# Master Catalog

AlphaWire

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# Make Alpha Wire Your First Choice for Reliable Performance

**No matter how demanding the application or environment, you want a cable with the performance and reliability to put your mind at ease. For more than 85 years, Alpha Wire has engineered wire and cable that excel in taming tough applications. From the harsh environment of a factory floor to critical controls on an offshore oil rig, Alpha Wire products work reliably day-in and day-out.**

### The industry-leading brands you trust

Today's engineers count on Alpha's industry-leading branded products for virtually every application. From telecommunications and factory automation, to medical equipment and wind turbines, you can count on Alpha Wire cable, wire, tubing, and accessories to work the first time, every time.

Whether it's a standard cable solution or a one-of-a-kind specialized design, Alpha's branded products offer decades of proven performance, superior construction, and manufacturing excellence.

### Proven in the real world

We design and manufacture every cable to meet the critical demands of real-world applications. Using premium materials, advanced manufacturing, and world-class quality control, we manufacture every cable knowing its operation is critical to an application's success.

### Built to last

Every inch of our cable is given the exact same attention to detail, so you get a cable that goes the distance. With Alpha Wire, you know you're getting wire, cable, and heat-shrink tubing with uniform construction and consistent performance characteristics.

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# Cable Finder Guide

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## 32 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | C&C, Hi-Fi Stereo | PVC | — | 200 | 1101 | 3 - 4 | 368 |

## 30 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Braid | Audio/Video | PE | PVC | 300 | M3601 | 1 | 157 |
| Unshielded | C&C, Hi-Fi Stereo | PVC | — | 200 | 1101 | 2 - 3 | 368 |
| Unshielded | Flat Cable, 0.025" CL | PVC | — | 150 | 3582 | 26 - 60 | 374 |

## 28 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Flat Cable, 0.050" CL | PVC | — | 300 | 3580 | 9 - 64 | 371 |
| | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86002 | 2 - 25 | 115 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5920 | 2 - 8 | 32 |
| Foil, Overall | Flat Cable, 0.050 CL, Jacketed | PVC | PVC | 150 | 3590 | 10 - 26 | 373 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5926 | 2 - 8 | 38 |
| Braid | C&C | PVC | PVC | 600 | 3302 | 2 - 20 | 320 |
| | C&C, Miniature Shielded | PVC | PVC | 200 | 1120 | 2 - 4 | 365 |
| | Control | PVC | PVC | 600 | M1411 | 1 - 12 | 188 |
| Foil + Braid | C&C | SR-PVC | PVC | 300 | 3463 | 3 - 50 | 336 |
| | C&C | FPP | PVC | 300 | 3483 | 3 - 25 | 337 |
| | Computer | SR-PVC | PVC | 300 | M2403 | 3 - 50 | 224 |
| | Flat Cable, 0.050" CL, Round to Flat | PVC | PVC | 300 | 3585 | 25 - 50 | 372 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5932 | 2 - 8 | 44 |
| Foil, Overall/ Spiral or Foil/Braid | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86002CY | 2 - 25 | 116 |

| Multipair | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Pairs** | **Page** |
| Foil, Overall | Xtra-Guard 1 | PVC | PVC | 300 | 5938 | 2 - 6 | 52 |
| Foil + Braid | C&C | SR-PVC | PVC | 300 | 3472C | 2 - 25 | 350 |
| | C&C, Low Cap. | PE | PVC | 300 | 6390 | 2 - 31 | 352 |
| | C&C, Low Cap. | FPP | PVC | 300 | 3492C | 2 - 25 | 354 |
| | Computer | FPP | PVC | 300 | M2487 | 2 - 25 | 234 |
| | Computer, Low Cap. | PE | PVC | 300 | M3970 | 2 - 31 | 236 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5943 | 2 - 6 | 54 |
| Foil, Overall/ Spiral or Foil/Braid | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86401CY | 1 - 14 | 117 |


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## 26 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Silver Satin Telephone | PP | PVC | 150 | 1604 | 4 - 8 | 369 |
| | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86102 | 2 - 25 | 115 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5666 | 2 - 15 | 32 |
| Foil, Overall | Xtra-Guard 1 | PVC | PVC | 300 | 5674 | 2 - 15 | 38 |
| Foil, Overall/Spiral or Foil, Overall/Braid | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86102CY | 2 - 25 | 116 |
| Braid | C&C | PVC/Nylon | PVC | 600 | 3200 | 1 - 4 | 321 |
| | Control | PVC | PVC | 600 | M1421 | 1 - 3 | 188 |
| | High Temperature | PTFE | PTFE | 600 | M1201 | 1 - 4 | 258 |
| Spiral | C&C, Microphone | PE | PVC | 1000 | 1702 | 1 | 327 |
| | Microphone | PE | PVC | 1000 | M3633 | 1 | 157 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5682 | 2 - 15 | 44 |

| Multipair | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Pairs** | **Page** |
| Foil, Overall | Xtra-Guard 1 | PVC | PVC | 300 | 5690 | 2 - 6 | 52 |
| Foil, Overall/Spiral or Foil, Overall/Braid | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86501CY | 1 - 14 | 117 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5695 | 2 - 6 | 54 |

## 25 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Braid | C&C, Audio | PE | PVC | 600 | 1772 | 4 | 328 |
| Foil, Overall and Ind. Pair | C&C | PE | PVC | 400 | 2468 | 2 + 1 pr | 349 |

## 24 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Audio/Video | SR-PVC | PVC | 300 | M38902 | 2 - 50 | 161 |
| | C&C | IRR PVC | PVC | 300 | 6622 | 2 - 4 | 312 |
| | Computer | SR-PVC | PVC | 300 | 882402 | 2 - 6 | 218 |
| | Computer | SR-PVC | PVC | 300 | M4501 | 7 - 37 | 219 |
| | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86202 | 2 - 25 | 115 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87003 | 3 - 7 | 119 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5012C | 2 - 50 | 32 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5201 | 2 - 37 | 35 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25012 | 2 -25 | 58 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45012 | 2 - 25 | 80 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55012 | 2 - 12 | 95 |
| Foil, Overall | Audio/Video | PE | PVC | 300 | M3222 | 2 - 4 | 152 |
| | Audio/Video | PE | PVC | 300 | M13222 | 2 | 166 |
| | Audio/Video | SP-PVC | PVC | 300 | M39024 | 3 - 50 | 166 |
| | Audio/Video | PP | PVC | 300 | M14328 | 2 | 170 |
| | C&C | PE | PVC | 300 | 2400C | 2 | 314 |
| | C&C | PVC | PVC | 300 | 1212C | 2 - 50 | 317 |
| | C&C | SR-PVC | PVC | 300 | 6300/3 | 3 - 50 | 318 |
| | C&C, Plenum | PVC | PVC | 300 | 58401 | 2 - 25 | 363 |


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## 24 AWG

### Multiconductor

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Foil, Overall | Computer | PVC | PVC | 300 | 1012405 | 5 - 9 | 222 |
| | Computer | SR-PVC | PVC | 300 | M4602 | 2 - 50 | 223 |
| | Plenum | PVC | PVC | 300 | M244837 | 2 - 4 | 179 |
| | Plenum | FEP | FEP | 300 | M64837 | 2 - 15 | 182 |
| | Plenum | FEP | PVC | 300 | | | |
| | Security/Data | PVC | PVC | 300 | M239023 | 2 - 4 | 175 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5092C | 2 - 70 | 38 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5399 | 3 -27 | 41 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25092 | 2 -25 | 61 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35491 | 1 - 4 | 77 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45092 | 2 -25 | 83 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55092 | 2 - 12 | 97 |
| Braid | Audio/Video | PE | PVC | 300 | M1102 | 2 - 6 | 146 |
| | C&C | PVC/Nylon | PVC | 600 | 3210 | 1 - 4 | 321 |
| | C&C | IRR PVC | PVC | 600 | 7622 | 2 - 4 | 325 |
| | C&C | PTFE | FEP | 600 | 2831 | 1 - 3 | 331 |
| | C&C | TFE | Fiberglass | 600 | 2811 | 1 - 7 | 332 |
| | C&C | PTFE | PTFE | 600 | 2821 | 1 - 6 | 334 |
| | C&C, Microphone | PE | PVC | 3500 | 1703 | 1 | 327 |
| | Control | PVC | PVC | 600 | M1431 | 1 - 3 | 188 |
| | High Temperature | PTFE | PTFE | 600 | 24RC2S06 | 2 - 4 | 256 |
| | High Temperature | ETFE | ETFE | 600 | 275002402 | 2 | 257 |
| | High Temperature | PTFE | PTFE | 600 | M1211 | 1 - 4 | 258 |
| | High Temperature | PTFE | FEP | 600 | 72402 | 2 | 260 |
| | Microphone | PE | PVC | 3500 | M3605 | 1 | 157 |
| Foil + Braid | C&C | SR-PVC | PVC | 300 | 6327 | 3 - 50 | 335 |
| | C&C, Low Cap. | FPE | PVC | 300 | 6351 | 3 - 37 | 339 |
| | Computer, Low Cap. | FPE | PVC | 300 | M2456 | 3 - 37 | 228 |
| | Computer | SR-PVC | PVC | 300 | M2438 | 3 - 50 | 225 |
| | Computer | SR-PVC | PVC | 300 | M5500 | 5 - 60 | 227 |
| Spiral | C&C, Microphone | PE | PVC | 1000 | 1705 | 1 | 327 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87003CY | 3 - 7 | 121 |
| | Microphone | PE | PVC | 1000 | M3635 | 1 | 157 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5112C | 2 - 50 | 44 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5300C | 5 - 48 | 47 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25112 | 2 - 50 | 64 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45112 | 2 - 25 | 86 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55112 | 2 - 12 | 99 |
| Foil, Overall/Spiral or Foil, Overall/Braid | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86202CY | 2 - 25 | 116 |

### Multipair

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Pairs | Page |
|---|---|---|---|---|---|---|---|
| Unshielded | Xtra-Guard 1 | PVC | PVC | 300 | 5261C | 1 - 77 | 50 |
| Foil, Overall | C&C | LSZH | LSZH | 300 | 5471L | 1 - 10 | 307 |
| | C&C | SR-PVC | PVC | 300 | 5471 | 1 - 50 | 341 |
| | C&C, Low Cap. | HDPE | PVC | 300 | 6083C | 3 - 4 | 345 |
| | C&C, Low Cap. | PE | PVC | 300 | 6301 | 6 - 12.5 | 346 |
| | C&C, Low Cap. | FPP | PVC | 300 | 6202C | 2 - 25 | 347 |
| | Computer, Low Cap. | FPP | PVC | 300 | M39249 | 2 - 27 | 233 |



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**Multipair**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Pairs | Page |
|---|---|---|---|---|---|---|---|
| Foil, Overall | C&C, Low Cap., Plenum | FEP | PVDF | 150 | 58902 | 2 - 12.5 | 366 |
| | C&C, Mid Cap., Plenum | FEP | PVDF | 150 | 58802 | 2 - 12.5 | 366 |
| | C&C, Plenum | PVC | PVC | 300/150 | 57602 | 2 - 6 | 365 |
| | Computer | SR-PVC | PVC | 300 | M13190 | 1 - 50 | 231 |
| | Plenum | FEP | FEP | 300 | M613190 | 1 - 5 | 186 |
| | Plenum | FEP | PVC | 300 | M52893 | 1 - 12.5 | 185 |
| | Security/Data | PVC | PVC | 300 | M213191 | 2 - 4 | 178 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5491C | 1 - 27 | 52 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25491 | 1 - 27 | 67 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45491 | 1 - 27 | 90 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55491 | 1 - 11 | 102 |
| Foil, Ind. Pairs | C&C, Low Cap., Plenum | FEP | PVDF | 150 | 58602 | 2 - 4 | 366 |
| | C&C | PE | PVC | 300 | 6385 | 3 - 25 | 360 |
| | C&C | FPP | PVC | 300 | 6073C | 3 - 27 | 370 |
| | Plenum | FEP | PVDF | 300 | M42891 | 2 - 18 | 187 |
| Foil + Braid | C&C | SR-PVC | PVC | 300 | 6362 | 2 - 25 | 351 |
| | C&C, Low Cap. | PE | PVC | 300 | 6401 | 2 - 25 | 353 |
| | C&C, Low Cap. | FPP | PVC | 300 | 6222C | 2 - 25 | 355 |
| | Computer | SR-PVC | PVC | 300 | M3446 | 2 - 15 | 237 |
| | Computer | SR-PVC | PVC | 300 | M5650 | 5 - 37 | 232 |
| | Computer | FPP | PVC | 300 | M3420 | 2 - 25 | 234 |
| | Computer, Low Cap. | FPP | PVC | 300 | M3475 | 2 - 25 | 235 |
| | Computer, Low Cap. | PE | PVC | 300 | M3993 | 1 - 25 | 236 |
| Foil + Braid, Foil on Ind. Pairs | C&C, Low Cap. | FPE | PVC | 300 | 6316 | 2 - 25 | 362 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5271C | 1 - 51 | 54 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5330C | 5 - 37 | 56 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25271 | 1 - 19 | 69 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35272 | 2 | 78 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45271 | 1 - 19 | 92 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55271 | 1 - 12 | 103 |
| Foil, Overall/Spiral or Foil, Overall/Braid | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86601CY | 1 - 14 | 118 |

## 24 + 22 AWG

**Multiconductor**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Unshielded + Foil | Audio/Video | PVC/PE | PVC | 300 | M14477 | 6 - 10 | 172 |

## 23 AWG

**Multiconductor**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Braid | C&C, Audio | PE | PVC | 600 | 1771 | 2 | 328 |

## 22 AWG

**Multiconductor**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Unshielded | Audio/Video | PVC | PVC | 300 | M13302 | 2 - 50 | 143 |
| | Audio/Video | SR-PVC | PVC | 300 | M33302 | 2 - 60 | 161 |
| | C&C | LSZH | LSZH | 300 | 1172L | 2 - 10 | 306 |
| | C&C | PVC | PVC | 300 | 1172C | 2 - 60 | 308 |
| | C&C | IRR PVC | PVC | 300 | 6632 | 2 - 4 | 312 |
| | Computer | SR-PVC | PVC | 300 | 882202 | 2 -60 | 218 |
| | Computer | SR-PVC | PVC | 300 | M4508 | 2 - 37 | 219 |
| | Control | PVC | PVC | 300 | M39071 | 2 - 3 | 199 |

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|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Security/Data | PVC | PVC | 300 | M213302 | 2 - 8 | 174 |
| | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86302 | 2 - 25 | 115 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87103 | 3 - 7 | 119 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5002C | 2 - 60 | 33 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5210 | 2 - 37 | 35 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5402 | 2 - 19 | 36 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25002 | 2 - 25 | 58 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35002 | 2 - 15 | 72 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45002 | 2 - 25 | 80 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55002 | 2 - 12 | 95 |
| Foil, Overall | Audio/Video | PE | PVC | 300 | M3226 | 2 - 4 | 152 |
| | Audio/Video | PE | PVC | 300 | M13226 | 2 - 3 | 166 |
| | Audio/Video | PVC | PVC | 300 | M13229 | 2 | 167 |
| | Audio/Video | PP | PVC | 300 | M4325 | 2 | 170 |
| | C&C | PE | PVC | 300 | 2401C | 2 - 4 | 314 |
| | C&C | PP | PVC | 300 | 2460C | 2 - 4 | 316 |
| | C&C | PVC | PVC | 300 | 1292C | 2 - 50 | 317 |
| | C&C, Plenum | PVC | PVC | 300 | 58113 | 3 - 25 | 363 |
| | Computer | SR-PVC | PVC | 300 | M4633 | 2 - 50 | 223 |
| | Control | PVC | PVC | 300 | M39113 | 2 - 3 | 202 |
| | Plenum | PVC | PVC | 300 | M244800 | 2 - 10 | 179 |
| | Plenum | FEP | PVDF | 300 | M413226 | 2 | 181 |
| | Plenum | FEP | FEP | 300 | M64800 | 2 - 15 | 182, 183 |
| | Security/Data | PVC | PVC | 300 | M113226 | 2 - 3 | 175 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5192C | 2 - 70 | 39 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5580 | 2 - 37 | 41 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5410 | 2 - 12 | 42 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25192 | 2 - 50 | 61 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35192 | 2 - 60 | 73 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45192 | 2 - 25 | 83 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55192 | 2 - 12 | 97 |
| Foil, Overall/Spiral or Foil, Overall/Braid | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86302CY | 2 - 25 | 116 |
| Braid | Audio/Video | PE | PVC | 300 | M1112 | 2 - 8 | 146 |
| | Audio/Video | PVC | PVC | 300 | M3202 | 2 - 4 | 164 |
| | C&C | PVC/Nylon | PVC | 600 | 3220 | 1 - 8 | 321 |
| | C&C | PVC | PVC | 300 | 1735 | 1 - 4 | 323 |
| | C&C | IRR PVC | PVC | 600 | 7631 | 2 - 4 | 325 |
| | C&C | PTFE | FEP | 600 | 2834 | 1 - 3 | 331 |
| | C&C | TFE | Fiberglass | 600 | 2814/2 | 2 - 6 | 332 |
| | C&C | PTFE | PTFE | 600 | 2824 | 1 - 6 | 334 |
| | C&C, Microphone | PE | PVC | 1000 | 1710 | 2 | 327 |
| | Control | PVC | PVC | 600 | M1441 | 1 - 10 | 189 |
| | High Temperature | PTFE | PTFE | 600 | 22RC2S06 | 2 - 4 | 256 |
| | High Temperature | ETFE | ETFE | 600 | 275002201 | 1 - 4 | 257 |
| | High Temperature | PTFE | PTFE | 600 | M1221 | 1 - 4 | 258 |
| | High Temperature | PTFE | FEP | 600 | 72203 | 3 | 259 |
| | Microphone | PVC | PVC | 300 | M14461 | 2 | 158 |
| Foil + Braid | C&C | SR-PVC | PVC | 300 | 6339 | 3 - 50 | 338 |
| | Computer | SR-PVC | PVC | 300 | M2473 | 3 - 50 | 226 |
| | Computer | SR-PVC | PVC | 300 | M5509 | 5 - 60 | 227 |



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# Cable Finder Guide

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## 22 AWG

### Multiconductor

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Spiral | C&C | PVC | PVC | 300 | 2254 | 1 - 6 | 319 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87103CY | 3 - 7 | 121 |
| | Audio/Video | PVC | PVC | 300 | M3261 | 1 - 6 | 162 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 600 | 5504 | 4 - 12 | 48 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25102 | 2- 50 | 64 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35102 | 2 - 15 | 76 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45102 | 2 - 25 | 86 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55102 | 2 - 12 | 99 |
| Unshielded + Braid | C&C | PVC | PVC | 300 | 1243 | 3 - 5 | 313 |
| Unshielded/Foil | Audio/Video | PVC | PVC | 300 | M4475 | 3 - 4 | 171 |
| Unshielded/Foil | Audio/Video | PP | PVC | 300 | M14474 | 2 | 171 |

### Multipair

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Pairs | Page |
|---|---|---|---|---|---|---|---|
| Unshielded | Audio/Video | PVC | PVC | 300 | M13001 | 1 - 27 | 150, 151 |
| | C&C | PVC | PVC | 300 | 1300C | 1 - 27 | 340 |
| | Security/Data | PVC | PVC | 300 | M2210 | 2 - 4 | 176 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5021C | 1 - 15 | 50 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55201 | 1 - 12 | 101 |
| Foil, Overall | C&C | PVC | PVC | 300 | 5902C | 2 - 19 | 342 |
| | C&C | PVC | PVC | 150 | 2211C | 1 - 27 | 343 |
| | C&C | PVC | PVC | 300 | 6417 | 1 - 51 | 344 |
| | C&C | FPP | PVC | 300 | 6072C | 2 | 370 |
| | C&C, Low Cap. | FPP | PVC | 300 | 6212C | 2 - 25 | 347 |
| | Computer | SR-PVC | PVC | 300 | M4779 | 1 - 27 | 231 |
| | Computer | PVC | PVC | 300 | M3191 | 51, 102 | 230 |
| | Computer | PP | PVC | 300 | M3190 | 38 | 231 |
| | Control | PVC | PVC | 300 | M39130 | 2 - 51 | 201 |
| | Fieldbus, High-Speed | FPO | PVC | 300 | 6461 | 1 | 300 |
| | Fieldbus, Type B | PO | PVC | 300 | 6460 | 1 | 299 |
| | Instrumentation | PVC | PVC | 300 | 5610B2201 | 1 | 204 |
| | Instrumentation | PVC | PVC | 300 | 5640B2201 | 1 | 210 |
| | Security/Data | PVC | PVC | 300 | M213222 | 2 - 4 | 178 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5481C | 1 - 27 | 53 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25481 | 1 - 19 | 67 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35481 | 1 - 5 | 77 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45481 | 1 - 15 | 90 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55481 | 1 - 12 | 102 |
| Foil, Ind. Pairs | Audio/Video | PP | PVC | 300 | M39039 | 6 - 15 | 154 |
| | C&C | LSZH | LSZH | 300 | 2466L | 2 - 12 | 307 |
| | C&C | PVC | PVC | 300 | 6052C | 2 - 27 | 356 |
| | C&C | PP | PVC | 300 | 6010C | 3 - 27 | 357 |
| | C&C | PVC | PVC | 300 | 6434 | 2 - 51 | 358 |
| | Control | PVC | PVC | 300 | M39147 | 2 - 51 | 200 |
| | Plenum | PVC | PVC | 300 | M24473 | 2 - 6 | 184 |
| | Security/Data | PVC | PVC | 300 | M213102 | 2 - 6 | 177 |
| Foil, Overall and Pairs | C&C, Mid Cap., Plenum | FEP | PVDF | 150 | 58612 | 2 - 6 | 367 |
| Foil, Overall/Spiral or Foil, Overall/Braid | Xtra-Guard Continuous Flex, Data | PVC | PVC | 300 | 86701CY | 1 - 14 | 118 |
| Foil + Braid | C&C | SR-PVC | PVC | 300 | 6373 | 2 - 25 | 351 |
| | Computer | SR-PVC | PVC | 300 | M5660 | 5 - 37 | 232 |
| | Computer | SR-PVC | PVC | 300 | M3433 | 2 - 25 | 237 |
| | PROFIBUS-DP | HDPE | PVC | 300 | 6462 | 1 | 301 |
| | RS-485 | HDPE | PVC | 600 | 6453 | 1 - 4 | 302 |

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## 22 AWG

| Multipair | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Pairs** | **Page** |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5121C | 1 - 27 | 55 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5340C | 2 - 37 | 56 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25121 | 1 - 15 | 69 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35121 | 1 - 9 | 78 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45121 | 1 - 19 | 92 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55121 | 1 - 12 | 103 |

## 22 AWG

| Triads | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Foil | Instrumentation | PVC | PVC | 300 | 5640B2201 | 1 | 210 |

## 22 AWG + 18 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Audio/Video | PVC | PVC | 300 | M4406 | 6 | 173 |
| Unshielded | C&C | PVC | PVC | 300 | 1826C | 6 - 8 | 313 |

## 20 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Audio/Video | PVC | PVC | 300 | M13404 | 2 - 15 | 143 |
| | Audio/Video | PVC | PVC | 300 | M33402 | 2 - 19 | 159 |
| | C&C | LSZH | LSZH | 300 | 1895L | 2 - 6 | 306 |
| | C&C | PVC | PVC | 300 | 1895C | 2 - 15 | 309 |
| | C&C | IRR PVC | PVC | 300 | 6642 | 2 - 4 | 312 |
| | Computer | PVC | PVC | 300 | 882002 | 2 - 15 | 216 |
| | Computer | SR-PVC | PVC | 300 | M4517 | 2 - 37 | 219 |
| | Control | PVC | PVC | 300 | M39073 | 2 - 3 | 199 |
| | Security/Data | PVC | PVC | 300 | M213402 | 2 - 4 | 174 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85003 | 3 - 34 | 111 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65002 | 2 - 25 | 106 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87203 | 3 - 7 | 121 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5052C | 2 - 50 | 33 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5220 | 2 - 37 | 35 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5413 | 2 - 25 | 36 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25052 | 2 - 70 | 58 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35052 | 2 - 15 | 72 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45052 | 2 - 15 | 80 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55052 | 2 - 12 | 95 |
| Foil, Overall | Audio/Video | PP | HDPE | 300 | M39047 | 2 - 15 | 148 |
| | Audio/Video | PE | PVC | 300 | M3232 | 2 - 4 | 152 |
| | Audio/Video | PE | PVC | 300 | M13232 | 2 - 3 | 167 |
| | Audio/Video | PVC | PVC | 300 | M14429 | 2 | 169 |
| | C&C | PE | PVC | 300 | 2411C | 2 - 4 | 314 |
| | C&C | PE | PVC | 300 | 1243/3C | 3 | 316 |
| | C&C | PVC | PVC | 300 | 2465C | 4 | 316 |
| | C&C, Plenum | PVC | PVC | 300 | 58421 | 2 - 6 | 363 |
| | Computer | PVC | PVC | 300 | M4660 | 2 - 50 | 220 |
| | Control | PVC | PVC | 300 | M39115 | 2 - 3 | 202 |



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| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Foil, Overall | Plenum | PVC | PVC | 300 | M244816 | 2 - 4 | 179 |
| | Plenum | FEP | FEP | 300 | M64816 | 2 - 10 | 183 |
| | Security/Data | PVC | PVC | 300 | M113232 | 2 - 3 | 175 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5462C | 2 - 50 | 39 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5560 | 2 - 19 | 41 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5420 | 2 - 12 | 42 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25462 | 2 - 50 | 61 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35462 | 2 - 25 | 73 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45462 | 2 - 40 | 83 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55462 | 2 - 12 | 97 |
| Braid | Audio/Video | PE | PVC | 300 | M1122 | 2 - 20 | 146 |
| | Audio/Video | PVC | PVC | 300 | M3206 | 2 - 12 | 164 |
| | C&C | PVC/Nylon | PVC | 600 | 3230 | 10 4 | 322 |
| | C&C | PVC | PVC | 300 | 1741C | 2 - 4 | 323 |
| | C&C | IRR PVC | PVC | 600 | 7661 | 2 - 4 | 325 |
| | C&C | PE | PVC | 600 | 1712 | 2 - 20 | 329 |
| | C&C | PTFE | FEP | 600 | 2837/2 | 2 - 3 | 331 |
| | C&C | TFE | Fiberglass | 600 | 2817/2 | 2 - 6 | 332 |
| | C&C | PTFE | PTFE | 600 | 2827 | 1 - 6 | 334 |
| | C&C, Microphone | PE | PVC | 4000/1000 | 1706 | 1 - 2 | 327 |
| | Control | PVC | PVC | 600 | M1451 | 1 - 4 | 189 |
| | High Temperature | PTFE | PTFE | 600 | 20RC2S06 | 2 - 4 | 256 |
| | High Temperature | ETFE | ETFE | 600 | 275002001 | 1 - 4 | 257 |
| | High Temperature | PTFE | PTFE | 600 | M1231 | 1 - 4 | 258 |
| | High Temperature | PTFE | FEP | 600 | 72001 | 1 | 260 |
| | Microphone | PE | PVC | 4000 | M3611 | 1 | 157 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65003CY | 3 - 25 | 109 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85003CY | 3 - 25 | 113 |
| Foil + Braid | Computer | SR-PVC | PVC | 300 | M5518 | 5 - 60 | 227 |
| | Computer | PVC | PVC | 300 | M5360 | 2 - 50 | 229 |
| Spiral | C&C | PVC | PVC | 300 | 2256 | 1 - 6 | 319 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87203CY | 3 - 7 | 121 |
| | Audio/Video | PVC | PVC | 300 | M3271 | 1 - 6 | 162 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5152C | 2 - 60 | 45 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5320 | 4 - 37 | 47 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5514 | 4 - 19 | 48 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25152 | 2 - 50 | 64 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35152 | 2 - 15 | 76 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45152 | 2 - 25 | 86 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55152 | 2 - 12 | 99 |
| Unshielded/Foil | Audio/Video | PVC | PVC | 300 | M4452 | 4 | 171 |

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**Multipair**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Pairs | Page |
|---|---|---|---|---|---|---|---|
| Unshielded | Audio/Video | PVC | PVC | 300 | M13063 | 3 - 15 | 151 |
| | C&C | PVC | PVC | 300 | 1317C | 2 - 19 | 340 |
| | Instrumentation | PVC | PVC | 300 | M9500010 | 1 | 203 |
| | Security/Data | PVC | PVC | 300 | M2222 | 2 - 6 | 176 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5282C | 2 - 12 | 51 |
| Foil, Overall | C&C | SR-PVC | PVC | 300 | 6416 | 2 | 341 |
| | C&C, Plenum | PVC | PVC | 300/150 | 57632 | 2 - 6 | 362 |
| | Computer | PVC | PVC | 300 | M4785 | 2 - 19 | 230 |
| | Instrumentation | PVC | PVC | 300 | M9520010 | 1 | 204 |
| | Instrumentation | PVC/Nylon | PVC | 600 | 5616B2001 | 1 | 205 |
| | Security/Data | PVC | PVC | 300 | M213202 | 2 - 6 | 178 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5452C | 2 - 19 | 53 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25452 | 2 - 15 | 68 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35452 | 2 - 3 | 77 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45451 | 1 - 27 | 91 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55451 | 1 - 12 | 102 |
| Foil, Ind. Pairs | Audio/Video | PP | HDPE | 350 | M39051 | 3 - 6 | 149 |
| | Audio/Video | SR-PVC | PVC | 300 | M13142 | 2 | 154 |
| | Audio/Video | PE | PVC | 300 | M13143 | 3 - 15 | 155 |
| | Audio/Video | PP | PVC | 300 | M14604 | 4 | 156 |
| | C&C | PP | PVC | 300 | 6032C | 3 - 12 | 357 |
| | C&C, Direct Burial | PP | PE | 350 | 6314 | 3 - 6 | 359 |
| | Plenum | PVC | PVC | 300 | M243142 | 2 - 4 | 184 |
| | Security/Data | PVC | PVC | 300 | M213142 | 2 - 6 | 177 |
| Foil, Overall and Ind. Pairs | Instrumentation | PVC/Nylon | PVC | 300 | M9740020 | 2 -50 | 215 |
| Foil + Braid | Computer | SR-PVC | PVC | 300 | M5670 | 5 - 27 | 232 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5292C | 2 - 19 | 55 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5350C | 4 - 27 | 56 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25292 | 2 - 9 | 70 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45291 | 1 - 15 | 93 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55291 | 1 - 12 | 103 |

**Triads**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Triads | Page |
|---|---|---|---|---|---|---|---|
| Unshielded | Instrumentation | PVC | PVC | 300 | M9600010 | 1 | 209 |
| Foil, Overall | Instrumentation | PVC | PVC | 300 | M9520010 | 1 - 12 | 210 |
| | Instrumentation | PVC/Nylon | PVC | 300 | M9700020 | 2 - 50 | 214 |
| Foil, Overall and Ind. Pairs | Instrumentation | PVC | PVC | 300 | 5650B2004 | 4 - 12 | 211 |

## 20 AWG + 18 AWG

**Multiconductor**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Unshielded + Foil | Audio/Video | PVC | PVC | 300 | M13291 | 4 | 173 |

## 18 AWG

**Multiconductor**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Unshielded | Audio/Video | PVC | PVC | 300 | M13502 | 2 - 25 | 144 |
| | Audio/Video | PVC | PVC | 300 | M33502 | 2 - 25 | 159 |
| | C&C | PVC | PVC | 300 | 1897C | 2 - 25 | 309 |
| | C&C | IRR PVC | PVC | 300 | 6652 | 2 - 4 | 312 |
| | Computer | PVC | PVC | 300 | 881802 | 2 - 15 | 216 |



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**Multiconductor**

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Unshielded | Control | PVC/Nylon | PVC | 600 | M3800 | 2 - 37 | 191 |
| | Control | PVC/Nylon | PVC | 600 | M39056 | 2 | 194 |
| | Control | PVC | PVC | 300 | M39075 | 2 - 3 | 199 |
| | AWIS Series F Continuous Flex | PVC/Nylon | TPE | 600 | F18003 | 3 - 65 | 127 |
| | AWIS Series M Control | PVC/Nylon | PVC | 600 | M18103 | 3 -65 | 129 |
| | AWIS Series P Stationary Control | PVC/Nylon | TPE | 600 | MP181003 | 3 - 65 | 131 |
| | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1803R | 3 - 65 | 136 |
| | Security/Data | PVC | PVC | 300 | M213502 | 2 - 4 | 174 |
| | Solar | PVC/Nylon | PVC | 1000 | SPM1803 | 3 - 9 | 295 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85803 | 3 - 34 | 111 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85803CY | 3 - 25 | 113 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 658002 | 2 - 50 | 106 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87303 | 3 - 7 | 119 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5062C | 2 - 60 | 34 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5422 | 2 - 25 | 36 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25061 | 2 -25 | 59 |
| | Xtra-Guard 2 | PVC | PUR | 600 | 25422 | 2 - 12 | 60 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35062 | 2 - 15 | 72 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45062 | 2- 25 | 81 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45422 | 2 - 9 | 82 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55062 | 2 - 12 | 96 |
| Foil, Overall | Audio/Video | PE | PVC | 300 | M3242 | 2 - 4 | 152 |
| | Audio/Video | PE | PVC | 300 | M13242 | 2 - 3 | 167 |
| | Audio/Video | SR-PVC | PVC | 300 | M13244 | 4 | 167 |
| | C&C | PE | PVC | 300 | 2421C | 2 - 4 | 314 |
| | C&C, Plenum | PVC | PVC | 300 | 58431 | 2 - 6 | 364 |
| | Computer | PVC | PVC | 300 | M4690 | 2 - 40 | 220 |
| | Control | PVC/Nylon | PVC | 600 | M33800 | 2 - 19 | 195 |
| | Control | PVC/Nylon | PVC | 600 | M39109 | 2 | 197 |
| | Control | PVC | PVC | 300 | M39117 | 2 - 3 | 202 |
| | Plenum | PVC | PVC | 300 | M244825 | 2 - 4 | 180 |
| | Plenum | FEP | PVDF | 300 | M413242 | 2 | 181 |
| | Plenum | FEP | FEP | 300 | M64825 | 2 - 8 | 183 |
| | Security/Data | PVC | PVC | 300 | M113242 | 2 - 4 | 175 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5382C | 2 - 60 | 40 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5430 | 2 - 25 | 42 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25382 | 2 - 50 | 62 |
| | Xtra-Guard 2 | PVC | PUR | 600 | 25430 | 2 - 19 | 63 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35382 | 2 - 25 | 74 |
| | Xtra-Guard 3 | PVC | PE | 600 | 35430 | 2 -12 | 75 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45382 | 2 - 30 | 84 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45430 | 2 - 12 | 85 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55382 | 2 - 12 | 98 |
| Braid | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1803RCY | 3 - 49 | 138 |
| | Audio/Video | PE | PVC | 300 | M1142 | 2 - 6 | 147 |
| | Audio/Video | PVC | PVC | 300 | M3212 | 2 - 4 | 164 |
| | C&C | PVC/Nylon | PVC | 600 | 3240 | 1 - 4 | 322 |
| | C&C | PVC | PVC | 300 | 1745 | 1 - 4 | 323 |
| | C&C | IRR PVC | PVC | 600 | 7671 | 2 - 4 | 325 |
| | C&C | Rubber | Polychloroprene | 600 | 1450 | 2 - 6 | 330 |
| | C&C | TFE | Fiberglass | 600 | 2819 | 1 - 5 | 333 |

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| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Conductors | Page |
|---|---|---|---|---|---|---|---|
| Braid | C&C | PTFE | PTFE | 600 | 2829/2 | 2 - 4 | 335 |
| | Control | PVC | PVC | 600 | M1461 | 1 - 3 | 189 |
| | Control | PVC | PVC | 1000 | M1704 | 4 - 16 | 190, 326 |
| | High Temperature | PTFE | PTFE | 600 | 18RC2S06 | 2- 4 | 256 |
| | High Temperature | ETFE | ETFE | 600 | 275001801 | 1 - 2 | 257 |
| | High Temperature | PTFE | PTFE | 600 | M1241 | 1 - 4 | 259 |
| | High Temperature | PTFE | FEP | 600 | 71801 | 1 - 2 | 260 |
| | Solar | PVC/Nylon | PVC | 600 | SPM1803CY | 3 - 9 | 294 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65803CY | 3 - 25 | 109 |
| Foil + Braid | Computer | PVC | PVC | 300 | M5390 | 2 - 30 | 229 |
| | Industrial Series SF Servo Power | PVC | TPE | 600 | SF61118CY | 4 | 133 |
| Spiral | C&C | PVC | PVC | 300 | 2258 | 1 - 4 | 319 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87303CY | 3 - 7 | 121 |
| | Audio/Video | PVC | PVC | 300 | M3281 | 1 - 4 | 162, 163 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5162C | 2 - 40 | 46 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5522 | 2 - 19 | 48 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25162 | 2 - 40 | 65 |
| | Xtra-Guard 2 | PVC | PUR | 600 | 25522 | 2 - 9 | 66 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35162 | 2 - 15 | 76 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45162 | 2 - 30 | 87 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45522 | 2 - 12 | 88 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55162 | 2 -12 | 100 |

### Multipair

| Shielding | Type | Insulation | Jacket | Voltage | Part No. (Typ) | Pairs | Page |
|---|---|---|---|---|---|---|---|
| Unshielded | Audio/Video | PVC | PVC | 300 | M13081 | 1 - 19 | 133 |
| | C&C | PVC | PVC | 300 | 1131C | 1 - 19 | 340 |
| | Instrumentation | PVC | PVC | 300 | M9508010 | 1 | 203 |
| | Instrumentation | PVC/Nylon | PVC | 600 | 5606B1801 | 1 | 208 |
| | Security/Data | PVC | PVC | 300 | M2215 | 2 - 4 | 176 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5032C | 2 - 12 | 51 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45031 | 1 - 2 | 89 |
| Foil, Overall | C&C | PVC | PVC | 150 | 2241C | 1 - 19 | 343 |
| | C&C | PVC | PVC | 300 | 6427 | 2 - 15 | 344 |
| | Computer | PVC | PVC | 300 | 4799 | 2 - 19 | 230 |
| | Control | PVC | PVC | 300 | M39140 | 2 - 15 | 201 |
| | Fieldbus, Type A | PO | PVC | 300 | 6459 | 1 | 299 |
| | Instrumentation | PVC | PVC | 300 | M39140 | 2 - 15 | 183 |
| | Instrumentation | PVC/Nylon | PVC | 600 | M8528010 | 1 - 50 | 205 |
| | Instrumentation | PVC/Nylon | PVC | 600 | M9528010 | 1 | 204 |
| | Security/Data | PVC | PVC | 300 | M213182 | 2 - 4 | 178 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5373C | 3 - 6 | 53 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25372 | 2 - 12 | 68 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35372 | 2 - 6 | 77 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45371 | 1 - 19 | 91 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55371 | 1 - 9 | 102 |
| Foil, Ind. Pairs | Audio/Video | PE | PVC | 300 | M13173 | 3 - 15 | 155 |
| | C&C | PVC | PVC | 300 | 6062C | 2 - 15 | 355 |
| | C&C | PP | PVC | 300 | 6023C | 3 - 9 | 356 |
| | C&C | PVC | PVC | 300 | 6442 | 2 - 15 | 357 |
| | Control | PVC | PVC | 300 | M39157 | 2 - 15 | 200 |
| | DeviceNet, Thick and Thin | PVC/HDPE | PVC | 300 | 6451 | 2 | 298 |


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| Multipair | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Pairs** | **Page** |
| Foil, Ind. Pairs | Plenum | PVC | PVC | 300 | M243172 | 2 - 3 | 184 |
| | Security/Data | PVC | PVC | 300 | M213172 | 2 - 6 | 177 |
| Foil, Overall and Ind. Pairs | Instrumentation | PVC/Nylon | PVC | 600 | M8748020 | 2 - 50 | 207 |
| | Instrumentation | PVC/Nylon | PVC | 300 | M9748020 | 2 - 50 | 215 |
| | C&C, Mid Cap., Plenum | FEP | PVDF | 150 | 58632 | 2 - 3 | 367 |
| Foil + Braid | Industrial Twinax | PO | PVC | 600 | 6450 | 1 | 303 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5132C | 2 - 27 | 55 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25132 | 2 - 12 | 70 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45131 | 1 - 15 | 93 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55131 | 1 - 9 | 103 |

| Triads | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Triads** | **Page** |
| Unshielded | Instrumentation | PVC | PVC | 300 | M9608010 | 1 | 209 |
| Foil, Overall | Instrumentation | PVC | PVC | 300 | M9628010 | 1 | 210 |
| | Instrumentation | PVC/Nylon | PVC | 600 | M8628010 | 1 - 24 | 212 |
| | Instrumentation | PVC | PVC | 300 | M9708020 | 2 - 50 | 214 |
| Foil, Overall and Ind. Pairs | Instrumentation | PVC/Nylon | PVC | 600 | M8848020 | 2 - 24 | 213 |

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| Multiconductor | | | | | | | |
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| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Audio/Video | PVC | PVC | 300 | M13572 | 2 - 4 | 144 |
| | Audio/Video | PVC | PVC | 300 | M3704 | 4 - 15 | 145 |
| | Audio/Video | PVC | PVC | 300 | M33572 | 2 - 8 | 160 |
| | C&C | PVC | PVC | 300 | 1899C | 2 - 4 | 309 |
| | C&C | PVC | PVC | 600 | 1064 | 4 - 25 | 311 |
| | Computer | PVC | PVC | 300 | 881602 | 2 - 10 | 217 |
| | Control | PVC/Nylon | PVC | 600 | M3826 | 2 - 37 | 191 |
| | Control | PVC/Nylon | PVC | 600 | M39057 | 2 | 194 |
| | Control | PVC | PVC | 300 | M39077 | 2 - 3 | 199 |
| | AWIS Series F Continuous Flex | PVC/Nylon | TPE | 600 | F16003 | 3 - 65 | 127 |
| | AWIS Series M Control | PVC/Nylon | PVC | 600 | M161003 | 3 - 65 | 129 |
| | AWIS Series P Stationary Control | PVC/Nylon | TPE | 600 | MP161003 | 3 - 65 | 131 |
| | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1603R | 3 - 49 | 136 |
| | Security/Data | PVC | PVC | 300 | M213572 | 2 - 4 | 174 |
| | Solar | PVC/Nylon | PVC | 1000 | SPM1603 | 3 - 9 | 295 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85603 | 3 - 50 | 111 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85603CY | 3 - 34 | 113 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65602 | 2 - 50 | 106 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87403 | 3 - 7 | 120 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5072C | 2 - 50 | 34 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5434 | 4 - 25 | 37 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25072 | 2 - 25 | 59 |
| | Xtra-Guard 2 | PVC | PUR | 600 | 25432 | 2 - 19 | 60 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35072 | 2 - 15 | 72 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45072 | 2 - 25 | 81 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45432 | 2 - 9 | 82 |
| | Xtra-Guard 6 | FEP | FEP | 300 | 55072 | 2 - 12 | 96 |
| | Audio/Video | PVC | PVC | 300 | M13572 | 2 - 4 | 144 |

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| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Foil, Overall | Audio/Video | PE | PVC | 300 | M3247 | 2 - 3 | 153 |
| | Audio/Video | PE | PVC | 300 | M13247 | 2 - 3 | 168 |
| | C&C | PE | PVC | 300 | 2432C | 2 - 3 | 314 |
| | C&C, Plenum | PVC | PVC | 300 | 58142 | 2 - 4 | 364 |
| | Computer | PVC | PVC | 300 | M4720 | 2 -30 | 221 |
| | Control | PVC/Nylon | PVC | 600 | M33826 | 2 - 19 | 195 |
| | Control | PVC/Nylon | PVC | 600 | M39110 | 2 | 197 |
| | Control | PVC/Nylon | PVC | 600 | 7616/6 | 6 | 198 |
| | Control | PVC | PVC | 300 | M39119 | 2 - 3 | 202 |
| | Plenum | PVC | PVC | 300 | M244834 | 2 - 4 | 180 |
| | Plenum | FEP | FEP | 300 | M64834 | 2 - 4 | 183 |
| | Security/Data | PVC | PVC | 300 | M113247 | 2 - 3 | 175 |
| | Xtra-Guard 1 | PVC | PVC | 300 | 5362C | 2 - 40 | 40 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5440 | 2 - 15 | 43 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25362 | 2 - 50 | 62 |
| | Xtra-Guard 2 | PVC | PUR | 600 | 25440 | 2 - 15 | 63 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35362 | 2 - 25 | 74 |
| | Xtra-Guard 3 | PVC | PE | 600 | 35440 | 2 - 12 | 75 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45362 | 2 - 25 | 84 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45440 | 2 - 12 | 85 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55362 | 2 - 12 | 98 |
| | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1603RCY | 3 - 49 | 138 |
| Braid | Audio/Video | PE | PVC | 300 | M1162 | 2 - 4 | 147 |
| | Audio/Video | PVC | PVC | 300 | M3216 | 2 - 3 | 164 |
| | C&C | PVC/Nylon | PVC | 600 | 3245 | 1 - 4 | 322 |
| | C&C | PVC | PVC | 300 | 1748C | 2 - 3 | 323 |
| | C&C | Rubber | Polychloroprene | 600 | 1450/16 | 2 - 3 | 330 |
| | C&C | TFE | Fiberglass | 600 | 2820 | 1 - 4 | 333 |
| | C&C | PTFE | PTFE | 600 | 2826 | 1 - 4 | 335 |
| | Control | PVC | PVC | 600 | M1471 | 1 - 4 | 189 |
| | Control | PVC | PVC | 1000 | M1764 | 4 - 27 | 190, 326 |
| | High Temperature | PTFE | PTFE | 600 | M1251 | 1 - 4 | 259 |
| | High Temperature | PTFE | FEP | 600 | 71602 | 2 | 260 |
| | Solar | PVC/Nylon | PVC | 600 | SPM1603CY | 3 - 9 | 294 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65603CY | 3 - 25 | 109 |
| Foil + Braid | Computer | PVC | PVC | 300 | M5420 | 2 - 25 | 229 |
| | Flexible Motor Supply | PVC/Nylon | PVC | 600 | 5660 | 4 | 304 |
| | AWIS Series SF Servo Composite | PVC | TPE | 600 | SF61220CY | 4 + 2 pr | 133 |
| | AWIS Series SF Servo Power | PVC | TPE | 600 | SF61116CY | 4 | 133 |
| | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16316/V16016 | 3, 4, 4 + 1 pr | 134, 135 |
| Spiral | C&C | PVC | PVC | 300 | 2260 | 2 - 3 | 319 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87403CY | 3 - 7 | 122 |
| | Audio/Video | PVC | PVC | 300 | M3287 | 2 - 3 | 163 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 300 | 5172C | 2 - 25 | 46 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5532 | 2 - 19 | 49 |
| | Xtra-Guard 2 | PVC | PUR | 300 | 25172 | 2 - 40 | 65 |
| | Xtra-Guard 2 | PVC | PUR | 600 | 25532 | 2 - 19 | 66 |



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| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Supra-Shield Foil + Braid | Xtra-Guard 2 | PVC | PUR | 600 | 25542 | 2 - 12 | 66 |
| | Xtra-Guard 3 | PVC | PE | 300 | 35172 | 2 - 15 | 76 |
| | Xtra-Guard 4 | TPE | TPE | 300 | 45172 | 2 - 25 | 87 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45532 | 2 - 12 | 88 |
| | Xtra-Guard 5 | FEP | FEP | 300 | 55172 | 2 - 12 | 100 |
| **Multipair** | | | | | | | |
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Pairs** | **Page** |
| Unshielded | Instrumentation | PVC | PVC | 300 | M9506010 | 1 | 202 |
| | Instrumentation | PVC/Nylon | PVC | 600 | 5606B1601 | 1 | 208 |
| Foil, Overall | C&C | PE | PVC | 600 | 2471 | 1 | 348 |
| | Computer | PVC | PVC | 300 | M4799 | 2 - 6 | 230 |
| | Instrumentation | PVC | PVC | 300 | M9526010 | 1 | 204 |
| | Instrumentation | PVC/Nylon | PVC | 600 | M8526010 | 1 - 50 | 205 |
| Foil, Ind. Pairs | C&C, Mid Cap., Plenum | FEP | PVDF | 150 | 58642 | 2 - 3 | 367 |
| Foil, Overall and Ind. Pairs | Instrumentation | PVC/Nylon | PVC | 600 | M8746020 | 2 - 50 | 207 |
| | Instrumentation | PVC/Nylon | PVC | 300 | M9746020 | 2 - 50 | 215 |
| **Triads** | | | | | | | |
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Triads** | **Page** |
| Unshielded | Instrumentation | PVC | PVC | 300 | M9606010 | 1 | 209 |
| Foil, Overall | Instrumentation | PVC | PVC | 300 | M9626010 | 1 | 210 |
| | Instrumentation | PVC/Nylon | PVC | 600 | M8626010 | 1 - 24 | 212 |
| | Instrumentation | PVC/Nylon | PVC | 300 | M9706020 | 2 - 50 | 214 |
| Foil, Overall and Ind. Pairs | Instrumentation | PVC/Nylon | PVC | 600 | M8846020 | 2 - 24 | 213 |

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| Multiconductor | | | | | | | |
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| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Audio/Video | PVC | PVC | 300 | M13582 | 2 - 4 | 144 |
| | Audio/Video | PVC | PVC | 300 | M33582 | 2 - 3 | 160 |
| | C&C | PVC | PVC | 300 | 1891C | 2 - 3 | 310 |
| | C&C | PVC | PVC | 600 | 1274 | 4 - 12 | 311 |
| | Computer | PVC | PVC | 300 | 881403 | 3 - 5 | 217 |
| | Control | PVC/Nylon | PVC | 600 | M3845 | 2 - 37 | 191 |
| | Control | PVC/Nylon | PVC | 600 | M39058 | 2 | 194 |
| | Control | PVC | PVC | 300 | M39079 | 2 - 3 | 199 |
| | AWIS Series F Continuous Flex | PVC/Nylon | TPE | 600 | F14004 | 4 - 12 | 128 |
| | AWIS Series M Control | PVC/Nylon | PVC | 600 | M141004 | 4 - 25 | 130 |
| | AWIS Series P Stationary Control | PVC/Nylon | TPE | 600 | MP141004 | 4 - 25 | 132 |
| | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1403R | 3 - 12 | 136 |
| | Solar | PVC/Nylon | PVC | 1000 | SPM1403 | 3 - 9 | 295 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85403 | 4 - 7 | 111 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85404CY | 4 - 7 | 113 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65402 | 2 - 50 | 107 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87503 | 3 - 7 | 120 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5442 | 2 - 25 | 37 |
| | Xtra-Guard 2 | PVC | PUR | 600 | 25442 | 2 - 12 | 60 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45442 | 2 - 7 | 82 |

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|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Foil, Overall | Audio/Video | PE | PVC | 300 | M3249 | 2 | 153 |
| | Audio/Video | PE | PVC | 300 | M13249 | 2 | 168 |
| | C&C | PE | PVC | 300 | 2442C | 2 | 315 |
| | Control | PVC/Nylon | PVC | 600 | M33845 | 2 - 19 | 195 |
| | Control | PVC/Nylon | PVC | 600 | M39111 | 2 | 197 |
| | Control | PVC/Nylon | PVC | 600 | 7614/6 | 6 | 198 |
| | Control | PVC | PVC | 300 | M39121 | 2 - 3 | 202 |
| | Xtra-Guard 1 | PVC | PVC | 600 | 5450 | 2 - 12 | 43 |
| | Xtra-Guard 2 | PVC | PUR | 600 | 25450 | 2 - 15 | 63 |
| | Xtra-Guard 3 | PVC | PE | 600 | 35450 | 2 - 12 | 75 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45450 | 2 - 15 | 85 |
| Braid | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1403RCY | 3 - 12 | 138 |
| | Audio/Video | PVC | PVC | 300 | M33218 | 2 - 3 | 165 |
| | C&C | PVC | PVC | 300 | 1750 | 2 - 3 | 324 |
| | C&C | TFE | Fiberglass | 600 | 2804/2 | 1 - 2 | 333 |
| | Solar | PVC/Nylon | PVC | 600 | SPM1403CY | 3 - 9 | 294 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65403CY | 3 - 18 | 109 |
| Foil + Braid | Flexible Motor Supply | PVC/Nylon | PVC | 600 | 5661 | 4 | 304 |
| | AWIS Series SF Servo Composite | PVC | TPE | 600 | SF61221CY | 4 + 2 pr | 133 |
| | AWIS Series SF Servo Power | PVC | TPE | 600 | SF61114CY | 4 | 133 |
| | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16314/V16014 | 3, 4, 4 + 1 pr | 134, 135 |
| Spiral | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87503CY | 3 - 7 | 122 |
| | Audio/Video | PVC | PVC | 450 | M3289 | 2 - 3 | 163 |
| Supra-Shield Foil + Braid | Xtra-Guard 1 | PVC | PVC | 600 | 5542 | 2 - 19 | 49 |
| | Xtra-Guard 4 | TPE | TPE | 600 | 45542 | 2 - 9 | 88 |

| Multipair | | | | | | | |
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| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Pairs** | **Page** |
| Foil, Overall | C&C | PE | PVC | 600 | 2472 | 1 | 348 |
| | Instrumentation | PVC | PVC | 300 | M9524010 | 1 | 204 |
| | Instrumentation | PVC/Nylon | PVC | 600 | M8524010 | 1 - 50 | 206 |
| Foil, Overall and Ind. Pairs | Instrumentation | PVC/Nylon | PVC | 600 | M8744020 | 2 - 50 | 207 |

| Triads | | | | | | | |
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| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Triads** | **Page** |
| Foil, Overall | Instrumentation | PVC | PVC | 300 | M9624010 | 1 | 210 |
| | Instrumentation | PVC/Nylon | PVC | 600 | M8624010 | 1 - 24 | 212 |
| Foil, Overall and Ind. Pairs | Instrumentation | PVC/Nylon | PVC | 600 | M8844020 | 2 - 24 | 213 |

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| Multiconductor | | | | | | | |
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| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Audio/Video | PVC | PVC | 300 | M13590 | 2 | 144 |
| | Audio/Video | PVC | PVC | 300 | M33590 | 2 - 3 | 160 |
| | C&C | PVC | PVC | 300 | 1892C | 2 - 3 | 310 |
| | Computer | PVC | PVC | 300 | 881202 | 2 - 3 | 217 |
| | Control | PVC/Nylon | PVC | 600 | M3865 | 2 - 37 | 192 |



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| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Control | PVC/Nylon | PVC | 600 | M39059 | 2 | 194 |
| | Control | PVC | PVC | 300 | M39081 | 2 | 199 |
| | AWIS Series F Continuous Flex | PVC/Nylon | TPE | 600 | F12004 | 4 - 7 | 128 |
| | AWIS Series M Control | PVC/Nylon | PVC | 600 | M121004 | 4 - 7 | 130 |
| | AWIS Series P Stationary Control | PVC/Nylon | TPE | 600 | MP121004 | 4 - 7 | 132 |
| | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1203R | 3 - 7 | 137 |
| | Solar | PVC/Nylon | PVC | 1000 | SPM1203 | 3 - 9 | 295 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85204 | 4 - 7 | 112 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85204CY | 4 - 7 | 114 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65203 | 3 - 7 | 107 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87603 | 3 - 7 | 120 |
| Foil, Overall | Audio/Video | PE | PVC | 300 | M3250 | 2 | 153 |
| | Audio/Video | PE | PVC | 300 | M13250 | 2 | 168 |
| | C&C | PE | PVC | 300 | 2444C | 2 | 315 |
| | Control | PVC/Nylon | PVC | 600 | M33865 | 2 - 19 | 196 |
| | Control | PVC/Nylon | PVC | 600 | M39112 | 2 | 197 |
| | Control | PVC | PVC | 300 | M39123 | 2 | 202 |
| Braid | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1203RCY | 3 - 7 | 139 |
| | Audio/Video | PVC | PVC | 300 | M33220 | 2 - 3 | 165 |
| | C&C | PVC | PVC | 300 | 1760 | 2 - 3 | 324 |
| | C&C | TFE | Fiberglass | 600 | 2803/2 | 2 | 333 |
| | Solar | PVC/Nylon | PVC | 600 | SPM1203CY | 3 - 9 | 294 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65203CY | 3 - 5 | 110 |
| Foil + Braid | Flexible Motor Supply | PVC/Nylon | PVC | 600 | 5662 | 4 | 304 |
| | AWIS Series SF Servo Composite | PVC | TPE | 600 | SF61222CY | 4 + 2 pr | 133 |
| | AWIS Series SF Servo Power | PVC | TPE | 600 | SF61112CY | 4 | 133 |
| | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16312/ V16014 | 3, 4, 4 + 1 pr | 134, 135 |
| Spiral | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87603CY | 3 - 7 | 122 |

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| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Pairs** | **Page** |
| Foil, Overall | C&C | PE | PVC | 600 | 2473 | 1 | 348 |
| | Instrumentation | PVC | PVC | 300 | 5610B1201 | 1 | 204 |
| | Instrumentation | PVC/Nylon | PVC | 600 | 5616B1201 | 1 | 206 |

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| Unshielded | Control | PVC/Nylon | PVC | 600 | M3902 | 2 - 15 | 193 |
| | AWIS Series F Continuous Flex | PVC/Nylon | TPE | 600 | F10004 | 4 - 7 | 128 |
| | AWIS Series M Control | PVC/Nylon | PVC | 600 | M101004 | 4 - 7 | 130 |
| | AWIS Series P Stationary Control | PVC/Nylon | TPE | 600 | MP101004 | 4 - 7 | 132 |
| | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1003R | 3 - 7 | 137 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85104 | 4 - 7 | 112 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85104CY | 4 - 7 | 114 |


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|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65103 | 3 - 5 | 107 |
| | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87703 | 3 - 7 | 120 |
| Foil, Overall | Control | PVC/Nylon | PVC | 600 | M33902 | 2 - 12 | 196 |
| Braid | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM1003RCY | 3 - 7 | 139 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65103CY | 3 - 7 | 110 |
| Foil + Braid | Flexible Motor Supply | PVC/Nylon | PVC | 600 | 5663 | 4 | 304 |
| | AWIS Series SF Servo Composite | PVC | TPE | 600 | SF61223CY | 4 + 2 pr | 133 |
| | AWIS Series SF Servo Power | PVC | TPE | 600 | SF61110CY | 4 | 133 |
| | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16310/V16012 | 3, 4, 4 + 1 pr | 134, 135 |
| Spiral | Xtra-Guard Torsional Flex | TPE | PUR | 600 | 87703CY | 3 - 7 | 122 |

## 8 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | AWIS Series F Continuous Flex | PVC/Nylon | TPE | 600 | F08004 | 4 | 128 |
| | AWIS Series M Control | PVC/Nylon | PVC | 600 | M081004 | 4-5 | 130 |
| | AWIS Series P Stationary Control | PVC/Nylon | TPE | 600 | MP081004 | 4 - 7 | 132 |
| | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM0803R | 3 - 4 | 137 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85904 | 4 | 112 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85904CY | 4 | 114 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65904 | 4 - 5 | 107 |
| Braid | AWIS Series XM Flexible Control | PVC/Nylon | PVC | 600/1000 | XM0803RCY | 3 - 4 | 139 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65904CY | 4 | 110 |
| Foil + Braid | Flexible Motor Supply | PVC/Nylon | PVC | 600 | 5664 | 4 | 304 |
| | AWIS Series SF Servo Composite | PVC | TPE | 600 | SF61224CY | 4 + 2 pr | 133 |
| | AWIS Series SF Servo Power | PVC | TPE | 600 | SF61108CY | 4 | 133 |
| | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16308/ V16008 | 3, 4, 4 + 1 pr | 134, 135 |

## 6 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85704 | 4 | 112 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85704CY | 4 | 114 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65704 | 4 - 5 | 108 |
| Braid | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65704CY | 4 | 110 |
| Foil + Braid | Flexible Motor Supply | PVC/Nylon | PVC | 600 | 5665 | 4 | 304 |
| | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16306/ V16006 | 3, 4, 4 + 1 pr | 134, 135 |



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## 4 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85504 | 4 | 112 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85504CY | 4 | 114 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65504 | 4 - 5 | 108 |
| Braid | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65504CY | 4 | 110 |
| Foil + Braid | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16304/ V16004 | 3, 4, 4 + 1 pr | 134, 135 |

## 2 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Unshielded | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85304 | 4 | 112 |
| | Xtra-Guard Continuous Flex, Control | PVC | PVC | 600 | 85304CY | 4 | 114 |
| | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65304 | 4 - 5 | 108 |
| Braid | Xtra-Guard Standard Flex | PVC | PVC | 600 | 65304CY | 4 | 110 |
| Foil + Braid or Tape | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16302/ V16002 | 3, 4, 4 + 1 pr | 134, 135 |

## 1 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Tape | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16001 | 3 | 134, 135 |

## 1/0 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Tape | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16000 | 3 | 134, 135 |

## 2/0 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Tape | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16020 | 3 | 134, 135 |

## 3/0 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Tape | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16030 | 3 | 134, 135 |

## 4/0 AWG

| Multiconductor | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Shielding** | **Type** | **Insulation** | **Jacket** | **Voltage** | **Part No. (Typ)** | **Conductors** | **Page** |
| Tape | AWIS Series V VFD | XLPE | PVC | 600/1000 | V16040 | 3 | 134, 135 |

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- Xtra-Guard 2 – Abrasion resistant to withstand mechanical abuse
- Xtra-Guard 3 – Direct burial cable; no conduit needed
- Xtra-Guard 4 – Extreme temperatures; handles hot, cold, spills
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- Xtra-Guard Flex – Long-lasting cables rated up to 14 million flex cycles

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From the factory floor to process control, the Alpha Wire Industrial Series (AWIS) cable line is well suited to the widest range of industrial applications.

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- **Series P**
- **Series V**
- **Series M**
- **Series SF**
- **Series XM**

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- **Computer**
- **Instrumentation**
- **Thermocouple**
- **Control**
- **Plenum**
- **Coaxial**
- **Cords/cordsets**
- **High temperature**
- **Security & data**

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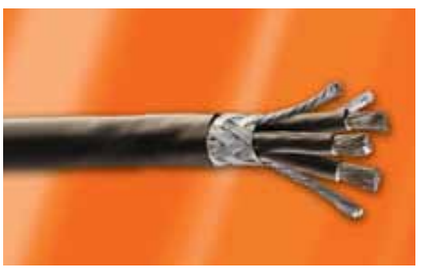

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- **Communication & control**
- **Low smoke, zero halogen**
- **Solar**
- **Industrial automation**
- **Flat cable**

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- **Dearborn bulk hook-up wire**
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- **Marine cable**
- **Marine heat-shrink tubing**

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- **Resistance wire**

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- **Shrink ratios from 2:1 to 6:1**
- **Cross-linked materials**
- **Shrink temperatures from 90°C to 250°C**
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- **Dual-wall constructions with inner adhesive lining for additional sealing**
- **Choice of standard and custom colors**

## FIT Wire Management

Bringing order to wire harnesses and cable routing means a system that is more reliable, easier to fabricate, and simpler to maintain. Organize, shield, and route cable assemblies and harnesses with our complete line of FIT wire management products in applications such as harnesses, routing, organizing, shielding, and grounding.

- **Sleeving**
- **Tubing**
- **Braid**
- **Lacing tape**
- **EMI tape**

## FIT Wire Accessories

From variable-setting heat guns for FIT tubing to our full range of wire management accessories, we can help you complete any installation reliably and neatly.

- **Heat guns**
- **Connectors**

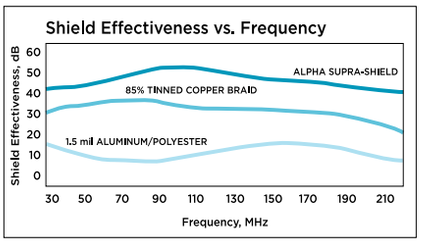
## Customs and Specials

Our capabilities go well beyond our cataloged parts. If you don't find what you need, visit our online Cable Design Center® or give us a call to discuss your needs for:

- **Custom designs**
- **Specials**
- **Unique packaging**
- **Legacy products**

## Xtra-Guard Shielding Options

Alpha Wire offers Xtra-Guard® cables in three shielding options to handle virtually any electrical environment.



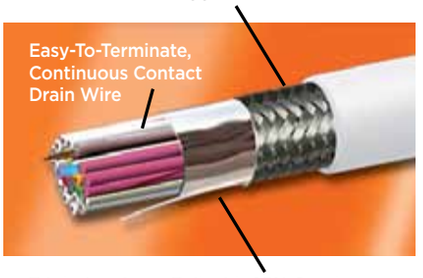

### Unshielded

Unshielded cables provide the smallest cable diameter for use in low-noise controlled environments.

### Foil shielded

Foil-shielded cables use a sturdy aluminum/polyester shield for moderate EMI needs, especially at lower frequencies. A tinned copper drain wire makes grounding the cable easy. Foil shields allow lighter weights and smaller cables.

70% Tinned Copper Braid




Triple-Laminate Foil with 25% Overlap

### Supra-Shield® (premium foil/braid) shielded

Alpha's exclusive Supra-Shield cables combine a triple-layer aluminum/polyester/aluminum foil with a tinned copper braid shield with tight 70% coverage. Supra-Shield offers exceptional EMI performance and flexibility to protect against noise and maintain overall system integrity. The combination of foil and braid offers better shielding effectiveness than either approach alone against both low- and high-frequency noise.

### Shielding for flex cables

Our high-flex shielding options include a double-jacket configuration with 85% braid coverage to achieve high shielding effectiveness while maintaining the desired flexibility. For torsional flex applications, we offer spiral wound shielding with 90% coverage.

85% – 90% Coverage Tinned Copper Braid

Double Jacket For Outstanding Flexing Performance



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# The Service You Deserve

**We have applied our expertise to creating service that equals our products. Nobody works harder or more diligently to make sure you get the cable you want, when you need it, backed by the service you deserve.**

## Logistics that defy logic

Need cable tomorrow? No problem. We maintain a large inventory and offer same-day shipping. Order today and receive your order tomorrow in many locations. Alpha Wire goes one step further: manufacturing custom cables to meet unique applications—offering specific conductor counts, shielding options, jacket materials, and versatile product designs. Our custom cable orders are often shipped in less than a week, once again giving you products with more convenience and less delay.

## Small put-ups: get what you need

We're geared to ship in small put-ups or large. With Alpha, you don't have to buy more cable than you need because of high minimum order requirements.

## Global reach

Encompassing more than 20,000 products and 9 product families available worldwide through more than 1500 distributor locations, Alpha delivers the industry's widest range and largest inventory of wire, cable, and tubing products.

## Application expertise

We understand your applications, from the needs of a machine tool cable to withstand coolants and extreme temperatures to the requirements of a wind turbine where robust reliability eliminates service calls.

We've helped companies successfully deploy applications in the frozen tundra, aboard wind- and water-swept offshore drilling rigs, and in the pristine environment of a semiconductor cleanroom.

## Online selection made easy

Our new website makes finding the right cable easier than ever. The site's intuitive navigation helps you quickly find the right cable, along with dimensional, material, and performance specifications. Our online Cable Design Center™ lets you build the perfect cable for your application. Plus you can easily build your own catalog and order samples of our products.

## Your standards are our standards

We rigorously test our cable to prevailing industry standards. Our cables are approved by such major agencies as UL, CSA, CE, and VDE.

## Make Alpha Wire your first choice for reliable performance

We're all about performance—high-performance products and service without compromise or excuse. Whether you're building new products or engaged in MRO, there is no better place to start your search than Alpha Wire. And once you have experienced the Alpha difference, we will become the only source you need.

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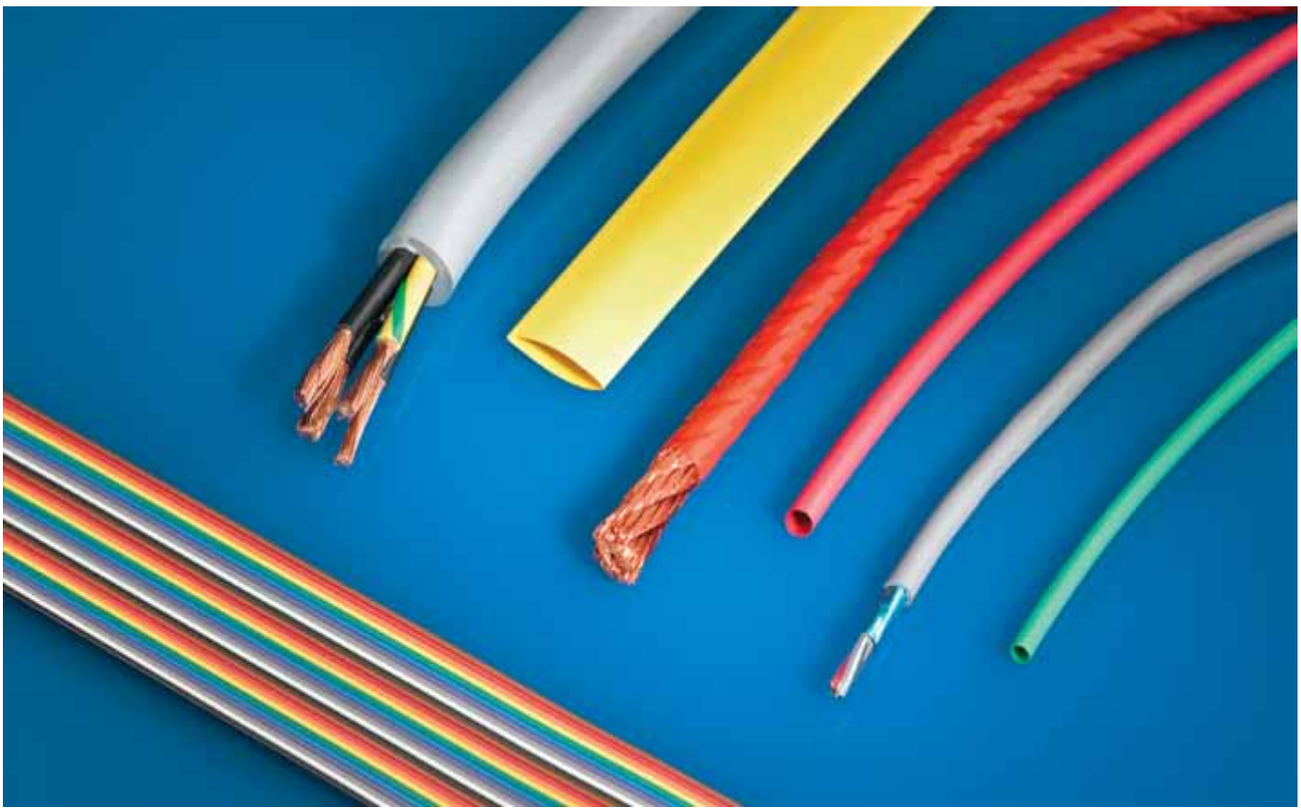
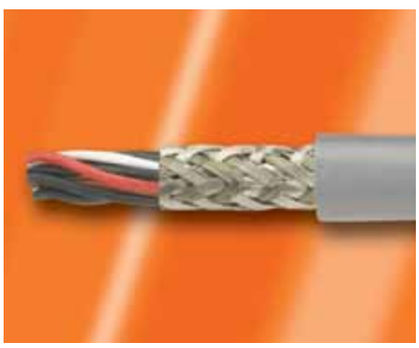
# Get the Alpha Wire Advantage





**Working closely with industry experts during our 85 year history provides us with the insights and expertise to provide the right wire, cable, and tubing products for your application. Better still, we make it easy with our legendary commitment to service.**

Even as our product line has expanded and evolved to meet the needs of new markets and application needs, one thing has remained constant: Alpha's dedication to uncompromising service. We are committed to being your most responsive and easiest to work with supplier.



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- Market-specific product solution sets for superior performance and reliability
- Well-earned reputation for high-quality, premium-grade products
- Industry's widest range and largest inventory of wire, cable, and tubing products
- Superior logistics, including same-day shipping
- Fast-turn manufacturing of custom configurations
- Flexible ordering, including small and large put-ups
- Convenient availability through global reach of 3500 distributor locations worldwide
- Unrelenting dedication to making sure you find the right cable to fit your needs
- Online Cable Design Center™ and extensive selection tools to find the right cable or spec a new one

# Connect with Alpha Wire

Make the connection with reliable, high-performance wire, cable, tubing, and accessories from Alpha Wire. With our catalog, online resources, authorized distributor network, and Alpha R&D and engineering experts available to you, getting the right Alpha products for your applications is easier than ever—no matter where and when you need them.

## Global Headquarters

(North America, South America & Africa)

**Alpha Wire**
711 Lidgerwood Avenue
Elizabeth, NJ 07207-0711
Toll Free: 1-800-52 ALPHA
Tel: 1-908-925-8000
Fax: 1-908-925-6923
E-mail: info@alphawire.com

## European Headquarters

(Europe & Middle East)

**Alpha Wire International**
Saxon House
1 Downside, Sunbury-on-Thames
Middlesex, United Kingdom TW16 6RT
Tel: +44 (0) 800 288 8809
Fax: +44 (0) 1932 772433
E-mail: europe@alphawire.com

## Asia Pacific Headquarters

(Asia & Pacific)

**Alpha Wire Asia Pacific**
Silver Center, Room 1708
North Shanxi Road 1388
Shanghai, China 200060
Tel: +86-21-61498201/61498205
Fax: +86-21-61498001
E-mail: apac@alphawire.com

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# Xtra-Guard® Performance Cable

Ultimate performance in extreme environments

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# Xtra-Guard® Performance Cable

## Ultimate performance in extreme environments

Alpha Wire's Xtra-Guard cable brings performance and reliability to the biggest challenges in the toughest environments. No matter what extremes your application faces, you'll find an Xtra-Guard cable that excels in meeting your requirements. Downtime is costly—whether caused by a complete cable failure or from the little glitches that occur when a cable doesn't live up to the demands of the application.

Xtra-Guard means peace of mind.

Hazard-matched to survive in the most demanding operating conditions, Xtra-Guard cable is the longest-lasting, highest-performing cable available. Field-proven application performance, year after year, has made Xtra-Guard cable the first choice of engineers for more than three decades.

### Superior by design

Xtra-Guard performance cable is designed to meet your needs. Its round construction makes it easier to install, seal, and route. With nearly 5000 standard constructions and the industry's broadest range of gauges, conductor counts, shielding options, and jacket color choices, Xtra-Guard cable sets the global standard for reliable performance.

### Applications

- **Automotive**
- **Industrial**
- **Machine tools**
- **Marine**
- **Medical/biotechnology**
- **Military**
- **Mining**
- **Petrochemical**
- **Semiconductor**
- **Solar**
- **Wind power**

### Key features

- **2 to 80 conductors, configured as single conductors or pairs**
- **28 – 14 AWG**
- **Stranded conductors for flexibility**
- **Choice of shielding options:**
  - **Unshielded**
  - **Aluminum/polyester for moderate EMC performance**
  - **Supra-Shield® foil/braid for exceptional EMC performance**

### Choose the right Xtra-Guard cable for your application

**Xtra-Guard 1**
High Performance
High performance in a tough PVC cable

**Xtra-Guard 2**
Oil and Abrasion Resistant
Abrasion resistant to withstand mechanical abuse

**Xtra-Guard 3**
Direct Burial
Direct burial—no conduit needed

**Xtra-Guard 4**
Advanced Temperature and Chemical Performance
Extreme temperature handles hot, cold, spills

**Xtra-Guard 5**
Maximum Chemical and Temperature Performance
Chemical and temperature resistant to withstand the most hazardous environments

**Xtra-Guard Flex**
Flexible/Flexing
Wide variety of flexing applications

| Xtra-Guard | Application | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | High Temp | Low Temp | UV | Oil/Water/ Chemical | Abrasion | Direct Burial | EMI Protection with Supra-Shield | High Flex/ Continuous Flex |
| Xtra-Guard 1 | ●○○ | ●○○ | ●●○ | ●○○ | ●○○ | NR | ●●● | NR |
| Xtra-Guard 2 | ●○○ | ●○○ | ●●○ | ●●○ | ●●● | NR | ●●● | NR |
| Xtra-Guard 3 | ●○○ | ●○○ | ●●○ | ●●○ | ●○○ | ●●● | ●●● | NR |
| Xtra-Guard 4 | ●●○ | ●●○ | ●●○ | ●●○ | ●○○ | ●○○ | ●●● | NR |
| Xtra-Guard 5 | ●●● | ●●● | ●●● | ●●● | ●●○ | ●●○ | ●●● | NR |
| Xtra-Guard Flex | ●○○ | ●○○ | ●○○ | ●○○ - ●●○ | ●○○ - ●●○ | NR | ●●● | ●●○ - ●●● |

●○○ = Good; ●●○ = Very Good; ●●● = Excellent; NR = Not Recommended



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# Xtra-Guard® 1

## High Performance

### Features

- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- Premium-grade PVC insulation and jacket for easier cable routing in small spaces
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® foil/braid
- 105°C temperature rating
- UL VW-1, UL 1685, and CSA FT-4 flammability rating
- Nylon ripcord for easy jacket stripping

### Applications

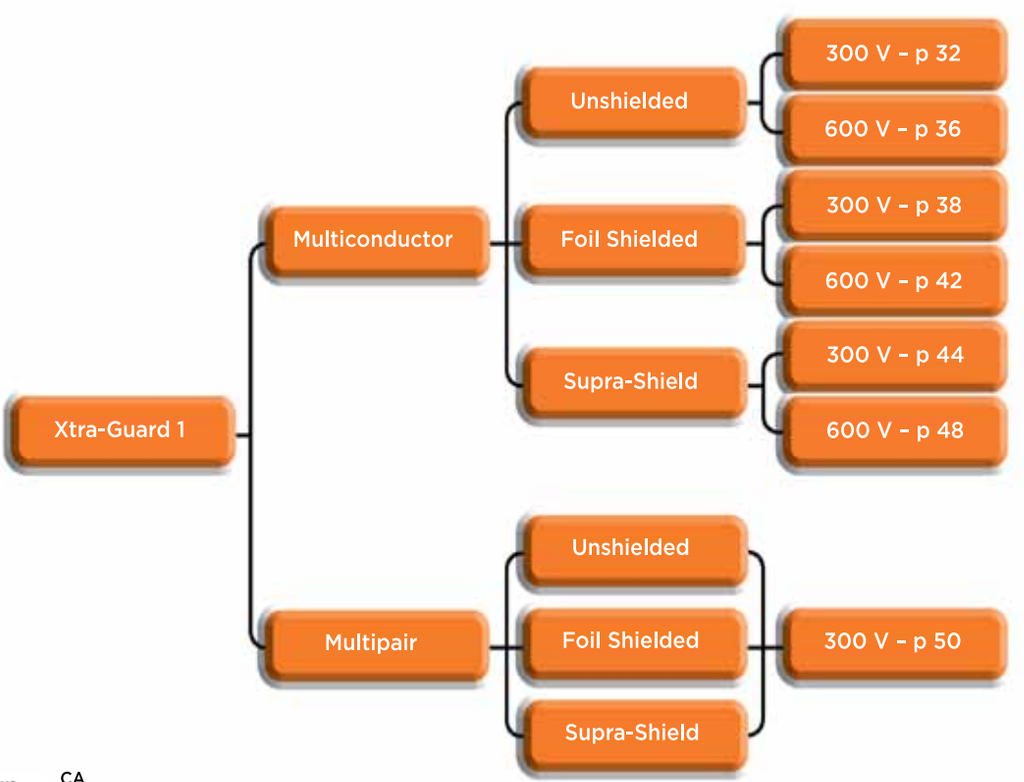
- EIA RS-232 interface
- High technology applications in controlled environments
- Medical electronics
- Point-of-sale equipment
- Computer peripherals
- Industrial process controls

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

| | | |
|---|---|---|
| SLATE | BEIGE | WHITE |
| RED | BLACK | BLUE |
| GREEN | YELLOW | ORANGE |

Xtra-Guard cables are available in a range of long-lasting colors for fast, easy identification, for safety reasons, and for matching the color of your system.

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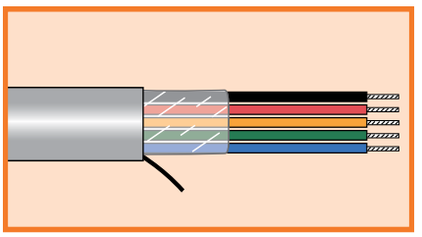
# Xtra-Guard® 1

## High performance
## 300 V Unshielded, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5920** | 2 | 0.138 | 3.51 | 0.032 | 0.81 |
| **5921** | 3 | 0.144 | 3.66 | 0.032 | 0.81 |
| **5922** | 4 | 0.153 | 3.89 | 0.032 | 0.81 |
| **5923** | 6 | 0.174 | 4.42 | 0.032 | 0.81 |
| **5924** | 7 | 0.174 | 4.42 | 0.032 | 0.81 |
| **5925** | 8 | 0.185 | 4.70 | 0.032 | 0.81 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5666** | 2 | 0.146 | 3.71 | 0.032 | 0.81 |
| **5667** | 3 | 0.152 | 3.86 | 0.032 | 0.81 |
| **5668** | 4 | 0.162 | 4.11 | 0.032 | 0.81 |
| **5669** | 6 | 0.186 | 4.72 | 0.032 | 0.81 |
| **5670** | 7 | 0.186 | 4.72 | 0.032 | 0.81 |
| **5671** | 8 | 0.198 | 5.03 | 0.032 | 0.81 |
| **5672** | 10 | 0.224 | 5.69 | 0.032 | 0.81 |
| **5673** | 15 | 0.248 | 6.30 | 0.032 | 0.81 |

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5012C** | 2 | 0.156 | 3.96 | 0.032 | 0.81 |
| **5013C** | 3 | 0.163 | 4.14 | 0.032 | 0.81 |
| **5014C** | 4 | 0.175 | 4.45 | 0.032 | 0.81 |
| **5016C** | 6 | 0.201 | 5.11 | 0.032 | 0.81 |
| **5018C** | 8 | 0.215 | 5.46 | 0.032 | 0.81 |
| **5020C** | 10 | 0.244 | 6.20 | 0.032 | 0.81 |
| **5020/15C** | 15 | 0.271 | 6.88 | 0.032 | 0.81 |
| **5020/20C** | 20 | 0.300 | 7.62 | 0.032 | 0.81 |
| **5020/25C** | 25 | 0.332 | 8.43 | 0.032 | 0.81 |
| **5020/30C** | 30 | 0.350 | 8.89 | 0.032 | 0.81 |
| **5020/40C** | 40 | 0.390 | 9.91 | 0.032 | 0.81 |
| **5020/50C** | 50 | 0.429 | 10.90 | 0.032 | 0.81 |



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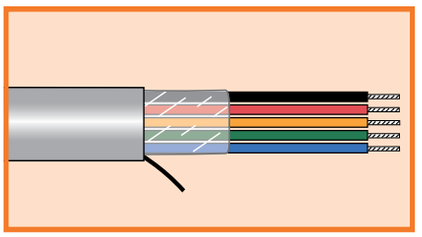
# Xtra-Guard® 1

## High Performance
## 300 V Unshielded, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5002C** | 2 | 0.168 | 4.27 | 0.032 | 0.81 |
| **5003C** | 3 | 0.176 | 4.47 | 0.032 | 0.81 |
| **5004C** | 4 | 0.189 | 4.80 | 0.032 | 0.81 |
| **5006C** | 6 | 0.219 | 5.56 | 0.032 | 0.81 |
| **5008C** | 8 | 0.235 | 5.97 | 0.032 | 0.81 |
| **5010C** | 10 | 0.268 | 6.81 | 0.032 | 0.81 |
| **5010/15C** | 15 | 0.299 | 7.59 | 0.032 | 0.81 |
| **5010/20C** | 20 | 0.331 | 8.41 | 0.032 | 0.81 |
| **5010/25C** | 25 | 0.368 | 9.35 | 0.032 | 0.81 |
| **5010/30C** | 30 | 0.389 | 9.88 | 0.032 | 0.81 |
| **5010/40C** | 40 | 0.434 | 11.02 | 0.032 | 0.81 |
| **5010/50C** | 50 | 0.478 | 12.14 | 0.032 | 0.81 |
| **5010/60C** | 60 | 0.518 | 13.16 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5052C** | 2 | 0.208 | 5.28 | 0.032 | 0.81 |
| **5053C** | 3 | 0.219 | 5.56 | 0.032 | 0.81 |
| **5054C** | 4 | 0.238 | 6.05 | 0.032 | 0.81 |
| **5056C** | 6 | 0.280 | 7.11 | 0.032 | 0.81 |
| **5058C** | 8 | 0.302 | 7.67 | 0.032 | 0.81 |
| **5060C** | 10 | 0.348 | 8.84 | 0.032 | 0.81 |
| **5060/15C** | 15 | 0.391 | 9.93 | 0.032 | 0.81 |
| **5060/20C** | 20 | 0.437 | 11.10 | 0.032 | 0.81 |
| **5060/25C** | 25 | 0.488 | 12.40 | 0.032 | 0.81 |
| **5060/30C** | 30 | 0.517 | 13.13 | 0.032 | 0.81 |
| **5060/40C** | 40 | 0.622 | 15.80 | 0.053 | 1.35 |
| **5060/50C** | 50 | 0.684 | 17.37 | 0.053 | 1.35 |

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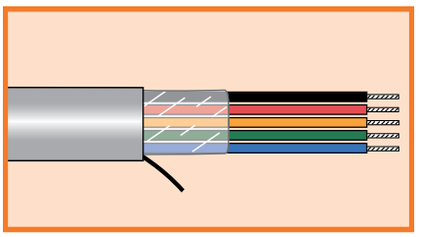
# Xtra-Guard® 1

## High Performance
## 300 V Unshielded, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5062/1C*** | 2 | 0.226 | 5.74 | 0.032 | 0.81 |
| **5062C** | 2 | 0.226 | 5.74 | 0.032 | 0.81 |
| **5063/1C*** | 3 | 0.238 | 6.05 | 0.032 | 0.81 |
| **5063C** | 3 | 0.238 | 6.05 | 0.032 | 0.81 |
| **5064C** | 4 | 0.259 | 6.58 | 0.032 | 0.81 |
| **5066C** | 6 | 0.307 | 7.80 | 0.032 | 0.81 |
| **5068C** | 8 | 0.332 | 8.43 | 0.032 | 0.81 |
| **5070C** | 10 | 0.384 | 9.75 | 0.032 | 0.81 |
| **5070/15C** | 15 | 0.433 | 11.00 | 0.032 | 0.81 |
| **5070/20C** | 20 | 0.484 | 12.29 | 0.032 | 0.81 |
| **5070/25C** | 25 | 0.542 | 13.77 | 0.032 | 0.81 |
| **5070/30C** | 30 | 0.617 | 15.67 | 0.053 | 1.35 |
| **5070/40C** | 40 | 0.688 | 17.48 | 0.053 | 1.35 |
| **5070/50C** | 50 | 0.758 | 19.25 | 0.053 | 1.35 |
| **5070/60C** | 60 | 0.881 | 22.38 | 0.083 | 2.11 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5072/1C*** | 2 | 0.250 | 6.35 | 0.032 | 0.81 |
| **5072C** | 2 | 0.250 | 6.35 | 0.032 | 0.81 |
| **5073/1C*** | 3 | 0.264 | 6.71 | 0.032 | 0.81 |
| **5073C** | 3 | 0.264 | 6.71 | 0.032 | 0.81 |
| **5074C** | 4 | 0.288 | 7.32 | 0.032 | 0.81 |
| **5076C** | 6 | 0.343 | 8.71 | 0.032 | 0.81 |
| **5078C** | 8 | 0.372 | 9.45 | 0.032 | 0.81 |
| **5080C** | 10 | 0.432 | 10.97 | 0.032 | 0.81 |
| **5080/15C** | 15 | 0.488 | 12.40 | 0.032 | 0.81 |
| **5080/20C** | 20 | 0.547 | 13.89 | 0.053 | 0.81 |
| **5080/25C** | 25 | 0.656 | 16.66 | 0.053 | 0.81 |
| **5080/30C** | 30 | 0.694 | 17.63 | 0.053 | 0.81 |
| **5080/40C** | 40 | 0.775 | 19.69 | 0.083 | 2.11 |
| **5080/50C** | 50 | 0.917 | 23.29 | 0.083 | 2.11 |

*Conductors color-coded per international standards: brown, blue, green/yellow.



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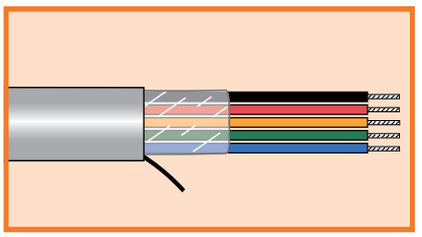
# Xtra-Guard® 1

## High Performance
## 300 V Unshielded, Multiconductor



**UL CM**
**UL AWM 2343 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5201C** | 7 | 0.263 | 6.68 | 0.063 | 1.60 |
| **5202C** | 12 | 0.313 | 7.95 | 0.063 | 1.60 |
| **5203C** | 15 | 0.333 | 8.46 | 0.063 | 1.60 |
| **5204C** | 19 | 0.350 | 8.89 | 0.063 | 1.60 |
| **5206C** | 37 | 0.438 | 11.13 | 0.063 | 1.60 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5210/2C** | 2 | 0.230 | 5.84 | 0.063 | 1.60 |
| **5211C** | 7 | 0.281 | 7.14 | 0.063 | 1.60 |
| **5212C** | 12 | 0.338 | 8.59 | 0.063 | 1.60 |
| **5213C** | 15 | 0.361 | 9.17 | 0.063 | 1.60 |
| **5214C** | 19 | 0.380 | 9.65 | 0.063 | 1.60 |
| **5214/25C** | 25 | 0.430 | 10.92 | 0.063 | 1.60 |
| **5215C** | 27 | 0.438 | 11.13 | 0.063 | 1.60 |
| **5216C** | 37 | 0.480 | 12.19 | 0.063 | 1.60 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5220/2C** | 2 | 0.246 | 6.25 | 0.063 | 1.60 |
| **5220C** | 5 | 0.288 | 7.32 | 0.063 | 1.60 |
| **5221C** | 7 | 0.305 | 7.75 | 0.063 | 1.60 |
| **5222C** | 12 | 0.371 | 9.42 | 0.063 | 1.60 |
| **5223C** | 15 | 0.398 | 10.11 | 0.063 | 1.60 |
| **5224C** | 19 | 0.420 | 10.67 | 0.063 | 1.60 |
| **5224/25C** | 25 | 0.478 | 12.14 | 0.063 | 1.60 |
| **5225C** | 27 | 0.487 | 12.37 | 0.063 | 1.60 |
| **5226C** | 37 | 0.536 | 13.61 | 0.063 | 1.60 |

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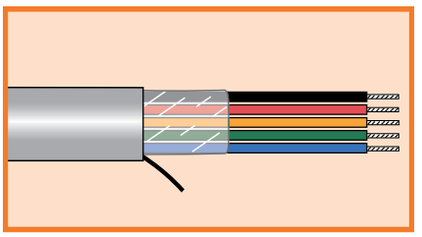
# Xtra-Guard® 1

## High Performance
## 600 V Unshielded, Multiconductor



**UL CM**
**UL AWM 2501 VW-1**
**UL MTW**
**CSA AWM I/II A/B FT4**

### Operating Temperature

- –30°C to +105°C
- –30°C to +90°C (MTW)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5402** | 2 | 0.318 | 8.08 | 0.063 | 1.60 |
| **5404** | 4 | 0.358 | 9.09 | 0.063 | 1.60 |
| **5405** | 5 | 0.385 | 9.78 | 0.063 | 1.60 |
| **5409** | 9 | 0.473 | 12.01 | 0.063 | 1.60 |
| **5409/19** | 19 | 0.601 | 15.27 | 0.063 | 1.60 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5413** | 3 | 0.350 | 8.89 | 0.063 | 1.60 |
| **5414** | 4 | 0.377 | 9.58 | 0.063 | 1.60 |
| **5419** | 9 | 0.503 | 12.78 | 0.063 | 1.60 |
| **5419/12** | 12 | 0.554 | 14.07 | 0.063 | 1.60 |
| **5419/15** | 15 | 0.601 | 15.27 | 0.063 | 1.60 |
| **5419/19** | 19 | 0.641 | 16.28 | 0.063 | 1.60 |
| **5419/25** | 25 | 0.742 | 18.85 | 0.063 | 1.60 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5422** | 2 | 0.352 | 8.94 | 0.063 | 1.60 |
| **5423** | 3 | 0.369 | 9.37 | 0.063 | 1.60 |
| **5424** | 4 | 0.399 | 10.13 | 0.063 | 1.60 |
| **5425** | 5 | 0.432 | 10.97 | 0.063 | 1.60 |
| **5427** | 7 | 0.466 | 11.84 | 0.063 | 1.60 |
| **5429** | 9 | 0.535 | 13.59 | 0.063 | 1.60 |
| **5429/15** | 15 | 0.643 | 16.33 | 0.063 | 1.60 |
| **5429/19** | 19 | 0.686 | 17.42 | 0.063 | 1.60 |
| **5429/25** | 25 | 0.796 | 20.22 | 0.063 | 1.60 |



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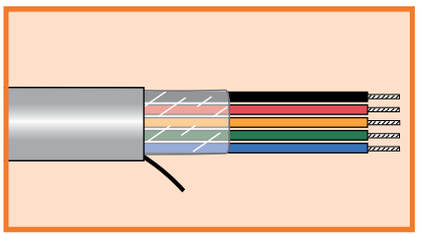
# Xtra-Guard® 1

## High Performance
## 600 V Unshielded, Multiconductor



**UL CM**
**UL AWM 2501 VW-1**
**UL MTW**
**CSA AWM I/II A/B FT4**

### Operating Temperature

- –30°C to +105°C
- –30°C to +90°C (MTW)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5434** | 4 | 0.428 | 10.87 | 0.063 | 1.60 |
| **5435** | 5 | 0.464 | 11.79 | 0.063 | 1.60 |
| **5437** | 7 | 0.502 | 12.75 | 0.063 | 1.60 |
| **5439** | 9 | 0.579 | 14.71 | 0.063 | 1.60 |
| **5439/12** | 12 | 0.641 | 16.28 | 0.063 | 1.60 |
| **5439/15** | 15 | 0.698 | 17.73 | 0.063 | 1.60 |
| **5439/19** | 19 | 0.746 | 18.95 | 0.083 | 2.11 |
| **5439/25** | 25 | 0.908 | 23.06 | 0.083 | 2.11 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5442** | 2 | 0.406 | 10.31 | 0.063 | 1.60 |
| **5443** | 3 | 0.428 | 10.87 | 0.063 | 1.60 |
| **5444** | 4 | 0.464 | 11.79 | 0.063 | 1.60 |
| **5445** | 5 | 0.505 | 12.83 | 0.063 | 1.60 |
| **5447** | 7 | 0.547 | 13.89 | 0.063 | 1.60 |
| **5449** | 9 | 0.634 | 16.10 | 0.063 | 1.60 |
| **5449/12** | 12 | 0.703 | 17.86 | 0.063 | 1.60 |
| **5449/15** | 15 | 0.767 | 19.48 | 0.063 | 1.60 |
| **5449/25** | 25 | 0.998 | 25.35 | 0.083 | 2.11 |

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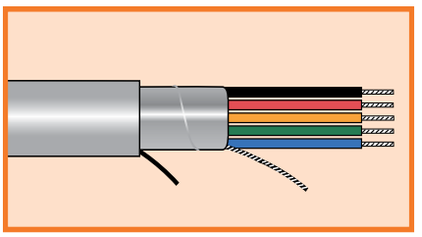
# Xtra-Guard® 1

## High Performance
## 300 V Foil Shielded, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5926** | 2 | 0.142 | 3.61 | 0.032 | 0.81 |
| **5927** | 3 | 0.148 | 3.76 | 0.032 | 0.81 |
| **5928** | 4 | 0.157 | 3.99 | 0.032 | 0.81 |
| **5929** | 6 | 0.178 | 4.52 | 0.032 | 0.81 |
| **5930** | 7 | 0.178 | 4.52 | 0.032 | 0.81 |
| **5931** | 8 | 0.189 | 4.80 | 0.032 | 0.81 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5674** | 2 | 0.150 | 3.81 | 0.032 | 0.81 |
| **5675** | 3 | 0.156 | 3.96 | 0.032 | 0.81 |
| **5676** | 4 | 0.166 | 4.22 | 0.032 | 0.81 |
| **5677** | 6 | 0.190 | 4.83 | 0.032 | 0.81 |
| **5678** | 7 | 0.190 | 4.83 | 0.032 | 0.81 |
| **5679** | 8 | 0.202 | 5.13 | 0.032 | 0.81 |
| **5680** | 10 | 0.228 | 5.79 | 0.032 | 0.81 |
| **5681** | 15 | 0.252 | 6.40 | 0.032 | 0.81 |

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5092C** | 2 | 0.160 | 4.06 | 0.032 | 0.81 |
| **5093C** | 3 | 0.167 | 4.24 | 0.032 | 0.81 |
| **5094C** | 4 | 0.179 | 4.55 | 0.032 | 0.81 |
| **5096C** | 6 | 0.205 | 5.21 | 0.032 | 0.81 |
| **5098C** | 8 | 0.219 | 5.56 | 0.032 | 0.81 |
| **5100C** | 10 | 0.248 | 6.30 | 0.032 | 0.81 |
| **5100/15C** | 15 | 0.275 | 6.99 | 0.032 | 0.81 |
| **5100/20C** | 20 | 0.304 | 7.72 | 0.032 | 0.81 |
| **5100/25C** | 25 | 0.336 | 8.53 | 0.032 | 0.81 |
| **5100/30C** | 30 | 0.354 | 8.99 | 0.032 | 0.81 |
| **5100/40C** | 40 | 0.394 | 10.01 | 0.032 | 0.81 |
| **5100/50C** | 50 | 0.433 | 11.00 | 0.032 | 0.81 |
| **5100/60C** | 60 | 0.468 | 11.89 | 0.032 | 0.81 |
| **5100/70C** | 70 | 0.505 | 12.83 | 0.032 | 0.81 |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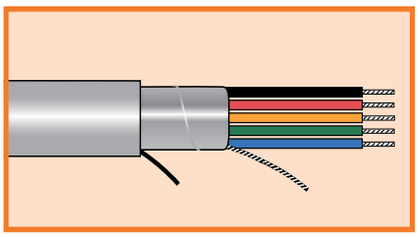
# Xtra-Guard® 1

## High Performance
## 300 V Foil Shielded, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5192C** | 2 | 0.172 | 4.37 | 0.032 | 0.81 |
| **5193C** | 3 | 0.180 | 4.57 | 0.032 | 0.81 |
| **5194C** | 4 | 0.193 | 4.90 | 0.032 | 0.81 |
| **5196C** | 6 | 0.223 | 5.66 | 0.032 | 0.81 |
| **5198C** | 8 | 0.239 | 6.07 | 0.032 | 0.81 |
| **5199/10C** | 10 | 0.272 | 6.91 | 0.032 | 0.81 |
| **5199/15C** | 15 | 0.303 | 7.70 | 0.032 | 0.81 |
| **5199/20C** | 20 | 0.335 | 8.51 | 0.032 | 0.81 |
| **5199/25C** | 25 | 0.372 | 9.45 | 0.032 | 0.81 |
| **5199/30C** | 30 | 0.393 | 9.98 | 0.032 | 0.81 |
| **5199/40C** | 40 | 0.438 | 11.13 | 0.032 | 0.81 |
| **5199/50C** | 50 | 0.482 | 12.24 | 0.032 | 0.81 |
| **5199/60C** | 60 | 0.522 | 13.26 | 0.032 | 0.81 |
| **5199/70C** | 70 | 0.606 | 15.39 | 0.053 | 1.35 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5462C** | 2 | 0.212 | 5.38 | 0.032 | 0.81 |
| **5463C** | 3 | 0.223 | 5.66 | 0.032 | 0.81 |
| **5464C** | 4 | 0.242 | 6.15 | 0.032 | 0.81 |
| **5466C** | 6 | 0.284 | 7.21 | 0.032 | 0.81 |
| **5468C** | 8 | 0.306 | 7.77 | 0.032 | 0.81 |
| **5470C** | 10 | 0.352 | 8.94 | 0.032 | 0.81 |
| **5470/15C** | 15 | 0.395 | 10.03 | 0.032 | 0.81 |
| **5470/20C** | 20 | 0.441 | 11.20 | 0.032 | 0.81 |
| **5470/25C** | 25 | 0.492 | 12.50 | 0.032 | 0.81 |
| **5470/30C** | 30 | 0.521 | 13.23 | 0.032 | 0.81 |
| **5470/40C** | 40 | 0.626 | 15.90 | 0.053 | 1.35 |
| **5470/50C** | 50 | 0.688 | 17.48 | 0.053 | 1.35 |

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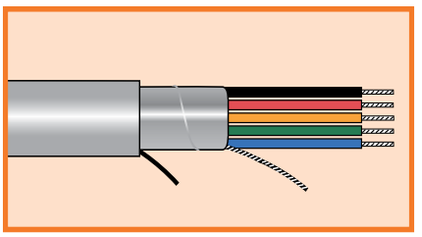
# Xtra-Guard® 1

## High Performance
## 300 V Foil Shielded, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5382C** | 2 | 0.230 | 5.84 | 0.032 | 0.81 |
| **5382/1C*** | 2 | 0.230 | 5.84 | 0.032 | 0.81 |
| **5383C** | 3 | 0.242 | 6.15 | 0.032 | 0.81 |
| **5383/1C*** | 3 | 0.242 | 6.15 | 0.032 | 0.81 |
| **5384C** | 4 | 0.263 | 6.68 | 0.032 | 0.81 |
| **5386C** | 6 | 0.311 | 7.90 | 0.032 | 0.81 |
| **5388C** | 8 | 0.336 | 8.53 | 0.032 | 0.81 |
| **5390C** | 10 | 0.388 | 9.86 | 0.032 | 0.81 |
| **5390/15C** | 15 | 0.437 | 11.10 | 0.032 | 0.81 |
| **5390/20C** | 20 | 0.488 | 12.40 | 0.032 | 0.81 |
| **5390/25C** | 25 | 0.588 | 14.94 | 0.053 | 1.35 |
| **5390/30C** | 30 | 0.621 | 15.77 | 0.053 | 1.35 |
| **5390/40C** | 40 | 0.692 | 17.58 | 0.053 | 1.35 |
| **5390/50C** | 50 | 0.762 | 19.35 | 0.053 | 1.35 |
| **5390/60C** | 60 | 0.885 | 22.48 | 0.083 | 2.11 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5362C** | 2 | 0.254 | 6.45 | 0.032 | 0.81 |
| **5362/1C*** | 2 | 0.254 | 6.45 | 0.032 | 0.81 |
| **5363C** | 3 | 0.268 | 6.81 | 0.032 | 0.81 |
| **5363/1C*** | 3 | 0.268 | 6.81 | 0.032 | 0.81 |
| **5364C** | 4 | 0.292 | 7.42 | 0.032 | 0.81 |
| **5366C** | 6 | 0.347 | 8.81 | 0.032 | 0.81 |
| **5368C** | 8 | 0.376 | 9.55 | 0.032 | 0.81 |
| **5370C** | 10 | 0.436 | 11.07 | 0.032 | 0.81 |
| **5370/15C** | 15 | 0.492 | 12.50 | 0.032 | 0.81 |
| **5370/20C** | 20 | 0.593 | 15.06 | 0.053 | 1.35 |
| **5370/25C** | 25 | 0.660 | 16.76 | 0.053 | 1.35 |
| **5370/30C** | 30 | 0.698 | 17.73 | 0.053 | 1.35 |
| **5370/40C** | 40 | 0.779 | 19.79 | 0.083 | 2.11 |

*Conductors color-coded per international standards: brown, blue, green/yellow.



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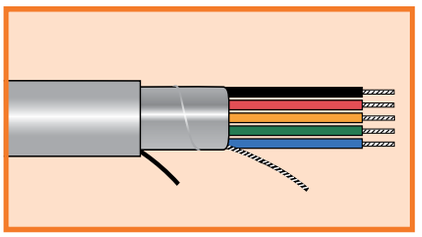
# Xtra-Guard® 1

## High Performance
## 300 V Foil Shielded, Multiconductor



**UL CM**
**UL AWM 2343 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5599/3C** | 3 | 0.229 | 5.82 | 0.063 | 1.60 |
| **5599/5C** | 5 | 0.254 | 6.45 | 0.063 | 1.60 |
| **5599/7C** | 7 | 0.267 | 6.78 | 0.063 | 1.60 |
| **5599/12C** | 12 | 0.317 | 8.05 | 0.063 | 1.60 |
| **5599/15C** | 15 | 0.337 | 8.56 | 0.063 | 1.60 |
| **5599/19C** | 19 | 0.354 | 8.99 | 0.063 | 1.60 |
| **5599/27C** | 27 | 0.405 | 10.29 | 0.063 | 1.60 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5580/2C** | 2 | 0.234 | 5.94 | 0.063 | 1.60 |
| **5580C** | 5 | 0.270 | 6.86 | 0.063 | 1.60 |
| **5581C** | 7 | 0.285 | 7.24 | 0.063 | 1.60 |
| **5582C** | 12 | 0.342 | 8.69 | 0.063 | 1.60 |
| **5583C** | 15 | 0.365 | 9.27 | 0.063 | 1.60 |
| **5584C** | 19 | 0.384 | 9.75 | 0.063 | 1.60 |
| **5586C** | 37 | 0.484 | 12.29 | 0.063 | 1.60 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5560/2C** | 2 | 0.250 | 6.35 | 0.063 | 1.60 |
| **5560C** | 5 | 0.292 | 7.42 | 0.063 | 1.60 |
| **5561C** | 7 | 0.309 | 7.85 | 0.063 | 1.60 |
| **5562C** | 12 | 0.375 | 9.53 | 0.063 | 1.60 |
| **5563C** | 15 | 0.402 | 10.21 | 0.063 | 1.60 |
| **5564C** | 19 | 0.424 | 10.77 | 0.063 | 1.60 |

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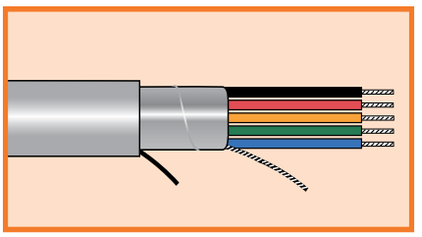
# Xtra-Guard® 1

## High Performance
## 600 V Foil Shielded, Multiconductor



**UL AWM 2501 VW-1**
**CSA AWM I/II A/B FT4**
**UL MTW**

### Operating Temperature

- –30°C to +105°C (AWM)
- –30°C to +90°C (MTW)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5410/2** | 2 | 0.322 | 8.18 | 0.063 | 1.60 |
| **5410/3** | 3 | 0.337 | 8.56 | 0.063 | 1.60 |
| **5410/4** | 4 | 0.362 | 9.19 | 0.063 | 1.60 |
| **5410/5** | 5 | 0.389 | 9.88 | 0.063 | 1.60 |
| **5410/9** | 9 | 0.477 | 12.12 | 0.063 | 1.60 |
| **5410/12** | 12 | 0.525 | 13.34 | 0.063 | 1.60 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5420/3** | 3 | 0.354 | 8.99 | 0.063 | 1.60 |
| **5420/4** | 4 | 0.381 | 9.68 | 0.063 | 1.60 |
| **5420/5** | 5 | 0.411 | 10.44 | 0.063 | 1.60 |
| **5420/7** | 7 | 0.442 | 11.23 | 0.063 | 1.60 |
| **5420/9** | 9 | 0.507 | 12.88 | 0.063 | 1.60 |
| **5420/12** | 12 | 0.558 | 14.17 | 0.063 | 1.60 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5430/2** | 2 | 0.356 | 9.04 | 0.063 | 1.60 |
| **5430/3** | 3 | 0.373 | 9.47 | 0.063 | 1.60 |
| **5430/4** | 4 | 0.403 | 10.24 | 0.063 | 1.60 |
| **5430/5** | 5 | 0.436 | 11.07 | 0.063 | 1.60 |
| **5430/7** | 7 | 0.470 | 11.94 | 0.063 | 1.60 |
| **5430/9** | 9 | 0.539 | 13.69 | 0.063 | 1.60 |
| **5430/12** | 12 | 0.595 | 15.11 | 0.063 | 1.60 |
| **5430/15** | 15 | 0.647 | 16.43 | 0.063 | 1.60 |
| **5430/19** | 19 | 0.690 | 17.53 | 0.063 | 1.60 |
| **5430/25** | 25 | 0.800 | 20.32 | 0.063 | 1.60 |



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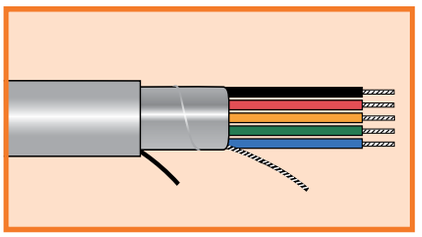
# Xtra-Guard® 1

## High Performance
## 600 V Foil Shielded, Multiconductor



**UL AWM 2501 VW-1**
**CSA AWM I/II A/B FT4**
**UL MTW**

### Operating Temperature

- –30°C to +105°C (AWM)
- –30°C to +90°C (MTW)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5440/2** | 2 | 0.380 | 9.65 | 0.063 | 1.60 |
| **5440/3** | 3 | 0.399 | 10.13 | 0.063 | 1.60 |
| **5440/4** | 4 | 0.432 | 10.97 | 0.063 | 1.60 |
| **5440/5** | 5 | 0.468 | 11.89 | 0.063 | 1.60 |
| **5440/7** | 7 | 0.506 | 12.85 | 0.063 | 1.60 |
| **5440/9** | 9 | 0.583 | 14.81 | 0.063 | 1.60 |
| **5440/12** | 12 | 0.645 | 16.38 | 0.063 | 1.60 |
| **5440/15** | 15 | 0.702 | 17.83 | 0.063 | 1.60 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5450/2** | 2 | 0.410 | 10.41 | 0.063 | 1.60 |
| **5450/3** | 3 | 0.432 | 10.97 | 0.063 | 1.60 |
| **5450/4** | 4 | 0.468 | 11.89 | 0.063 | 1.60 |
| **5450/5** | 5 | 0.509 | 12.93 | 0.063 | 1.60 |
| **5450/7** | 7 | 0.551 | 14.00 | 0.063 | 1.60 |
| **5450/12** | 12 | 0.707 | 17.96 | 0.063 | 1.60 |

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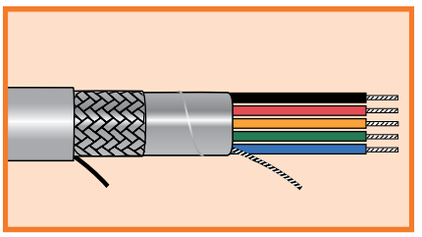
# Xtra-Guard® 1

## High Performance
## 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5932** | 2 | 0.166 | 4.22 | 0.032 | 0.81 |
| **5933** | 3 | 0.172 | 4.37 | 0.032 | 0.81 |
| **5934** | 4 | 0.181 | 4.60 | 0.032 | 0.81 |
| **5935** | 6 | 0.202 | 5.13 | 0.032 | 0.81 |
| **5936** | 7 | 0.202 | 5.13 | 0.032 | 0.81 |
| **5937** | 8 | 0.213 | 5.41 | 0.032 | 0.81 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5682** | 2 | 0.174 | 4.42 | 0.032 | 0.81 |
| **5683** | 3 | 0.180 | 4.57 | 0.032 | 0.81 |
| **5684** | 4 | 0.190 | 4.83 | 0.032 | 0.81 |
| **5685** | 6 | 0.214 | 5.44 | 0.032 | 0.81 |
| **5686** | 7 | 0.214 | 5.44 | 0.032 | 0.81 |
| **5687** | 8 | 0.226 | 5.74 | 0.032 | 0.81 |
| **5688** | 10 | 0.252 | 6.40 | 0.032 | 0.81 |
| **5689** | 15 | 0.276 | 7.01 | 0.032 | 0.81 |

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5112C** | 2 | 0.184 | 4.67 | 0.032 | 0.81 |
| **5113C** | 3 | 0.191 | 4.85 | 0.032 | 0.81 |
| **5114C** | 4 | 0.203 | 5.16 | 0.032 | 0.81 |
| **5116C** | 6 | 0.229 | 5.82 | 0.032 | 0.81 |
| **5118C** | 8 | 0.243 | 6.17 | 0.032 | 0.81 |
| **5120C** | 10 | 0.272 | 6.91 | 0.032 | 0.81 |
| **5120/15C** | 15 | 0.299 | 7.59 | 0.032 | 0.81 |
| **5120/20C** | 20 | 0.328 | 8.33 | 0.032 | 0.81 |
| **5120/25C** | 25 | 0.360 | 9.14 | 0.032 | 0.81 |
| **5120/30C** | 30 | 0.378 | 9.60 | 0.032 | 0.81 |
| **5120/40C** | 40 | 0.418 | 10.62 | 0.032 | 0.81 |
| **5120/50C** | 50 | 0.457 | 11.61 | 0.032 | 0.81 |



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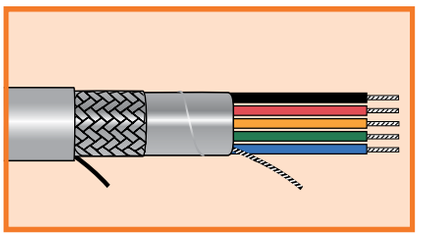
# Xtra-Guard® 1

## High Performance
## 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5102C** | 2 | 0.196 | 4.98 | 0.032 | 0.81 |
| **5103C** | 3 | 0.204 | 5.18 | 0.032 | 0.81 |
| **5104C** | 4 | 0.217 | 5.51 | 0.032 | 0.81 |
| **5106C** | 6 | 0.247 | 6.27 | 0.032 | 0.81 |
| **5108C** | 8 | 0.263 | 6.68 | 0.032 | 0.81 |
| **5110C** | 10 | 0.296 | 7.52 | 0.032 | 0.81 |
| **5110/15C** | 15 | 0.327 | 8.31 | 0.032 | 0.81 |
| **5110/20C** | 20 | 0.359 | 9.12 | 0.032 | 0.81 |
| **5110/25C** | 25 | 0.396 | 10.06 | 0.032 | 0.81 |
| **5110/30C** | 30 | 0.417 | 10.59 | 0.032 | 0.81 |
| **5110/40C** | 40 | 0.462 | 11.73 | 0.032 | 0.81 |
| **5110/50C** | 50 | 0.506 | 12.85 | 0.032 | 0.81 |
| **5110/60C** | 60 | 0.588 | 14.94 | 0.053 | 1.35 |
| **5110/70C** | 70 | 0.630 | 16.00 | 0.053 | 1.35 |
| **5110/80C** | 80 | 0.665 | 16.89 | 0.053 | 1.35 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5152C** | 2 | 0.236 | 5.99 | 0.032 | 0.81 |
| **5153C** | 3 | 0.247 | 6.27 | 0.032 | 0.81 |
| **5154C** | 4 | 0.266 | 6.76 | 0.032 | 0.81 |
| **5156C** | 6 | 0.308 | 7.82 | 0.032 | 0.81 |
| **5158C** | 8 | 0.330 | 8.38 | 0.032 | 0.81 |
| **5160C** | 10 | 0.376 | 9.55 | 0.032 | 0.81 |
| **5160/15C** | 15 | 0.419 | 10.64 | 0.032 | 0.81 |
| **5160/20C** | 20 | 0.465 | 11.81 | 0.032 | 0.81 |
| **5160/25C** | 25 | 0.516 | 13.11 | 0.032 | 0.81 |
| **5160/30C** | 30 | 0.545 | 13.84 | 0.032 | 0.81 |
| **5160/40C** | 40 | 0.656 | 16.66 | 0.053 | 1.35 |
| **5160/50C** | 50 | 0.718 | 18.24 | 0.053 | 1.35 |
| **5160/60C** | 60 | 0.774 | 19.66 | 0.053 | 1.35 |

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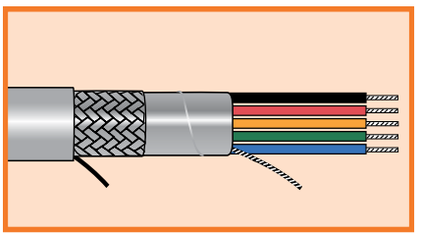
# Xtra-Guard® 1

## High Performance
## 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5162/1C*** | 2 | 0.254 | 6.45 | 0.032 | 0.81 |
| **5162C** | 2 | 0.254 | 6.45 | 0.032 | 0.81 |
| **5163/1C*** | 3 | 0.266 | 6.76 | 0.032 | 0.81 |
| **5163C** | 3 | 0.266 | 6.76 | 0.032 | 0.81 |
| **5164C** | 4 | 0.287 | 7.29 | 0.032 | 0.81 |
| **5166C** | 6 | 0.335 | 8.51 | 0.032 | 0.81 |
| **5168C** | 8 | 0.360 | 9.14 | 0.032 | 0.81 |
| **5170C** | 10 | 0.412 | 10.46 | 0.032 | 0.81 |
| **5170/15C** | 15 | 0.461 | 11.71 | 0.032 | 0.81 |
| **5170/20C** | 20 | 0.512 | 13.00 | 0.032 | 0.81 |
| **5170/25C** | 25 | 0.612 | 15.54 | 0.053 | 1.35 |
| **5170/30C** | 30 | 0.651 | 16.54 | 0.053 | 1.35 |
| **5170/40C** | 40 | 0.722 | 18.34 | 0.053 | 1.35 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5172/1C*** | 2 | 0.278 | 7.06 | 0.032 | 0.81 |
| **5172C** | 2 | 0.278 | 7.06 | 0.032 | 0.81 |
| **5173/1C*** | 3 | 0.292 | 7.42 | 0.032 | 0.81 |
| **5173C** | 3 | 0.292 | 7.42 | 0.032 | 0.81 |
| **5174C** | 4 | 0.316 | 8.03 | 0.032 | 0.81 |
| **5176C** | 6 | 0.371 | 9.42 | 0.032 | 0.81 |
| **5178C** | 8 | 0.400 | 10.16 | 0.032 | 0.81 |
| **5180C** | 10 | 0.460 | 11.68 | 0.032 | 0.81 |
| **5180/15C** | 15 | 0.516 | 13.11 | 0.032 | 0.81 |
| **5180/20C** | 20 | 0.617 | 15.67 | 0.053 | 1.35 |
| **5180/25C** | 25 | 0.690 | 17.53 | 0.053 | 1.35 |

*Conductors color-coded per international standards: brown, blue, green/yellow.



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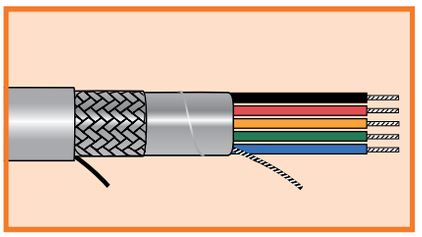
https://www.AngicGlobal.com Sales@AngicGlobal.com

# Xtra-Guard® 1

## High Performance
## 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL CM**
**UL AWM 2343 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5300C** | 5 | 0.278 | 7.06 | 0.063 | 1.60 |
| **5301C** | 7 | 0.291 | 7.39 | 0.063 | 1.60 |
| **5302C** | 12 | 0.341 | 8.66 | 0.063 | 1.60 |
| **5303C** | 15 | 0.361 | 9.17 | 0.063 | 1.60 |
| **5304C** | 19 | 0.378 | 9.60 | 0.063 | 1.60 |
| **5305C** | 27 | 0.429 | 10.90 | 0.063 | 1.60 |
| **5306C** | 37 | 0.466 | 11.84 | 0.063 | 1.60 |
| **5307C** | 48 | 0.517 | 13.13 | 0.063 | 1.60 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5310C** | 5 | 0.294 | 7.47 | 0.063 | 1.60 |
| **5311C** | 7 | 0.309 | 7.85 | 0.063 | 1.60 |
| **5312C** | 12 | 0.366 | 9.30 | 0.063 | 1.60 |
| **5313C** | 15 | 0.389 | 9.88 | 0.063 | 1.60 |
| **5314C** | 19 | 0.408 | 10.36 | 0.063 | 1.60 |
| **5316C** | 37 | 0.508 | 12.90 | 0.063 | 1.60 |
| **5318C** | 60 | 0.608 | 15.44 | 0.063 | 1.60 |

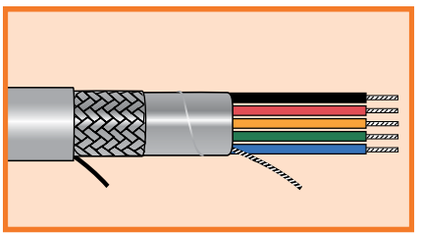
**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **5320/4C** | 4 | 0.299 | 7.59 | 0.063 | 1.60 |
| **5320C** | 5 | 0.316 | 8.03 | 0.063 | 1.60 |
| **5321C** | 7 | 0.333 | 8.46 | 0.063 | 1.60 |
| **5322C** | 12 | 0.399 | 10.13 | 0.063 | 1.60 |
| **5323C** | 15 | 0.426 | 10.82 | 0.063 | 1.60 |
| **5324C** | 19 | 0.448 | 11.38 | 0.063 | 1.60 |
| **5325C** | 27 | 0.515 | 13.08 | 0.063 | 1.60 |
| **5326C** | 37 | 0.564 | 14.33 | 0.063 | 1.60 |

# Xtra-Guard® 1

## High Performance
## 600 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 2501 VW-1**
**CSA AWM I/II A/B FT4**
**UL MTW**

### Operating Temperature

- –30°C to +105°C (AWM)
- –30°C to +90°C (MTW)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5504** | 4 | 0.386 | 9.80 | 0.063 | 1.60 |
| **5507** | 7 | 0.442 | 11.23 | 0.063 | 1.60 |
| **5509/12** | 12 | 0.549 | 13.94 | 0.063 | 1.60 |

**20 AWG (0.56 mm²)**

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5514** | 4 | 0.405 | 10.29 | 0.063 | 1.60 |
| **5517** | 7 | 0.466 | 11.84 | 0.063 | 1.60 |
| **5519** | 9 | 0.531 | 13.49 | 0.063 | 1.60 |
| **5519/12** | 12 | 0.582 | 14.78 | 0.063 | 1.60 |
| **5519/19** | 19 | 0.675 | 17.15 | 0.063 | 1.60 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5522** | 2 | 0.380 | 9.65 | 0.063 | 1.60 |
| **5523** | 3 | 0.397 | 10.08 | 0.063 | 1.60 |
| **5524** | 4 | 0.427 | 10.85 | 0.063 | 1.60 |
| **5525** | 5 | 0.460 | 11.68 | 0.063 | 1.60 |
| **5527** | 7 | 0.494 | 12.55 | 0.063 | 1.60 |
| **5529** | 9 | 0.563 | 14.30 | 0.063 | 1.60 |
| **5529/12** | 12 | 0.619 | 15.72 | 0.063 | 1.60 |
| **5529/15** | 15 | 0.677 | 17.20 | 0.063 | 1.60 |
| **5529/19** | 19 | 0.760 | 19.30 | 0.083 | 2.11 |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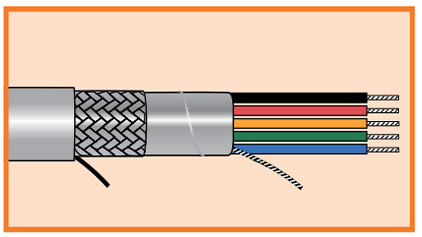
# Xtra-Guard® 1

## High Performance
## 600 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 2501 VW-1**
**CSA AWM I/II A/B FT4**
**UL MTW**

### Operating Temperature

- –30°C to +105°C (AWM)
- –30°C to +90°C (MTW)

### Conductor Color Coding

- Chart E (page 532)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5532** | 2 | 0.404 | 10.26 | 0.063 | 1.60 |
| **5533** | 3 | 0.423 | 10.74 | 0.063 | 1.60 |
| **5534** | 4 | 0.456 | 11.58 | 0.063 | 1.60 |
| **5535** | 5 | 0.492 | 12.50 | 0.063 | 1.60 |
| **5537** | 7 | 0.530 | 13.46 | 0.063 | 1.60 |
| **5539** | 9 | 0.607 | 15.42 | 0.063 | 1.60 |
| **5539/12** | 12 | 0.675 | 17.15 | 0.063 | 1.60 |
| **5539/15** | 15 | 0.772 | 19.61 | 0.063 | 1.60 |
| **5539/19** | 19 | 0.820 | 20.83 | 0.083 | 2.11 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part Number | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5542** | 2 | 0.434 | 11.02 | 0.063 | 1.60 |
| **5543** | 3 | 0.456 | 11.58 | 0.063 | 1.60 |
| **5544** | 4 | 0.492 | 12.50 | 0.063 | 1.60 |
| **5547** | 7 | 0.575 | 14.61 | 0.063 | 1.60 |
| **5549** | 9 | 0.668 | 16.97 | 0.063 | 1.60 |
| **5549/12** | 12 | 0.777 | 19.74 | 0.083 | 2.11 |
| **5549/15** | 15 | 0.841 | 21.36 | 0.083 | 2.11 |

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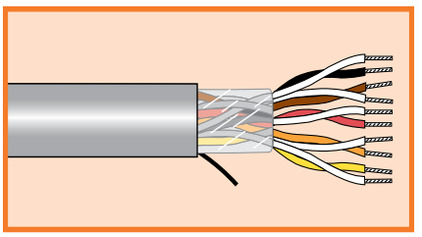
# Xtra-Guard® 1

## High Performance
## 300 V Unshielded, Multipair



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5261C** | 1 | 0.156 | 3.96 | 0.032 | 0.81 |
| **5262C** | 2 | 0.212 | 5.38 | 0.032 | 0.81 |
| **5263C** | 3 | 0.224 | 5.69 | 0.032 | 0.81 |
| **5264C** | 4 | 0.243 | 6.17 | 0.032 | 0.81 |
| **5265C** | 5 | 0.264 | 6.71 | 0.032 | 0.81 |
| **5266C** | 6 | 0.286 | 7.26 | 0.032 | 0.81 |
| **5269C** | 9 | 0.332 | 8.43 | 0.032 | 0.81 |
| **5269/11C** | 11 | 0.357 | 9.07 | 0.032 | 0.81 |
| **5269/15C** | 15 | 0.401 | 10.19 | 0.032 | 0.81 |
| **5269/27C** | 27 | 0.512 | 13.00 | 0.032 | 0.81 |
| **5269/77C** | 77 | 0.904 | 22.96 | 0.083 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5021C** | 1 | 0.168 | 4.27 | 0.032 | 0.81 |
| **5022C** | 2 | 0.232 | 5.89 | 0.032 | 0.81 |
| **5023C** | 3 | 0.245 | 6.22 | 0.032 | 0.81 |
| **5024C** | 4 | 0.267 | 6.78 | 0.032 | 0.81 |
| **5025C** | 5 | 0.291 | 7.39 | 0.032 | 0.81 |
| **5026C** | 6 | 0.316 | 8.03 | 0.032 | 0.81 |
| **5029/15C** | 15 | 0.447 | 11.35 | 0.032 | 0.81 |



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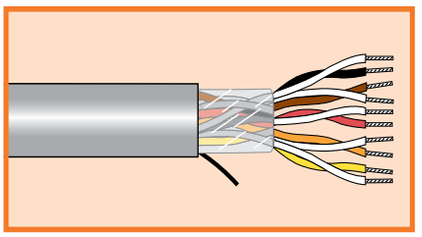
# Xtra-Guard® 1

## High Performance
## 300 V Unshielded, Multipair



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5282C** | 2 | 0.298 | 7.57 | 0.032 | 0.81 |
| **5283C** | 3 | 0.316 | 8.03 | 0.032 | 0.81 |
| **5286C** | 6 | 0.415 | 10.54 | 0.032 | 0.81 |
| **5289C** | 9 | 0.487 | 12.37 | 0.032 | 0.81 |
| **5289/12C** | 12 | 0.545 | 13.84 | 0.032 | 0.81 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5032C** | 2 | 0.327 | 8.31 | 0.032 | 0.81 |
| **5033C** | 3 | 0.348 | 8.84 | 0.032 | 0.81 |
| **5036C** | 6 | 0.460 | 11.68 | 0.032 | 0.81 |
| **5039C** | 9 | 0.541 | 13.74 | 0.053 | 1.35 |
| **5039/12C** | 12 | 0.648 | 16.46 | 0.053 | 1.35 |

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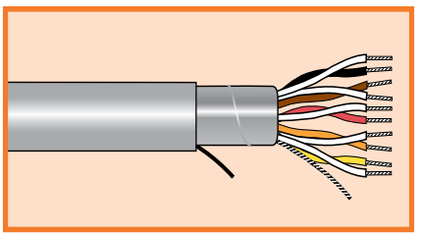
# Xtra-Guard® 1

## High Performance
## 300 V Foil Shield, Multipair



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.12 mm)
Insulation Thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5938** | 2 | 0.187 | 4.75 | 0.032 | 0.81 |
| **5939** | 3 | 0.196 | 4.98 | 0.032 | 0.81 |
| **5940** | 4 | 0.211 | 5.36 | 0.032 | 0.81 |
| **5941** | 5 | 0.228 | 5.79 | 0.032 | 0.81 |
| **5942** | 6 | 0.246 | 6.25 | 0.032 | 0.81 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5690** | 2 | 0.200 | 5.08 | 0.032 | 0.81 |
| **5691** | 3 | 0.210 | 5.33 | 0.032 | 0.81 |
| **5692** | 4 | 0.227 | 5.77 | 0.032 | 0.81 |
| **5693** | 5 | 0.246 | 6.25 | 0.032 | 0.81 |
| **5694** | 6 | 0.265 | 6.73 | 0.032 | 0.81 |

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5491C** | 1 | 0.160 | 4.06 | 0.032 | 0.81 |
| **5492C** | 2 | 0.216 | 5.49 | 0.032 | 0.81 |
| **5493C** | 3 | 0.228 | 5.79 | 0.032 | 0.81 |
| **5494C** | 4 | 0.247 | 6.27 | 0.032 | 0.81 |
| **5495C** | 5 | 0.268 | 6.81 | 0.032 | 0.81 |
| **5496C** | 6 | 0.290 | 7.37 | 0.032 | 0.81 |
| **5499C** | 9 | 0.336 | 8.53 | 0.032 | 0.81 |
| **5499/11C** | 11 | 0.361 | 9.17 | 0.032 | 0.81 |
| **5499/15C** | 15 | 0.405 | 10.29 | 0.032 | 0.81 |
| **5499/19C** | 19 | 0.433 | 11.00 | 0.032 | 0.81 |
| **5499/27C** | 27 | 0.516 | 13.11 | 0.32 | 0.81 |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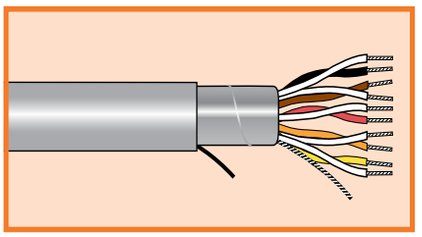
# Xtra-Guard® 1

## High Performance
## 300 V Foil Shield, Multipair



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5481C** | 1 | 0.172 | 4.37 | 0.032 | 0.81 |
| **5482C** | 2 | 0.236 | 5.99 | 0.032 | 0.81 |
| **5483C** | 3 | 0.249 | 6.32 | 0.032 | 0.81 |
| **5484C** | 4 | 0.271 | 6.88 | 0.032 | 0.81 |
| **5485C** | 5 | 0.295 | 7.49 | 0.032 | 0.81 |
| **5486C** | 6 | 0.320 | 8.13 | 0.032 | 0.81 |
| **5489C** | 9 | 0.372 | 9.45 | 0.032 | 0.81 |
| **5489/11C** | 11 | 0.400 | 10.16 | 0.032 | 0.81 |
| **5489/15C** | 15 | 0.451 | 11.46 | 0.032 | 0.81 |
| **5489/19C** | 19 | 0.483 | 12.27 | 0.032 | 0.81 |
| **5489/27C** | 27 | 0.619 | 15.72 | 0.053 | 1.35 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5452C** | 2 | 0.302 | 7.67 | 0.032 | 0.81 |
| **5453C** | 3 | 0.320 | 8.13 | 0.032 | 0.81 |
| **5456C** | 6 | 0.419 | 10.64 | 0.032 | 0.81 |
| **5459C** | 9 | 0.491 | 12.47 | 0.032 | 0.81 |
| **5459/12C** | 12 | 0.549 | 13.94 | 0.032 | 0.81 |
| **5459/19C** | 19 | 0.689 | 17.50 | 0.053 | 1.35 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5373C** | 3 | 0.352 | 8.94 | 0.032 | 0.81 |
| **5376C** | 6 | 0.464 | 11.79 | 0.032 | 0.81 |

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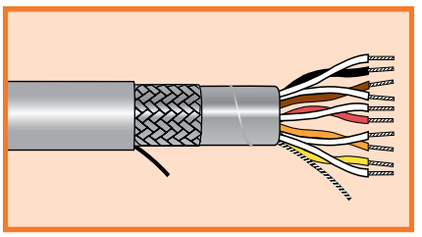
# Xtra-Guard® 1

## High Performance
## 300 V Supra-Shield® Foil/Braid, Multipair



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.12 mm)
Insulation Thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5943** | 2 | 0.211 | 5.36 | 0.032 | 0.81 |
| **5944** | 3 | 0.220 | 5.59 | 0.032 | 0.81 |
| **5945** | 4 | 0.235 | 5.97 | 0.032 | 0.81 |
| **5946** | 5 | 0.252 | 6.40 | 0.032 | 0.81 |
| **5947** | 6 | 0.270 | 6.86 | 0.032 | 0.81 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5695** | 2 | 0.224 | 5.69 | 0.032 | 0.81 |
| **5696** | 3 | 0.234 | 5.94 | 0.032 | 0.81 |
| **5697** | 4 | 0.251 | 6.38 | 0.032 | 0.81 |
| **5698** | 5 | 0.270 | 6.86 | 0.032 | 0.81 |
| **5699** | 6 | 0.289 | 7.34 | 0.032 | 0.81 |

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5271C** | 1 | 0.184 | 4.67 | 0.032 | 0.81 |
| **5272C** | 2 | 0.240 | 6.10 | 0.032 | 0.81 |
| **5273C** | 3 | 0.252 | 6.40 | 0.032 | 0.81 |
| **5274C** | 4 | 0.271 | 6.88 | 0.032 | 0.81 |
| **5275C** | 5 | 0.292 | 7.42 | 0.032 | 0.81 |
| **5276C** | 6 | 0.314 | 7.98 | 0.032 | 0.81 |
| **5279C** | 9 | 0.360 | 9.14 | 0.032 | 0.81 |
| **5279/11C** | 11 | 0.385 | 9.78 | 0.032 | 0.81 |
| **5279/15C** | 15 | 0.429 | 10.90 | 0.032 | 0.81 |
| **5279/19C** | 19 | 0.457 | 11.61 | 0.032 | 0.81 |
| **5279/27C** | 27 | 0.540 | 13.72 | 0.032 | 0.81 |
| **5279/51C** | 51 | 0.739 | 18.77 | 0.053 | 1.35 |



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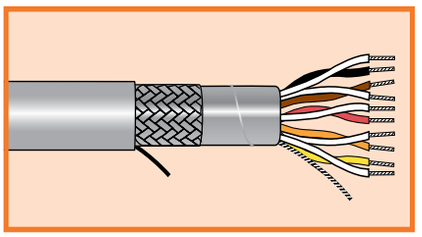
# Xtra-Guard® 1

## High Performance
## 300 V Supra-Shield® Foil/Braid, Multipair



**UL CM**
**UL AWM 2464 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- 28, 26, 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5121C** | 1 | 0.196 | 4.98 | 0.032 | 0.81 |
| **5122C** | 2 | 0.260 | 6.60 | 0.032 | 0.81 |
| **5123C** | 3 | 0.273 | 6.93 | 0.032 | 0.81 |
| **5124C** | 4 | 0.295 | 7.49 | 0.032 | 0.81 |
| **5125C** | 5 | 0.319 | 8.10 | 0.032 | 0.81 |
| **5126C** | 6 | 0.344 | 8.74 | 0.032 | 0.81 |
| **5129C** | 9 | 0.396 | 10.06 | 0.032 | 0.81 |
| **5129/11C** | 11 | 0.424 | 10.77 | 0.032 | 0.81 |
| **5129/15C** | 15 | 0.475 | 12.07 | 0.032 | 0.81 |
| **5129/19C** | 19 | 0.507 | 12.88 | 0.032 | 0.81 |
| **5129/27C** | 27 | 0.649 | 16.48 | 0.053 | 1.35 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5292C** | 2 | 0.326 | 8.28 | 0.032 | 0.81 |
| **5293C** | 3 | 0.344 | 8.74 | 0.032 | 0.81 |
| **5296C** | 6 | 0.443 | 11.25 | 0.032 | 0.81 |
| **5299C** | 9 | 0.515 | 13.08 | 0.032 | 0.81 |
| **5299/19C** | 19 | 0.719 | 18.26 | 0.053 | 1.35 |

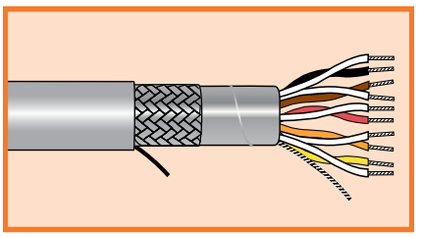
**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5132C** | 2 | 0.355 | 9.02 | 0.032 | 0.81 |
| **5133C** | 3 | 0.376 | 9.55 | 0.032 | 0.81 |
| **5136C** | 6 | 0.488 | 12.40 | 0.032 | 0.81 |
| **5139C** | 9 | 0.611 | 15.52 | 0.053 | 1.35 |
| **5139/27C** | 27 | 1.004 | 25.50 | 0.083 | 2.11 |

# Xtra-Guard® 1

## High Performance
## 300 V Supra-Shield® Foil/Braid, Multipair



**UL CM**
**UL AWM 2343 VW-1**
**CSA CMG FT4**

### Operating Temperature

- –30°C to +80°C (AWM)
- –30°C to +105°C (CM)

### Conductor Color Coding

- Chart B (page 528)
- Jacket Colors
  - Put-ups: slate
  - Bulk: nine colors available (page 31, minimums may apply)

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord
- Premium PVC jacket
- UV resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin (indoor)
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin (outdoor)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5330C** | 5 | 0.354 | 8.99 | 0.063 | 1.60 |
| **5331C** | 7 | 0.376 | 9.55 | 0.063 | 1.60 |
| **5332C** | 12 | 0.458 | 11.63 | 0.063 | 1.60 |
| **5333C** | 15 | 0.491 | 12.47 | 0.063 | 1.60 |
| **5334C** | 19 | 0.519 | 13.18 | 0.063 | 1.60 |
| **5335C** | 27 | 0.602 | 15.29 | 0.063 | 1.60 |
| **5336C** | 37 | 0.669 | 16.99 | 0.063 | 1.60 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5340/2C** | 2 | 0.322 | 8.18 | 0.063 | 1.60 |
| **5340C** | 5 | 0.381 | 9.68 | 0.063 | 1.60 |
| **5341C** | 7 | 0.406 | 10.31 | 0.063 | 1.60 |
| **5342C** | 12 | 0.499 | 12.67 | 0.063 | 1.60 |
| **5344C** | 19 | 0.569 | 14.45 | 0.063 | 1.60 |
| **5345C** | 27 | 0.669 | 16.99 | 0.063 | 1.60 |
| **5346C** | 37 | 0.738 | 18.75 | 0.063 | 1.60 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5350/4C** | 4 | 0.388 | 9.86 | 0.063 | 1.60 |
| **5350C** | 5 | 0.416 | 10.57 | 0.063 | 1.60 |
| **5351C** | 7 | 0.446 | 11.33 | 0.063 | 1.60 |
| **5351/9C** | 9 | 0.505 | 12.83 | 0.063 | 1.60 |
| **5353C** | 15 | 0.597 | 15.16 | 0.063 | 1.60 |
| **5354C** | 19 | 0.634 | 16.10 | 0.063 | 1.60 |
| **5355C** | 27 | 0.749 | 19.02 | 0.063 | 1.60 |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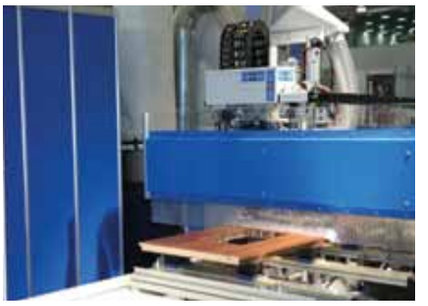
# Xtra-Guard® 2

## Oil and Abrasion Resistant



### Features

- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- Specially formulated, rugged polyurethane jacket offering three times the tear and abrasion resistance of ordinary PVC
- Resistance to cut-through and physical damage
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® foil/braid
- Temperature ratings to 90°C (300 V) and 105°C (600 V)
- Superior low-temperature flexibility to -30°C
- Outstanding ultraviolet light stability in all jacket colors
- UL VW-1 and CSA FT-1 flammability ratings
- Nylon ripcord for easy jacket stripping

### Applications

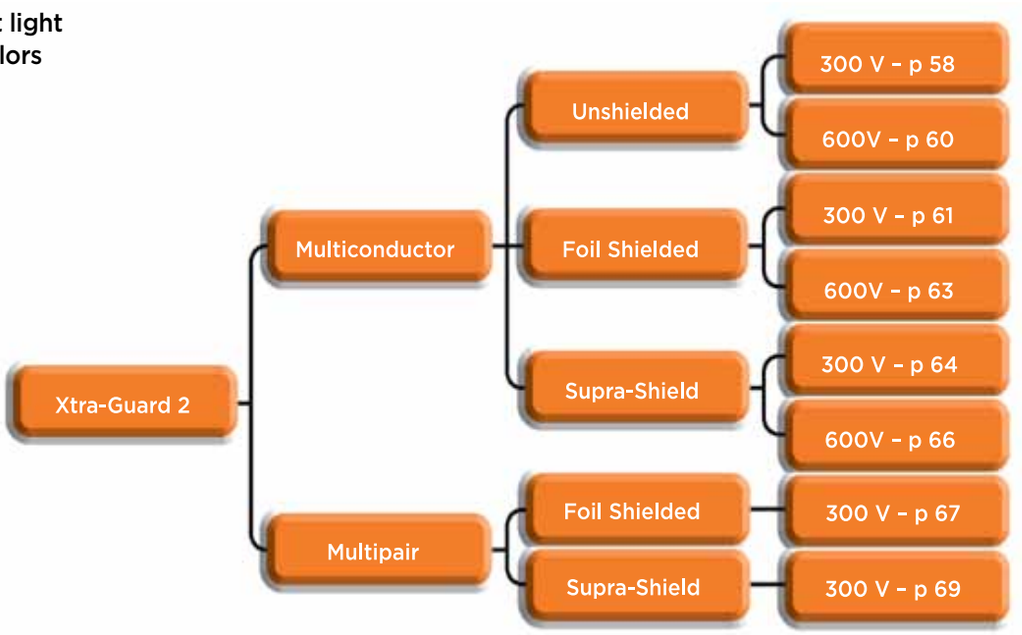
- CNC machine centers
- Automotive assembly plant operations
- Military ground support systems
- Packaging machinery
- Petrochemical plant operations
- Geophysical exploration equipment

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

| | | |
|---|---|---|
| SLATE | BEIGE | WHITE |
| RED | BLACK | BLUE |
| GREEN | YELLOW | ORANGE |

Xtra-Guard cables are available in a range of long-lasting colors for fast, easy identification, for safety reasons, and for matching the color of your system.

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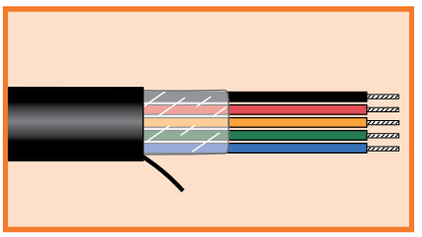
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 300 V Unshielded, Multiconductor



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- –30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25012** | 2 | 0.156 | 3.96 | 0.032 | 0.81 |
| **25013** | 3 | 0.163 | 4.14 | 0.032 | 0.81 |
| **25014** | 4 | 0.175 | 4.45 | 0.032 | 0.81 |
| **25016** | 6 | 0.201 | 5.11 | 0.032 | 0.81 |
| **25018** | 8 | 0.215 | 5.46 | 0.032 | 0.81 |
| **25020** | 10 | 0.244 | 6.20 | 0.032 | 0.81 |
| **25020/15** | 15 | 0.271 | 6.88 | 0.032 | 0.81 |
| **25020/20** | 20 | 0.300 | 7.62 | 0.032 | 0.81 |
| **25020/25** | 25 | 0.332 | 8.43 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25002** | 2 | 0.168 | 4.27 | 0.032 | 0.81 |
| **25003** | 3 | 0.176 | 4.47 | 0.032 | 0.81 |
| **25004** | 4 | 0.189 | 4.80 | 0.032 | 0.81 |
| **25006** | 6 | 0.219 | 5.56 | 0.032 | 0.81 |
| **25008** | 8 | 0.235 | 5.97 | 0.032 | 0.81 |
| **25010** | 10 | 0.268 | 6.81 | 0.032 | 0.81 |
| **25010/15** | 15 | 0.299 | 7.59 | 0.032 | 0.81 |
| **25010/20** | 20 | 0.331 | 8.41 | 0.032 | 0.81 |
| **25010/25** | 25 | 0.368 | 9.35 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25052** | 2 | 0.208 | 5.28 | 0.032 | 0.81 |
| **25053** | 3 | 0.219 | 5.56 | 0.032 | 0.81 |
| **25054** | 4 | 0.238 | 6.05 | 0.032 | 0.81 |
| **25056** | 6 | 0.280 | 7.11 | 0.032 | 0.81 |
| **25058** | 8 | 0.302 | 7.67 | 0.032 | 0.81 |
| **25060** | 10 | 0.348 | 8.84 | 0.032 | 0.81 |
| **25060/15** | 15 | 0.391 | 9.93 | 0.032 | 0.81 |
| **25060/20** | 20 | 0.437 | 11.10 | 0.032 | 0.81 |
| **25060/25** | 25 | 0.488 | 12.40 | 0.032 | 0.81 |
| **25060/30** | 30 | 0.517 | 13.13 | 0.032 | 0.81 |
| **25060/40** | 40 | 0.622 | 15.80 | 0.053 | 1.35 |
| **25060/50** | 50 | 0.684 | 17.37 | 0.053 | 1.35 |
| **25060/60** | 60 | 0.740 | 18.80 | 0.053 | 1.35 |
| **25060/70** | 70 | 0.859 | 21.82 | 0.053 | 1.35 |



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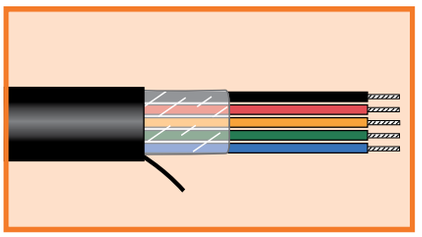
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 300 V Unshielded, Multiconductor



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25062** | 2 | 0.226 | 5.74 | 0.032 | 0.81 |
| **25062/1*** | 2 | 0.226 | 5.74 | 0.032 | 0.81 |
| **25063** | 3 | 0.238 | 6.05 | 0.032 | 0.81 |
| **25063/1*** | 3 | 0.238 | 6.05 | 0.032 | 0.81 |
| **25064** | 4 | 0.259 | 6.58 | 0.032 | 0.81 |
| **25066** | 6 | 0.307 | 7.80 | 0.032 | 0.81 |
| **25068** | 8 | 0.332 | 8.43 | 0.032 | 0.81 |
| **25070** | 10 | 0.384 | 9.75 | 0.032 | 0.81 |
| **25070/15** | 15 | 0.433 | 11.00 | 0.032 | 0.81 |
| **25070/20** | 20 | 0.484 | 12.29 | 0.032 | 0.81 |
| **25070/25** | 25 | 0.542 | 13.77 | 0.032 | 0.81 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25072** | 2 | 0.250 | 6.35 | 0.032 | 0.81 |
| **25072/1*** | 2 | 0.250 | 6.35 | 0.032 | 0.81 |
| **25073** | 3 | 0.264 | 6.71 | 0.032 | 0.81 |
| **25073/1*** | 3 | 0.264 | 6.71 | 0.032 | 0.81 |
| **25074** | 4 | 0.288 | 7.32 | 0.032 | 0.81 |
| **25076** | 6 | 0.343 | 8.71 | 0.032 | 0.81 |
| **25078** | 8 | 0.372 | 9.45 | 0.032 | 0.81 |
| **25080** | 10 | 0.432 | 10.97 | 0.032 | 0.81 |
| **25080/15** | 15 | 0.488 | 12.40 | 0.032 | 0.81 |
| **25080/20** | 20 | 0.547 | 13.89 | 0.053 | 1.35 |
| **25080/25** | 25 | 0.656 | 16.66 | 0.053 | 1.35 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

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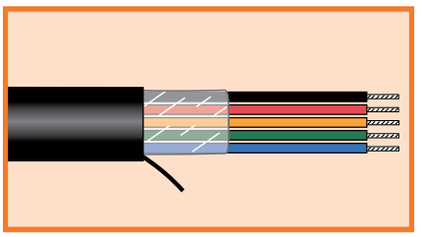
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 600 V Unshielded, Multiconductor



**UL AWM 20952 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- –30°C to +105°C

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25422** | 2 | 0.352 | 8.94 | 0.063 | 1.60 |
| **25423** | 3 | 0.369 | 9.37 | 0.063 | 1.60 |
| **25424** | 4 | 0.399 | 10.13 | 0.063 | 1.60 |
| **25427** | 7 | 0.466 | 11.84 | 0.063 | 1.60 |
| **25429** | 9 | 0.535 | 13.59 | 0.063 | 1.60 |
| **25429/12** | 12 | 0.591 | 15.01 | 0.063 | 1.60 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25432** | 2 | 0.376 | 9.55 | 0.063 | 1.60 |
| **25433** | 3 | 0.395 | 10.03 | 0.063 | 1.60 |
| **25434** | 4 | 0.428 | 10.87 | 0.063 | 1.60 |
| **25435** | 5 | 0.464 | 11.79 | 0.063 | 1.60 |
| **25439** | 9 | 0.579 | 14.71 | 0.063 | 1.60 |
| **25439/12** | 12 | 0.641 | 16.28 | 0.063 | 1.60 |
| **25439/19** | 19 | 0.746 | 18.95 | 0.083 | 2.11 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25442** | 2 | 0.406 | 10.31 | 0.063 | 1.60 |
| **25443** | 3 | 0.428 | 10.87 | 0.063 | 1.60 |
| **25444** | 4 | 0.464 | 11.79 | 0.063 | 1.60 |
| **25445** | 5 | 0.505 | 12.83 | 0.063 | 1.60 |
| **25449** | 9 | 0.634 | 16.10 | 0.063 | 1.60 |
| **25449/12** | 12 | 0.703 | 17.86 | 0.063 | 1.60 |

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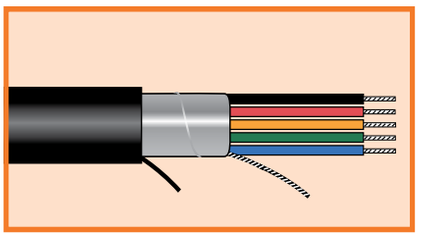
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 300 V Foil Shielded, Multiconductor



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25092** | 2 | 0.160 | 4.06 | 0.032 | 0.81 |
| **25093** | 3 | 0.167 | 4.24 | 0.032 | 0.81 |
| **25094** | 4 | 0.179 | 4.55 | 0.032 | 0.81 |
| **25096** | 6 | 0.205 | 5.21 | 0.032 | 0.81 |
| **25098** | 8 | 0.219 | 5.56 | 0.032 | 0.81 |
| **25100** | 10 | 0.248 | 6.30 | 0.032 | 0.81 |
| **25100/15** | 15 | 0.275 | 6.99 | 0.032 | 0.81 |
| **25100/20** | 20 | 0.304 | 7.72 | 0.032 | 0.81 |
| **25100/25** | 25 | 0.336 | 8.53 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25192** | 2 | 0.172 | 4.37 | 0.032 | 0.81 |
| **25193** | 3 | 0.180 | 4.57 | 0.032 | 0.81 |
| **25194** | 4 | 0.193 | 4.90 | 0.032 | 0.81 |
| **25196** | 6 | 0.223 | 5.66 | 0.032 | 0.81 |
| **25198** | 8 | 0.239 | 6.07 | 0.032 | 0.81 |
| **25199/10** | 10 | 0.272 | 6.91 | 0.032 | 0.81 |
| **25199/15** | 15 | 0.303 | 7.70 | 0.032 | 0.81 |
| **25199/20** | 20 | 0.335 | 8.51 | 0.032 | 0.81 |
| **25199/25** | 25 | 0.372 | 9.45 | 0.032 | 0.81 |
| **25199/30** | 30 | 0.393 | 9.98 | 0.032 | 0.81 |
| **25199/40** | 40 | 0.438 | 11.13 | 0.032 | 0.81 |
| **25199/50** | 50 | 0.482 | 12.24 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25462** | 2 | 0.212 | 5.38 | 0.032 | 0.81 |
| **25463** | 3 | 0.223 | 5.66 | 0.032 | 0.81 |
| **25464** | 4 | 0.242 | 6.15 | 0.032 | 0.81 |
| **25466** | 6 | 0.284 | 7.21 | 0.032 | 0.81 |
| **25468** | 8 | 0.306 | 7.77 | 0.032 | 0.81 |
| **25470** | 10 | 0.352 | 8.94 | 0.032 | 0.81 |
| **25470/15** | 15 | 0.395 | 10.03 | 0.032 | 0.81 |
| **25470/20** | 20 | 0.441 | 11.20 | 0.032 | 0.81 |
| **25470/25** | 25 | 0.492 | 12.50 | 0.032 | 0.81 |
| **25470/30** | 30 | 0.521 | 13.23 | 0.032 | 0.81 |
| **25470/40** | 40 | 0.626 | 15.90 | 0.053 | 1.35 |
| **25470/50** | 50 | 0.688 | 17.48 | 0.053 | 1.35 |

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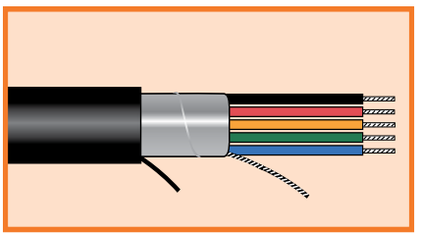
# Xtra-Guard® 2

## Oil and Abrasion Resistant 300 V Foil Shielded, Multiconductor



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- –30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25382** | 2 | 0.230 | 5.84 | 0.032 | 0.81 |
| **25382/1*** | 2 | 0.230 | 5.84 | 0.032 | 0.81 |
| **25383** | 3 | 0.242 | 6.14 | 0.032 | 0.81 |
| **25383/1*** | 3 | 0.242 | 6.14 | 0.032 | 0.81 |
| **25384** | 4 | 0.263 | 6.68 | 0.032 | 0.81 |
| **25386** | 6 | 0.311 | 7.90 | 0.032 | 0.81 |
| **25388** | 8 | 0.336 | 8.53 | 0.032 | 0.81 |
| **25390** | 10 | 0.388 | 9.86 | 0.032 | 0.81 |
| **25390/15** | 15 | 0.437 | 11.10 | 0.032 | 0.81 |
| **25390/20** | 20 | 0.488 | 12.40 | 0.032 | 0.81 |
| **25390/25** | 25 | 0.588 | 14.94 | 0.053 | 1.35 |
| **25390/30** | 30 | 0.621 | 15.77 | 0.053 | 1.35 |
| **25390/40** | 40 | 0.692 | 17.58 | 0.053 | 1.35 |
| **25390/50** | 50 | 0.762 | 19.35 | 0.053 | 1.35 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25362** | 2 | 0.254 | 6.45 | 0.032 | 0.81 |
| **25362/1*** | 2 | 0.254 | 6.45 | 0.032 | 0.81 |
| **25363** | 3 | 0.268 | 6.81 | 0.032 | 0.81 |
| **25363/1*** | 3 | 0.268 | 6.81 | 0.032 | 0.81 |
| **25364** | 4 | 0.292 | 7.42 | 0.032 | 0.81 |
| **25366** | 6 | 0.347 | 8.81 | 0.032 | 0.81 |
| **25368** | 8 | 0.376 | 9.55 | 0.032 | 0.81 |
| **25370** | 10 | 0.436 | 11.07 | 0.032 | 0.81 |
| **25370/15** | 15 | 0.492 | 12.50 | 0.032 | 0.81 |
| **25370/20** | 20 | 0.593 | 15.06 | 0.053 | 1.35 |
| **25370/25** | 25 | 0.660 | 16.76 | 0.053 | 1.35 |
| **25370/30** | 30 | 0.698 | 17.73 | 0.053 | 1.35 |
| **25370/40** | 40 | 0.779 | 19.79 | 0.083 | 2.11 |
| **25370/50** | 50 | 0.921 | 23.39 | 0.083 | 2.11 |

*Conductors color-coded per international standards: brown, blue, green/yellow.



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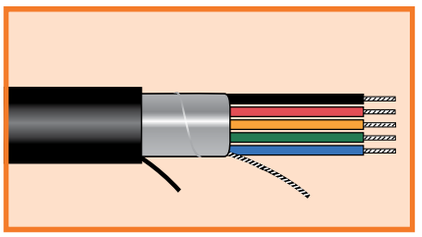
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 600 V Foil Shielded, Multiconductor



**UL AWM 20952 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -30°C to +105°C

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25430/2** | 2 | 0.356 | 9.04 | 0.063 | 1.60 |
| **25430/3** | 3 | 0.373 | 9.47 | 0.063 | 1.60 |
| **25430/4** | 4 | 0.403 | 10.24 | 0.063 | 1.60 |
| **25430/5** | 5 | 0.436 | 11.07 | 0.063 | 1.60 |
| **25430/7** | 7 | 0.470 | 11.94 | 0.063 | 1.60 |
| **25430/9** | 9 | 0.539 | 13.69 | 0.063 | 1.60 |
| **25430/12** | 12 | 0.595 | 15.11 | 0.063 | 1.60 |
| **25430/15** | 15 | 0.647 | 16.43 | 0.063 | 1.60 |
| **25430/19** | 19 | 0.690 | 17.53 | 0.063 | 1.60 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25440/2** | 2 | 0.380 | 9.65 | 0.063 | 1.60 |
| **25440/3** | 3 | 0.399 | 10.13 | 0.063 | 1.60 |
| **25440/4** | 4 | 0.432 | 10.97 | 0.063 | 1.60 |
| **25440/5** | 5 | 0.468 | 11.89 | 0.063 | 1.60 |
| **25440/7** | 7 | 0.506 | 12.85 | 0.063 | 1.60 |
| **25440/9** | 9 | 0.583 | 14.81 | 0.063 | 1.60 |
| **25440/12** | 12 | 0.645 | 16.38 | 0.063 | 1.60 |
| **25440/15** | 15 | 0.702 | 17.83 | 0.063 | 1.60 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25450/2** | 2 | 0.410 | 10.41 | 0.063 | 1.60 |
| **25450/3** | 3 | 0.432 | 10.97 | 0.063 | 1.60 |
| **25450/4** | 4 | 0.468 | 11.89 | 0.063 | 1.60 |
| **25450/5** | 5 | 0.509 | 12.93 | 0.063 | 1.60 |
| **25450/7** | 7 | 0.551 | 14.00 | 0.063 | 1.60 |
| **25450/9** | 9 | 0.638 | 16.21 | 0.063 | 1.60 |
| **25450/12** | 12 | 0.707 | 17.96 | 0.063 | 1.60 |
| **25450/15** | 15 | 0.771 | 19.58 | 0.063 | 1.60 |

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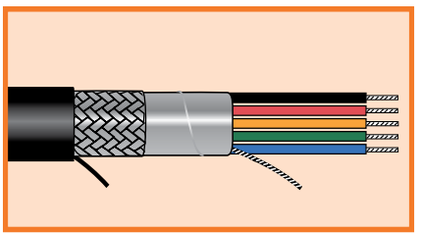
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25112** | 2 | 0.184 | 4.67 | 0.032 | 0.81 |
| **25113** | 3 | 0.191 | 4.85 | 0.032 | 0.81 |
| **25114** | 4 | 0.203 | 5.16 | 0.032 | 0.81 |
| **25116** | 6 | 0.229 | 5.82 | 0.032 | 0.81 |
| **25118** | 8 | 0.243 | 6.17 | 0.032 | 0.81 |
| **25120** | 10 | 0.272 | 6.91 | 0.032 | 0.81 |
| **25120/15** | 15 | 0.299 | 7.59 | 0.032 | 0.81 |
| **25120/20** | 20 | 0.328 | 8.33 | 0.032 | 0.81 |
| **25120/25** | 25 | 0.360 | 9.14 | 0.032 | 0.81 |
| **25120/30** | 30 | 0.378 | 9.60 | 0.032 | 0.81 |
| **25120/40** | 40 | 0.418 | 10.62 | 0.032 | 0.81 |
| **25120/50** | 50 | 0.457 | 11.61 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25102** | 2 | 0.196 | 4.97 | 0.032 | 0.81 |
| **25103** | 3 | 0.204 | 5.18 | 0.032 | 0.81 |
| **25104** | 4 | 0.217 | 5.51 | 0.032 | 0.81 |
| **25106** | 6 | 0.247 | 6.27 | 0.032 | 0.81 |
| **25108** | 8 | 0.263 | 6.68 | 0.032 | 0.81 |
| **25110** | 10 | 0.296 | 7.52 | 0.032 | 0.81 |
| **25110/15** | 15 | 0.327 | 8.31 | 0.032 | 0.81 |
| **25110/20** | 20 | 0.359 | 9.12 | 0.032 | 0.81 |
| **25110/25** | 25 | 0.396 | 10.06 | 0.032 | 0.81 |
| **25110/30** | 30 | 0.417 | 10.59 | 0.032 | 0.81 |
| **25110/40** | 40 | 0.462 | 11.73 | 0.032 | 0.81 |
| **25110/50** | 50 | 0.506 | 12.85 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25152** | 2 | 0.236 | 5.99 | 0.032 | 0.81 |
| **25153** | 3 | 0.247 | 6.27 | 0.032 | 0.81 |
| **25154** | 4 | 0.266 | 6.76 | 0.032 | 0.81 |
| **25156** | 6 | 0.308 | 7.82 | 0.032 | 0.81 |
| **25158** | 8 | 0.330 | 8.38 | 0.032 | 0.81 |
| **25160** | 10 | 0.376 | 9.55 | 0.032 | 0.81 |
| **25160/15** | 15 | 0.419 | 10.64 | 0.032 | 0.81 |
| **25160/20** | 20 | 0.465 | 11.81 | 0.032 | 0.81 |
| **25160/25** | 25 | 0.516 | 13.11 | 0.032 | 0.81 |
| **25160/30** | 30 | 0.545 | 13.84 | 0.032 | 0.81 |
| **25160/40** | 40 | 0.656 | 16.66 | 0.053 | 1.35 |
| **25160/50** | 50 | 0.718 | 18.24 | 0.053 | 1.35 |

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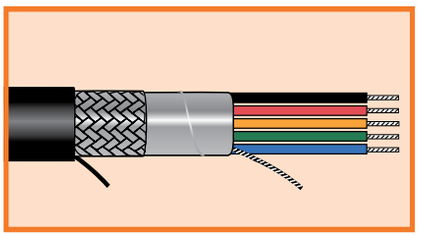
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25162** | 2 | 0.254 | 6.45 | 0.032 | 0.81 |
| **25162/1*** | 2 | 0.254 | 6.45 | 0.032 | 0.81 |
| **25163** | 3 | 0.266 | 6.76 | 0.032 | 0.81 |
| **25163/1*** | 3 | 0.266 | 6.76 | 0.032 | 0.81 |
| **25164** | 4 | 0.287 | 7.29 | 0.032 | 0.81 |
| **25166** | 6 | 0.335 | 8.51 | 0.032 | 0.81 |
| **25168** | 8 | 0.360 | 9.14 | 0.032 | 0.81 |
| **25170** | 10 | 0.412 | 10.46 | 0.032 | 0.81 |
| **25170/15** | 15 | 0.461 | 11.71 | 0.032 | 0.81 |
| **25170/20** | 20 | 0.512 | 13.00 | 0.032 | 0.81 |
| **25170/25** | 25 | 0.612 | 15.54 | 0.053 | 1.35 |
| **25170/30** | 30 | 0.651 | 16.54 | 0.053 | 1.35 |
| **25170/40** | 40 | 0.722 | 18.34 | 0.053 | 1.35 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25172** | 2 | 0.278 | 7.06 | 0.032 | 0.81 |
| **25172/1*** | 2 | 0.278 | 7.06 | 0.032 | 0.81 |
| **25173** | 3 | 0.292 | 7.42 | 0.032 | 0.81 |
| **25173/1*** | 3 | 0.292 | 7.42 | 0.032 | 0.81 |
| **25174** | 4 | 0.316 | 8.03 | 0.032 | 0.81 |
| **25176** | 6 | 0.371 | 9.42 | 0.032 | 0.81 |
| **25178** | 8 | 0.400 | 10.16 | 0.032 | 0.81 |
| **25180** | 10 | 0.460 | 11.68 | 0.032 | 0.81 |
| **25180/15** | 15 | 0.516 | 13.11 | 0.032 | 0.81 |
| **25180/20** | 20 | 0.617 | 15.67 | 0.053 | 1.35 |
| **25180/25** | 25 | 0.690 | 17.53 | 0.053 | 1.35 |
| **25180/30** | 30 | 0.728 | 18.49 | 0.053 | 1.35 |
| **25180/40** | 40 | 0.869 | 22.07 | 0.083 | 2.11 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

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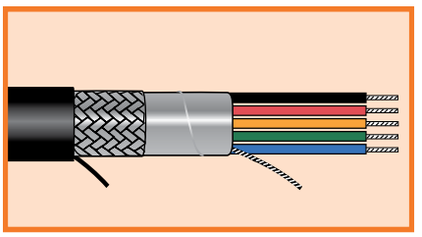
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 600 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 20952 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- –30°C to +105°C

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25522** | 2 | 0.380 | 9.65 | 0.063 | 1.60 |
| **25523** | 3 | 0.397 | 10.08 | 0.063 | 1.60 |
| **25524** | 4 | 0.427 | 10.85 | 0.063 | 1.60 |
| **25525** | 5 | 0.460 | 11.68 | 0.063 | 1.60 |
| **25527** | 7 | 0.494 | 12.55 | 0.063 | 1.60 |
| **25529** | 9 | 0.563 | 14.30 | 0.063 | 1.60 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25532** | 2 | 0.404 | 10.26 | 0.063 | 1.60 |
| **25533** | 3 | 0.423 | 10.74 | 0.063 | 1.60 |
| **25534** | 4 | 0.456 | 11.58 | 0.063 | 1.60 |
| **25535** | 5 | 0.492 | 12.50 | 0.063 | 1.60 |
| **25537** | 7 | 0.530 | 13.46 | 0.063 | 1.60 |
| **25539** | 9 | 0.607 | 15.42 | 0.063 | 1.60 |
| **25539/12** | 12 | 0.675 | 17.15 | 0.063 | 1.60 |
| **25539/15** | 15 | 0.772 | 19.61 | 0.083 | 2.11 |
| **25539/19** | 19 | 0.820 | 20.83 | 0.083 | 2.11 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25542** | 2 | 0.434 | 11.02 | 0.063 | 1.60 |
| **25543** | 3 | 0.456 | 11.58 | 0.063 | 1.60 |
| **25544** | 4 | 0.492 | 12.50 | 0.063 | 1.60 |
| **25545** | 5 | 0.533 | 13.54 | 0.063 | 1.60 |
| **25547** | 7 | 0.575 | 14.61 | 0.063 | 1.60 |
| **25549** | 9 | 0.668 | 16.97 | 0.063 | 1.60 |
| **25549/12** | 12 | 0.777 | 19.74 | 0.083 | 2.11 |

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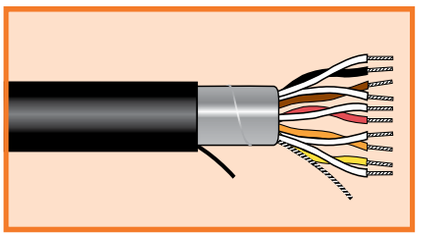
# Xtra-Guard® 2

## Oil and Abrasion Resistant 300 V Foil Shield, Multipair



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25491** | 1 | 0.160 | 4.06 | 0.032 | 0.81 |
| **25492** | 2 | 0.216 | 5.48 | 0.032 | 0.81 |
| **25493** | 3 | 0.228 | 5.79 | 0.032 | 0.81 |
| **25494** | 4 | 0.247 | 6.27 | 0.032 | 0.81 |
| **25495** | 5 | 0.268 | 6.81 | 0.032 | 0.81 |
| **25496** | 6 | 0.290 | 7.37 | 0.032 | 0.81 |
| **25499** | 9 | 0.336 | 8.53 | 0.032 | 0.81 |
| **25499/11** | 11 | 0.361 | 9.17 | 0.032 | 0.81 |
| **25499/15** | 15 | 0.405 | 10.29 | 0.032 | 0.81 |
| **25499/19** | 19 | 0.433 | 11.00 | 0.032 | 0.81 |
| **25499/27** | 27 | 0.516 | 13.11 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25481** | 1 | 0.172 | 4.37 | 0.032 | 0.81 |
| **25482** | 2 | 0.236 | 5.99 | 0.032 | 0.81 |
| **25483** | 3 | 0.249 | 6.32 | 0.032 | 0.81 |
| **25484** | 4 | 0.271 | 6.88 | 0.032 | 0.81 |
| **25485** | 5 | 0.295 | 7.49 | 0.032 | 0.81 |
| **25486** | 6 | 0.320 | 8.13 | 0.032 | 0.81 |
| **25489** | 9 | 0.372 | 9.45 | 0.032 | 0.81 |
| **25489/11** | 11 | 0.400 | 10.16 | 0.032 | 0.81 |
| **25489/15** | 15 | 0.451 | 11.46 | 0.032 | 0.81 |
| **25489/19** | 19 | 0.483 | 12.27 | 0.032 | 0.81 |

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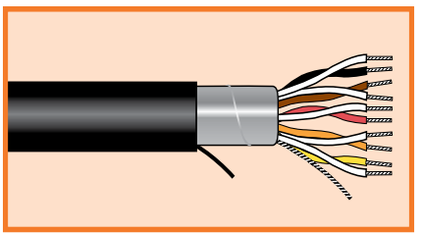
# Xtra-Guard® 2

## Oil and Abrasion Resistant 300 V Foil Shield, Multipair



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Aluminum/polyester/aluminum foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25452** | 2 | 0.302 | 7.67 | 0.032 | 0.81 |
| **25453** | 3 | 0.320 | 8.13 | 0.032 | 0.81 |
| **25456** | 6 | 0.419 | 10.64 | 0.032 | 0.81 |
| **25459** | 9 | 0.491 | 12.47 | 0.032 | 0.81 |
| **25459/12** | 12 | 0.549 | 13.94 | 0.032 | 0.81 |
| **25459/15** | 15 | 0.644 | 16.36 | 0.053 | 1.35 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25372** | 2 | 0.331 | 8.41 | 0.032 | 0.81 |
| **25373** | 3 | 0.352 | 8.94 | 0.032 | 0.81 |
| **25376** | 6 | 0.464 | 11.79 | 0.032 | 0.81 |
| **25379** | 9 | 0.545 | 13.84 | 0.053 | 1.35 |
| **25379/12** | 12 | 0.652 | 16.56 | 0.053 | 1.35 |



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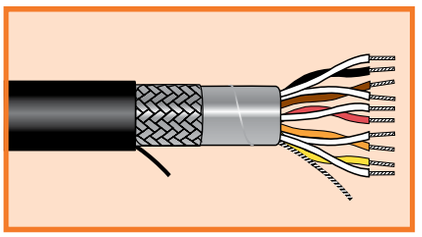
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 300 V Supra-Shield® Foil/Braid, Multipair



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25271** | 1 | 0.184 | 4.67 | 0.032 | 0.81 |
| **25272** | 2 | 0.240 | 6.10 | 0.032 | 0.81 |
| **25273** | 3 | 0.252 | 6.40 | 0.032 | 0.81 |
| **25274** | 4 | 0.271 | 6.88 | 0.032 | 0.81 |
| **25275** | 5 | 0.292 | 7.42 | 0.032 | 0.81 |
| **25276** | 6 | 0.314 | 7.98 | 0.032 | 0.81 |
| **25279** | 9 | 0.360 | 9.14 | 0.032 | 0.81 |
| **25279/11** | 11 | 0.385 | 9.78 | 0.032 | 0.81 |
| **25279/15** | 15 | 0.429 | 10.90 | 0.032 | 0.81 |
| **25279/19** | 19 | 0.457 | 11.61 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25121** | 1 | 0.196 | 4.98 | 0.032 | 0.81 |
| **25122** | 2 | 0.260 | 6.60 | 0.032 | 0.81 |
| **25123** | 3 | 0.273 | 6.93 | 0.032 | 0.81 |
| **25124** | 4 | 0.295 | 7.49 | 0.032 | 0.81 |
| **25125** | 5 | 0.319 | 8.10 | 0.032 | 0.81 |
| **25126** | 6 | 0.344 | 8.74 | 0.032 | 0.81 |
| **25129** | 9 | 0.396 | 10.06 | 0.032 | 0.81 |
| **25129/11** | 11 | 0.424 | 10.77 | 0.032 | 0.81 |
| **25129/15** | 15 | 0.475 | 12.07 | 0.032 | 0.81 |

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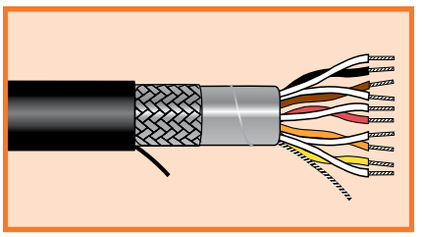
# Xtra-Guard® 2

## Oil and Abrasion Resistant
## 300 V Supra-Shield® Foil/Braid, Multipair



**UL AWM 20668 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- –30°C to +90°C

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyurethane jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-750: Bonding adhesive lined, cross-linked polyolefin

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25292** | 2 | 0.326 | 8.28 | 0.032 | 0.81 |
| **25293** | 3 | 0.344 | 8.74 | 0.032 | 0.81 |
| **25296** | 6 | 0.443 | 11.25 | 0.032 | 0.81 |
| **25299** | 9 | 0.515 | 13.08 | 0.032 | 0.81 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **25132** | 2 | 0.355 | 9.02 | 0.032 | 0.81 |
| **25133** | 3 | 0.376 | 9.55 | 0.032 | 0.81 |
| **25136** | 6 | 0.488 | 12.40 | 0.032 | 0.81 |
| **25139** | 9 | 0.611 | 15.52 | 0.053 | 1.35 |
| **25139/12** | 12 | 0.682 | 17.32 | 0.053 | 1.35 |

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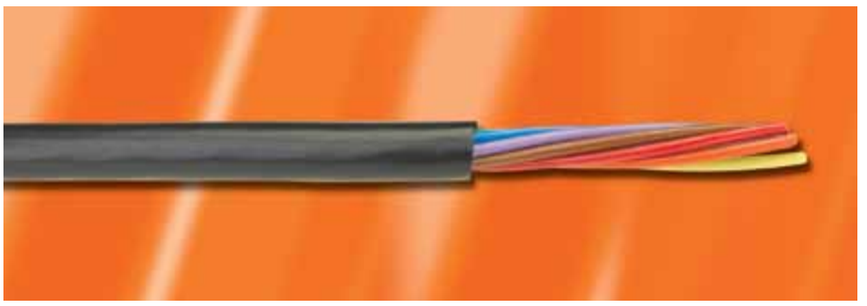
# Xtra-Guard® 3
## Direct Burial



### Features

- The preferred outdoor cable for direct burial
- Resistant to the effects of weathering, moisture, and UV aging without the costly use of conduit
- 6 times the water resistance of PVC
- Specially formulated polyethylene jacket for outstanding service life and ultraviolet light stability in all jacket colors
- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® foil/braid
- Temperature ratings to 80°C
- Outstanding ultraviolet light stability in all jacket colors

### Applications

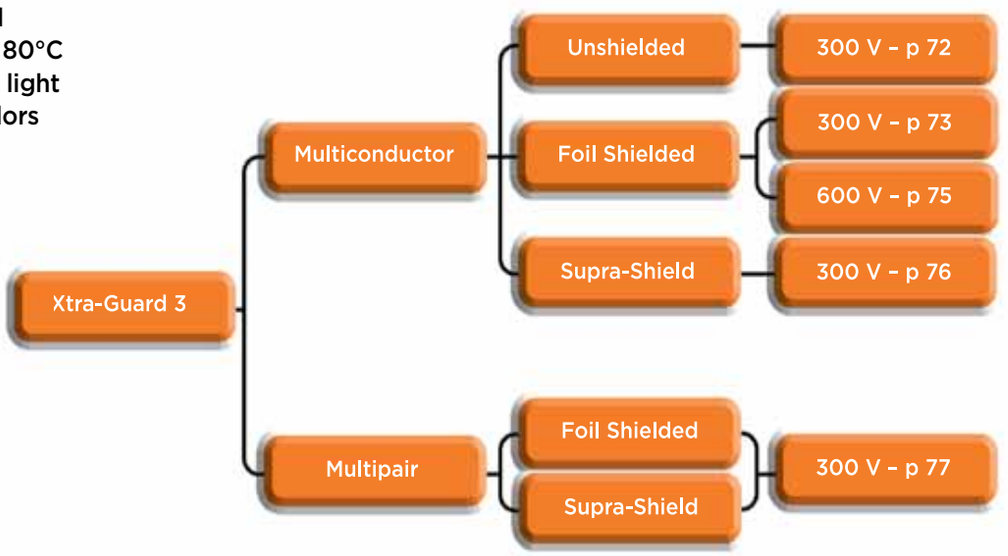
- Interbuilding communications
- Satellite communications equipment
- Land irrigation systems
- Outdoor security systems
- Outdoor scoreboards and displays
- Pipeline sensor controls

### FIT® Tubing Recommendations

- FIT-700: Bonding thermoplastic adhesive lined, cross-linked polyolefin

| | | |
|---|---|---|
| SLATE | BEIGE | WHITE |
| RED | BLACK | BLUE |
| GREEN | YELLOW | ORANGE |

Xtra-Guard cables are available in a range of long-lasting colors for fast, easy identification, for safety reasons, and for matching the color of your system.

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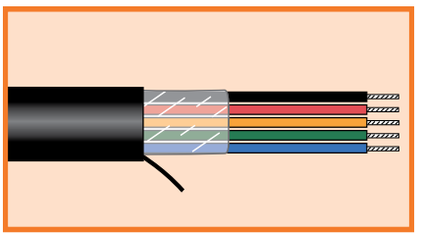
# Xtra-Guard® 3

## Direct Burial
## 300 V Unshielded, Multiconductor



### Operating Temperature

- –30°C to +80°C

### Conductor Color Coding

- 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-700: Bonding, thermoplastic adhesive lined, cross-linked polyolefin

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**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35002** | 2 | 0.167 | 4.24 | 0.032 | 0.81 |
| **35003** | 3 | 0.175 | 4.45 | 0.032 | 0.81 |
| **35004** | 4 | 0.188 | 4.78 | 0.032 | 0.81 |
| **35006** | 6 | 0.218 | 5.54 | 0.032 | 0.81 |
| **35008** | 8 | 0.233 | 5.92 | 0.032 | 0.81 |
| **35010** | 10 | 0.267 | 6.78 | 0.032 | 0.81 |
| **35010/15** | 15 | 0.297 | 7.54 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35052** | 2 | 0.207 | 5.26 | 0.032 | 0.81 |
| **35053** | 3 | 0.218 | 5.54 | 0.032 | 0.81 |
| **35054** | 4 | 0.236 | 5.99 | 0.032 | 0.81 |
| **35056** | 6 | 0.278 | 7.06 | 0.032 | 0.81 |
| **35058** | 8 | 0.300 | 7.62 | 0.032 | 0.81 |
| **35060** | 10 | 0.347 | 8.81 | 0.032 | 0.81 |
| **35060/15** | 15 | 0.389 | 9.88 | 0.032 | 0.81 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35062** | 2 | 0.225 | 5.72 | 0.032 | 0.81 |
| **35063** | 3 | 0.237 | 6.02 | 0.032 | 0.81 |
| **35064** | 4 | 0.258 | 6.55 | 0.032 | 0.81 |
| **35066** | 6 | 0.305 | 7.75 | 0.032 | 0.81 |
| **35068** | 8 | 0.330 | 8.38 | 0.032 | 0.81 |
| **35070** | 10 | 0.383 | 9.73 | 0.032 | 0.81 |
| **35070/15** | 15 | 0.430 | 10.92 | 0.032 | 0.81 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35072** | 2 | 0.249 | 6.32 | 0.032 | 0.81 |
| **35073** | 3 | 0.263 | 6.68 | 0.032 | 0.81 |
| **35074** | 4 | 0.287 | 7.29 | 0.032 | 0.81 |
| **35076** | 6 | 0.341 | 8.66 | 0.032 | 0.81 |
| **35078** | 8 | 0.370 | 9.40 | 0.032 | 0.81 |
| **35080** | 10 | 0.431 | 10.95 | 0.032 | 0.81 |
| **35080/15** | 15 | 0.485 | 12.32 | 0.032 | 0.81 |



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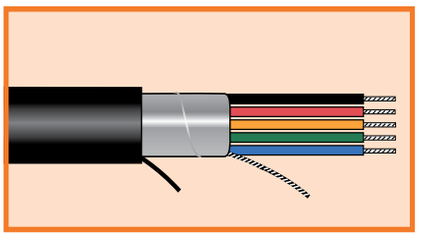
# Xtra-Guard® 3

## Direct Burial
## 300 V Foil Shield, Multiconductor



### Operating Temperature

- –30°C to +80°C

### Conductor Color Coding

- 22 AWG: Chart E (page 532)
- 20 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-700: Bonding, thermoplastic adhesive lined, cross-linked polyolefin

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35192** | 2 | 0.171 | 4.34 | 0.032 | 0.81 |
| **35193** | 3 | 0.179 | 4.55 | 0.032 | 0.81 |
| **35194** | 4 | 0.192 | 4.88 | 0.032 | 0.81 |
| **35196** | 6 | 0.222 | 5.64 | 0.032 | 0.81 |
| **35198** | 8 | 0.237 | 6.02 | 0.032 | 0.81 |
| **35199/10** | 10 | 0.271 | 6.88 | 0.032 | 0.81 |
| **35199/15** | 15 | 0.301 | 7.65 | 0.032 | 0.81 |
| **35199/20** | 20 | 0.333 | 8.46 | 0.032 | 0.81 |
| **35199/25** | 25 | 0.371 | 9.42 | 0.032 | 0.81 |
| **35199/30** | 30 | 0.392 | 9.96 | 0.032 | 0.81 |
| **35199/40** | 40 | 0.436 | 11.07 | 0.032 | 0.81 |
| **35199/50** | 50 | 0.479 | 12.17 | 0.032 | 0.81 |
| **35199/60** | 60 | 0.521 | 13.23 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35462** | 2 | 0.211 | 5.36 | 0.032 | 0.81 |
| **35463** | 3 | 0.222 | 5.64 | 0.032 | 0.81 |
| **35464** | 4 | 0.240 | 6.10 | 0.032 | 0.81 |
| **35466** | 6 | 0.282 | 7.16 | 0.032 | 0.81 |
| **35468** | 8 | 0.304 | 7.72 | 0.032 | 0.81 |
| **35470** | 10 | 0.351 | 8.92 | 0.032 | 0.81 |
| **35470/15** | 15 | 0.393 | 9.98 | 0.032 | 0.81 |
| **35470/20** | 20 | 0.437 | 11.10 | 0.032 | 0.81 |
| **35470/25** | 25 | 0.491 | 12.47 | 0.032 | 0.81 |

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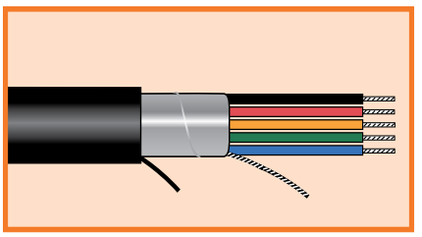
# Xtra-Guard® 3

## Direct Burial
## 300 V Foil Shield, Multiconductor



### Operating Temperature

- –30°C to +80°C

### Conductor Color Coding

- Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-700: Bonding, thermoplastic adhesive lined, cross-linked polyolefin

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35382** | 2 | 0.229 | 5.82 | 0.032 | 0.81 |
| **35383** | 3 | 0.241 | 6.12 | 0.032 | 0.81 |
| **35384** | 4 | 0.262 | 6.65 | 0.032 | 0.81 |
| **35386** | 6 | 0.309 | 7.85 | 0.032 | 0.81 |
| **35388** | 8 | 0.334 | 8.48 | 0.032 | 0.81 |
| **35390** | 10 | 0.387 | 9.83 | 0.032 | 0.81 |
| **35390/15** | 15 | 0.434 | 11.02 | 0.032 | 0.81 |
| **35390/20** | 20 | 0.485 | 12.32 | 0.032 | 0.81 |
| **35390/25** | 25 | 0.587 | 14.91 | 0.053 | 1.35 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35362** | 2 | 0.253 | 6.43 | 0.032 | 0.81 |
| **35363** | 3 | 0.267 | 6.78 | 0.032 | 0.81 |
| **35364** | 4 | 0.291 | 7.39 | 0.032 | 0.81 |
| **35366** | 6 | 0.345 | 8.76 | 0.032 | 0.81 |
| **35368** | 8 | 0.374 | 9.50 | 0.032 | 0.81 |
| **35370** | 10 | 0.435 | 11.05 | 0.032 | 0.81 |
| **35370/15** | 15 | 0.489 | 12.42 | 0.032 | 0.81 |
| **35370/20** | 20 | 0.589 | 14.96 | 0.053 | 1.35 |
| **35370/25** | 25 | 0.659 | 16.74 | 0.053 | 1.35 |

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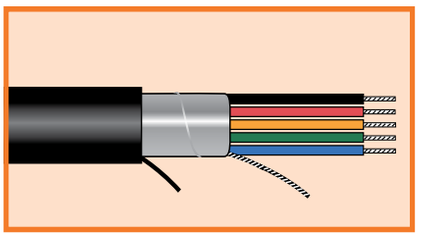
# Xtra-Guard® 3

## Direct Burial
## 600 V Foil Shield, Multiconductor



### Operating Temperature

- -30°C to +80°C

### Conductor Color Coding

- Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-700: Bonding, thermoplastic adhesive lined, cross-linked polyolefin

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35430/2** | 2 | 0.355 | 9.02 | 0.063 | 1.60 |
| **35430/3** | 3 | 0.372 | 9.45 | 0.063 | 1.60 |
| **35430/5** | 5 | 0.434 | 11.02 | 0.063 | 1.60 |
| **35430/7** | 7 | 0.468 | 11.89 | 0.063 | 1.60 |
| **35430/9** | 9 | 0.537 | 13.64 | 0.063 | 1.60 |
| **35430/12** | 12 | 0.594 | 15.09 | 0.063 | 1.60 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35440/2** | 2 | 0.379 | 9.63 | 0.063 | 1.60 |
| **35440/3** | 3 | 0.398 | 10.11 | 0.063 | 1.60 |
| **35440/5** | 5 | 0.466 | 11.84 | 0.063 | 1.60 |
| **35440/7** | 7 | 0.504 | 12.80 | 0.063 | 1.60 |
| **35440/9** | 9 | 0.581 | 14.76 | 0.063 | 1.60 |
| **35440/12** | 12 | 0.644 | 16.36 | 0.063 | 1.60 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35450/2** | 2 | 0.409 | 10.39 | 0.063 | 1.60 |
| **35450/3** | 3 | 0.431 | 10.95 | 0.063 | 1.60 |
| **35450/5** | 5 | 0.507 | 12.88 | 0.063 | 1.60 |
| **35450/7** | 7 | 0.549 | 13.94 | 0.063 | 1.60 |
| **35450/9** | 9 | 0.635 | 16.13 | 0.063 | 1.60 |
| **35450/12** | 12 | 0.706 | 17.93 | 0.063 | 1.60 |

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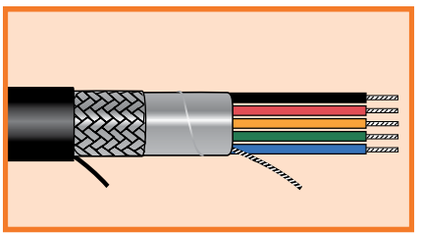
# Xtra-Guard® 3

## Direct Burial
## 300 V Supra-Shield® Foil/Braid, Multiconductor



### Operating Temperature

- –30°C to +80°C

### Conductor Color Coding

- 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-700: Bonding, thermoplastic adhesive lined, cross-linked polyolefin

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**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35102** | 2 | 0.195 | 4.95 | 0.032 | 0.81 |
| **35103** | 3 | 0.203 | 5.16 | 0.032 | 0.81 |
| **35104** | 4 | 0.216 | 5.49 | 0.032 | 0.81 |
| **35106** | 6 | 0.246 | 6.25 | 0.032 | 0.81 |
| **35108** | 8 | 0.261 | 6.63 | 0.032 | 0.81 |
| **35110** | 10 | 0.295 | 7.49 | 0.032 | 0.81 |
| **35110/15** | 15 | 0.325 | 8.26 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35152** | 2 | 0.235 | 5.97 | 0.032 | 0.81 |
| **35153** | 3 | 0.246 | 6.25 | 0.032 | 0.81 |
| **35154** | 4 | 0.264 | 6.71 | 0.032 | 0.81 |
| **35156** | 6 | 0.306 | 7.77 | 0.032 | 0.81 |
| **35158** | 8 | 0.328 | 8.33 | 0.032 | 0.81 |
| **35160** | 10 | 0.375 | 9.53 | 0.032 | 0.81 |
| **35160/15** | 15 | 0.417 | 10.59 | 0.032 | 0.81 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35162** | 2 | 0.253 | 6.43 | 0.032 | 0.81 |
| **35162/1*** | 2 | 0.253 | 6.43 | 0.032 | 0.81 |
| **35163** | 3 | 0.265 | 6.73 | 0.032 | 0.81 |
| **35163/1*** | 3 | 0.265 | 6.73 | 0.032 | 0.81 |
| **35164** | 4 | 0.286 | 7.26 | 0.032 | 0.81 |
| **35166** | 6 | 0.333 | 8.46 | 0.032 | 0.81 |
| **35168** | 8 | 0.358 | 9.09 | 0.032 | 0.81 |
| **35170** | 10 | 0.411 | 10.44 | 0.032 | 0.81 |
| **35170/15** | 15 | 0.458 | 11.63 | 0.032 | 0.81 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35172** | 2 | 0.277 | 7.04 | 0.032 | 0.81 |
| **35172/1*** | 2 | 0.277 | 7.04 | 0.032 | 0.81 |
| **35173** | 3 | 0.291 | 7.39 | 0.032 | 0.81 |
| **35173/1*** | 3 | 0.291 | 7.39 | 0.032 | 0.81 |
| **35174** | 4 | 0.315 | 8.00 | 0.032 | 0.81 |
| **35176** | 6 | 0.369 | 9.37 | 0.032 | 0.81 |
| **35178** | 8 | 0.398 | 10.11 | 0.032 | 0.81 |
| **35180** | 10 | 0.459 | 11.66 | 0.032 | 0.81 |
| **35180/15** | 15 | 0.513 | 13.03 | 0.032 | 0.81 |

*Conductors color-coded per international standards: brown, blue, green/yellow.



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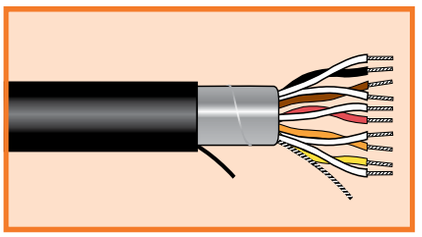
# Xtra-Guard® 3

## Direct Burial
## 300 V Foil Shield, Multipair



### Operating Temperature

- –30°C to +80°C

### Conductor Color Coding

- 24, 22 AWG: Chart B (page 528)
- 20, 18 AWG: Chart A (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-700: Bonding, thermoplastic adhesive lined, cross-linked polyolefin

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35491** | 1 | 0.159 | 4.04 | 0.032 | 0.81 |
| **35492** | 2 | 0.215 | 5.46 | 0.032 | 0.81 |
| **35493** | 3 | 0.227 | 5.77 | 0.032 | 0.81 |
| **35494** | 4 | 0.246 | 6.25 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35481** | 1 | 0.171 | 4.34 | 0.032 | 0.81 |
| **35482** | 2 | 0.235 | 5.97 | 0.032 | 0.81 |
| **35483** | 3 | 0.248 | 6.30 | 0.032 | 0.81 |
| **35484** | 4 | 0.269 | 6.83 | 0.032 | 0.81 |
| **35485** | 5 | 0.293 | 7.44 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35452** | 2 | 0.301 | 7.65 | 0.032 | 0.81 |
| **35453** | 3 | 0.319 | 8.10 | 0.032 | 0.81 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35372** | 2 | 0.330 | 8.38 | 0.032 | 0.81 |
| **35373** | 3 | 0.350 | 8.89 | 0.032 | 0.81 |
| **35376** | 6 | 0.462 | 11.73 | 0.032 | 0.81 |

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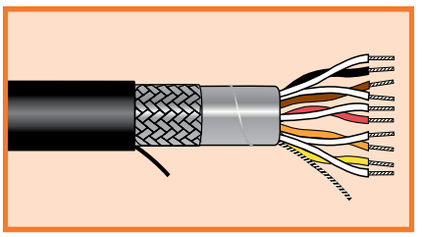
# Xtra-Guard® 3

## Direct Burial
## 300 V Supra-Shield® Foil/Braid, Multipair



### Operating Temperature

- –30°C to +80°C

### Conductor Color Coding

- Chart B (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- Premium PVC insulation
- Specially formulated polyethylene jacket
- UV resistant
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-700: Bonding, thermoplastic adhesive lined, cross-linked polyolefin

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35272** | 2 | 0.239 | 6.07 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **35121** | 1 | 0.195 | 4.95 | 0.032 | 0.081 |
| **35122** | 2 | 0.259 | 6.58 | 0.032 | 0.081 |
| **35123** | 3 | 0.272 | 6.91 | 0.032 | 0.081 |
| **35124** | 4 | 0.293 | 7.44 | 0.032 | 0.081 |
| **35125** | 5 | 0.317 | 8.05 | 0.032 | 0.081 |
| **35126** | 6 | 0.342 | 8.69 | 0.032 | 0.081 |
| **35129** | 9 | 0.393 | 9.98 | 0.032 | 0.081 |

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# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance

### Features

- The preferred outdoor cable for advanced temperature and chemical performance
- Temperature range from -50°C to +125°C
- High-performance TPE insulation and jacket offering 3 times the low-temperature flexibility of conventional PVC
- Solvent and water resistant
- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- 300 V and 600 V
- Unshielded, foil shielded, or Supra-Shield® foil/braid
- Outstanding ultraviolet light stability in all jacket colors
- Nylon ripcord for easy jacket stripping
- Approved by the US Mine Safety and Health Administration and The Pennsylvania Department of Environmental Protection
- Suitable for use in Class 1, Division 2 Locations under the applicable sections of the National Electric Code
- UL Types TC, PLTC, and WTTC
- CSA AWM I A/B II A/B FT1
- Passes UL 1685 Vertical Tray Flame Test

### Applications

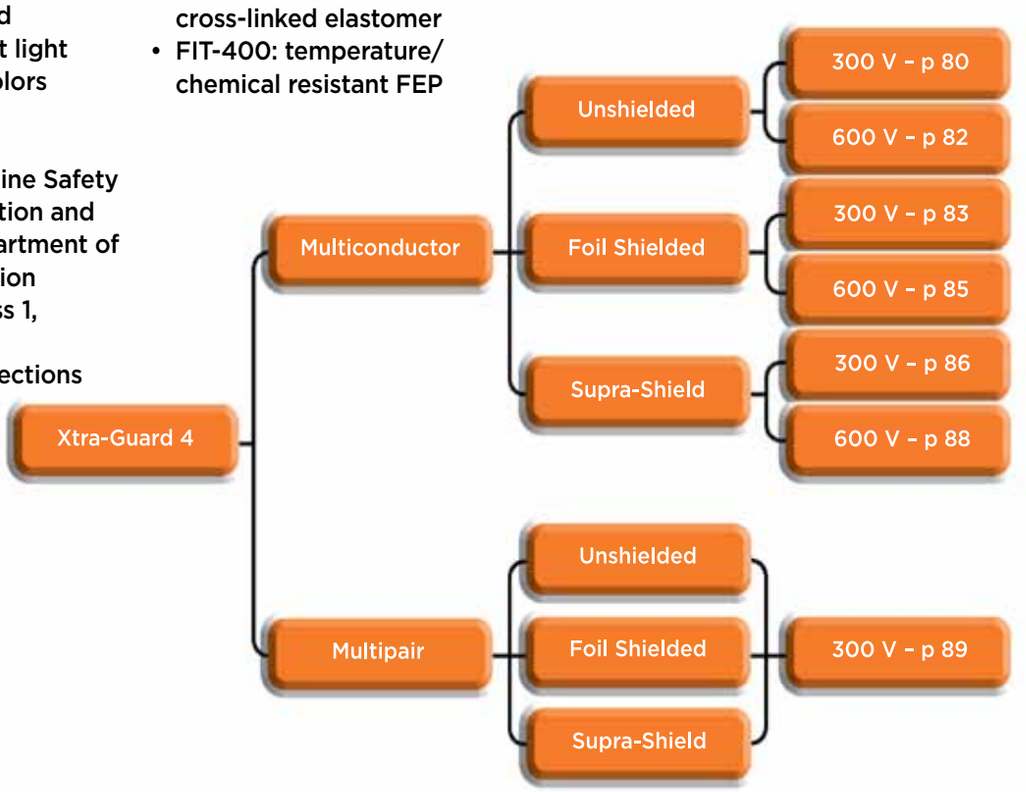
- Wood, paper, pulp, plant operations
- Mining instruments and controls
- Mass transit systems
- Military electronic applications
- Food and beverage plants
- Petrochemical process controls
- Arctic pipeline controls

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/ chemical resistant FEP

| | | |
|---|---|---|
| SLATE | BEIGE | WHITE |
| RED | BLACK | BLUE |
| GREEN | YELLOW | ORANGE |

Xtra-Guard cables are available in a range of long-lasting colors for fast, easy identification, for safety reasons, and for matching the color of your system.

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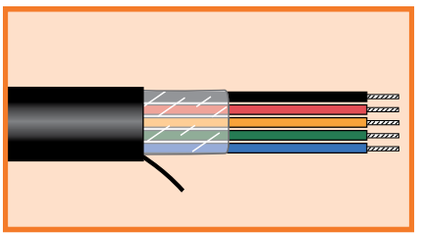
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Unshielded, Multiconductor



**UL AWM 20237**
**UL PLTC***
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2 (22 & 20 AWG)**

### Operating Temperature

- –50°C to +125°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**24 AWG (0.23 mm²)***

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45012** | 2 | 0.200 | 5.08 | 0.042 | 1.07 |
| **45013** | 3 | 0.209 | 5.31 | 0.042 | 1.07 |
| **45014** | 4 | 0.224 | 5.69 | 0.042 | 1.07 |
| **45016** | 6 | 0.257 | 6.53 | 0.042 | 1.07 |
| **45018** | 8 | 0.275 | 6.99 | 0.042 | 1.07 |
| **45020** | 10 | 0.312 | 7.92 | 0.042 | 1.07 |
| **45020/15** | 15 | 0.347 | 8.81 | 0.042 | 1.07 |
| **45020/20** | 20 | 0.383 | 9.73 | 0.042 | 1.07 |
| **45020/25** | 25 | 0.424 | 10.77 | 0.042 | 1.07 |

* UL AWM 20237, CSA AWM I/II A/B FT1 only

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45002** | 2 | 0.218 | 5.54 | 0.045 | 1.14 |
| **45003** | 3 | 0.228 | 5.79 | 0.045 | 1.14 |
| **45004** | 4 | 0.244 | 6.20 | 0.045 | 1.14 |
| **45006** | 6 | 0.281 | 7.14 | 0.045 | 1.14 |
| **45008** | 8 | 0.301 | 7.65 | 0.045 | 1.14 |
| **45010** | 10 | 0.342 | 8.69 | 0.045 | 1.14 |
| **45010/15** | 15 | 0.380 | 9.65 | 0.045 | 1.14 |
| **45010/20** | 20 | 0.441 | 11.20 | 0.055 | 1.40 |
| **45010/25** | 25 | 0.486 | 12.34 | 0.055 | 1.40 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45052** | 2 | 0.234 | 5.94 | 0.045 | 1.14 |
| **45053** | 3 | 0.245 | 6.22 | 0.045 | 1.14 |
| **45054** | 4 | 0.264 | 6.71 | 0.045 | 1.14 |
| **45056** | 6 | 0.306 | 7.77 | 0.045 | 1.14 |
| **45058** | 8 | 0.328 | 8.33 | 0.045 | 1.14 |
| **45060** | 10 | 0.374 | 9.50 | 0.045 | 1.14 |
| **45060/15** | 15 | 0.437 | 11.10 | 0.055 | 1.40 |
| **45060/20** | 20 | 0.483 | 12.27 | 0.055 | 1.40 |
| **45060/25** | 25 | 0.534 | 13.56 | 0.055 | 1.40 |



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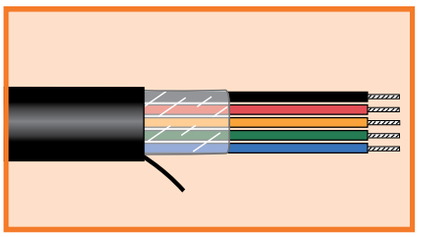
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Unshielded, Multiconductor



**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2**

### Operating Temperature

- -50°C to +125°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45062** | 2 | 0.252 | 6.40 | 0.045 | 1.14 |
| **45062/1*** | 2 | 0.252 | 6.40 | 0.045 | 1.14 |
| **45063** | 3 | 0.264 | 6.71 | 0.045 | 1.14 |
| **45063/1*** | 3 | 0.264 | 6.71 | 0.045 | 1.14 |
| **45064** | 4 | 0.285 | 7.24 | 0.045 | 1.14 |
| **45066** | 6 | 0.333 | 8.46 | 0.045 | 1.14 |
| **45068** | 8 | 0.358 | 9.09 | 0.045 | 1.14 |
| **45070** | 10 | 0.430 | 10.92 | 0.055 | 1.40 |
| **45070/15** | 15 | 0.479 | 12.17 | 0.055 | 1.40 |
| **45070/20** | 20 | 0.530 | 13.46 | 0.055 | 1.40 |
| **45070/25** | 25 | 0.588 | 14.94 | 0.055 | 1.40 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45072** | 2 | 0.276 | 7.01 | 0.045 | 1.14 |
| **45072/1*** | 2 | 0.276 | 7.01 | 0.045 | 1.14 |
| **45073** | 3 | 0.290 | 7.37 | 0.045 | 1.14 |
| **45073/1*** | 3 | 0.290 | 7.37 | 0.045 | 1.14 |
| **45074** | 4 | 0.314 | 7.98 | 0.045 | 1.14 |
| **45076** | 6 | 0.369 | 9.37 | 0.045 | 1.14 |
| **45078** | 8 | 0.418 | 10.62 | 0.055 | 1.40 |
| **45080** | 10 | 0.478 | 12.14 | 0.055 | 1.40 |
| **45080/15** | 15 | 0.534 | 13.56 | 0.055 | 1.40 |
| **45080/20** | 20 | 0.593 | 15.06 | 0.055 | 1.40 |
| **45080/25** | 25 | 0.680 | 17.27 | 0.055 | 1.40 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

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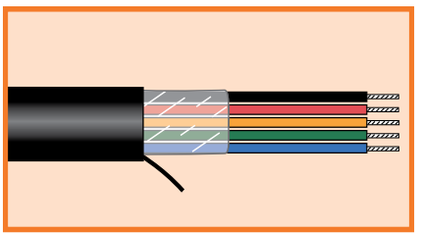
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 600 V Unshielded, Multiconductor



**UL AWM 20238**
**UL TC, WTTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2**

### Operating Temperature

- -50°C to +125°C

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45422** | 2 | 0.336 | 8.53 | 0.055 | 1.40 |
| **45423** | 3 | 0.353 | 8.97 | 0.055 | 1.40 |
| **45424** | 4 | 0.383 | 9.73 | 0.055 | 1.40 |
| **45425** | 5 | 0.416 | 10.57 | 0.055 | 1.40 |
| **45427** | 7 | 0.450 | 11.43 | 0.055 | 1.40 |
| **45429** | 9 | 0.519 | 13.18 | 0.055 | 1.40 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45432** | 2 | 0.360 | 9.14 | 0.055 | 1.40 |
| **45433** | 3 | 0.379 | 9.63 | 0.055 | 1.40 |
| **45434** | 4 | 0.412 | 10.46 | 0.055 | 1.40 |
| **45435** | 5 | 0.448 | 11.38 | 0.055 | 1.40 |
| **45437** | 7 | 0.486 | 12.34 | 0.055 | 1.40 |
| **45439** | 9 | 0.583 | 14.81 | 0.065 | 1.65 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45442** | 2 | 0.390 | 9.91 | 0.055 | 1.40 |
| **45443** | 3 | 0.412 | 10.46 | 0.055 | 1.40 |
| **45444** | 4 | 0.448 | 11.38 | 0.055 | 1.40 |
| **45445** | 5 | 0.489 | 12.42 | 0.055 | 1.40 |
| **45447** | 7 | 0.551 | 14.00 | 0.065 | 1.65 |



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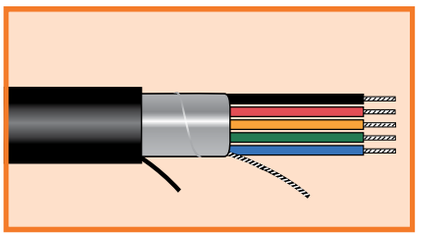
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Foil Shielded, Multiconductor



**UL AWM 20237**
**UL PLTC***
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2 (22 & 20 AWG)**

### Operating Temperature

- -50°C to +125°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45092** | 2 | 0.204 | 5.18 | 0.042 | 1.07 |
| **45093** | 3 | 0.213 | 5.41 | 0.042 | 1.07 |
| **45094** | 4 | 0.228 | 5.79 | 0.042 | 1.07 |
| **45096** | 6 | 0.261 | 6.63 | 0.042 | 1.07 |
| **45098** | 8 | 0.279 | 7.09 | 0.042 | 1.07 |
| **45100** | 10 | 0.316 | 8.03 | 0.042 | 1.07 |
| **45100/15** | 15 | 0.351 | 8.92 | 0.042 | 1.07 |
| **45100/20** | 20 | 0.387 | 9.83 | 0.042 | 1.07 |
| **45100/25** | 25 | 0.428 | 10.87 | 0.042 | 1.07 |

* UL AWM 20237, CSA AWM I/II A/B FT1 only

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45192** | 2 | 0.222 | 5.64 | 0.045 | 1.14 |
| **45193** | 3 | 0.232 | 5.89 | 0.045 | 1.14 |
| **45194** | 4 | 0.248 | 6.30 | 0.045 | 1.14 |
| **45196** | 6 | 0.285 | 7.24 | 0.045 | 1.14 |
| **45198** | 8 | 0.305 | 7.75 | 0.045 | 1.14 |
| **45199/10** | 10 | 0.346 | 8.79 | 0.045 | 1.14 |
| **45199/15** | 15 | 0.404 | 10.26 | 0.055 | 1.40 |
| **45199/20** | 20 | 0.445 | 11.30 | 0.055 | 1.40 |
| **45199/25** | 25 | 0.490 | 12.45 | 0.055 | 1.40 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45462** | 2 | 0.238 | 6.05 | 0.045 | 1.14 |
| **45463** | 3 | 0.249 | 6.32 | 0.045 | 1.14 |
| **45464** | 4 | 0.268 | 6.81 | 0.045 | 1.14 |
| **45466** | 6 | 0.310 | 7.87 | 0.045 | 1.14 |
| **45468** | 8 | 0.332 | 8.43 | 0.045 | 1.14 |
| **45470** | 10 | 0.378 | 9.60 | 0.045 | 1.14 |
| **45470/15** | 15 | 0.441 | 11.20 | 0.055 | 1.40 |
| **45470/20** | 20 | 0.487 | 12.37 | 0.055 | 1.40 |
| **45470/25** | 25 | 0.538 | 13.67 | 0.055 | 1.40 |
| **45470/40** | 40 | 0.650 | 16.51 | 0.065 | 1.65 |

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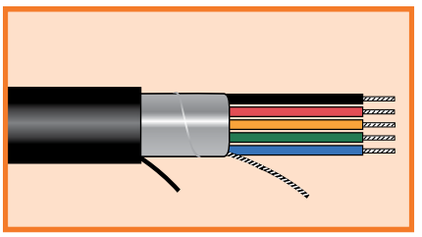
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Foil Shielded, Multiconductor



**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2**

### Operating Temperature

- -50°C to +125°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45382** | 2 | 0.256 | 6.50 | 0.045 | 1.14 |
| **45382/1*** | 2 | 0.256 | 6.50 | 0.045 | 1.14 |
| **45383** | 3 | 0.268 | 6.81 | 0.045 | 1.14 |
| **45383/1*** | 3 | 0.268 | 6.81 | 0.045 | 1.14 |
| **45384** | 4 | 0.289 | 7.34 | 0.045 | 1.14 |
| **45386** | 6 | 0.337 | 8.56 | 0.045 | 1.14 |
| **45388** | 8 | 0.362 | 9.19 | 0.045 | 1.14 |
| **45390** | 10 | 0.434 | 11.02 | 0.055 | 1.40 |
| **45390/15** | 15 | 0.483 | 12.27 | 0.055 | 1.40 |
| **45390/20** | 20 | 0.534 | 13.56 | 0.055 | 1.40 |
| **45390/25** | 25 | 0.592 | 15.04 | 0.055 | 1.40 |
| **45390/30** | 30 | 0.645 | 16.38 | 0.065 | 1.65 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45362** | 2 | 0.280 | 7.11 | 0.045 | 1.14 |
| **45362/1*** | 2 | 0.280 | 7.11 | 0.045 | 1.14 |
| **45363** | 3 | 0.294 | 7.47 | 0.045 | 1.14 |
| **45363/1*** | 3 | 0.294 | 7.47 | 0.045 | 1.14 |
| **45364** | 4 | 0.318 | 8.08 | 0.045 | 1.14 |
| **45366** | 6 | 0.373 | 9.47 | 0.045 | 1.14 |
| **45368** | 8 | 0.422 | 10.72 | 0.045 | 1.14 |
| **45370** | 10 | 0.482 | 12.24 | 0.055 | 1.40 |
| **45370/15** | 15 | 0.538 | 13.67 | 0.055 | 1.40 |
| **45370/20** | 20 | 0.597 | 15.16 | 0.055 | 1.40 |
| **45370/25** | 25 | 0.684 | 17.37 | 0.065 | 1.65 |

*Conductors color-coded per international standards: brown, blue, green/yellow.



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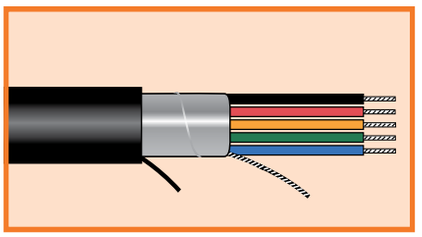
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 600 V Foil Shielded, Multiconductor



**UL AWM 20238**
**UL TC, WTTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2**

### Operating Temperature

- -50°C to +125°C

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45430/2** | 2 | 0.340 | 8.64 | 0.055 | 1.40 |
| **45430/3** | 3 | 0.357 | 9.07 | 0.055 | 1.40 |
| **45430/4** | 4 | 0.387 | 9.83 | 0.055 | 1.40 |
| **45430/5** | 5 | 0.420 | 10.67 | 0.055 | 1.40 |
| **45430/7** | 7 | 0.454 | 11.53 | 0.055 | 1.40 |
| **45430/9** | 9 | 0.543 | 13.79 | 0.055 | 1.40 |
| **45430/12** | 12 | 0.599 | 15.21 | 0.065 | 1.65 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45440/2** | 2 | 0.364 | 9.25 | 0.055 | 1.40 |
| **45440/3** | 3 | 0.383 | 9.73 | 0.055 | 1.40 |
| **45440/5** | 5 | 0.452 | 11.48 | 0.055 | 1.40 |
| **45440/7** | 7 | 0.490 | 12.45 | 0.055 | 1.40 |
| **45440/9** | 9 | 0.587 | 14.91 | 0.065 | 1.65 |
| **45440/12** | 12 | 0.649 | 16.48 | 0.065 | 1.65 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45450/2** | 2 | 0.394 | 10.01 | 0.055 | 1.40 |
| **45450/3** | 3 | 0.416 | 10.57 | 0.055 | 1.40 |
| **45450/5** | 5 | 0.493 | 12.52 | 0.055 | 1.40 |
| **45450/7** | 7 | 0.555 | 14.10 | 0.065 | 1.65 |
| **45450/15** | 15 | 0.775 | 19.69 | 0.065 | 1.65 |

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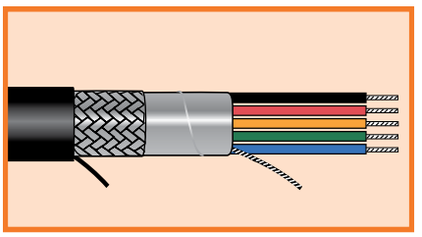
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2 (22 & 20 AWG)**

### Operating Temperature

- -50°C to +125°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45112** | 2 | 0.228 | 5.79 | 0.042 | 1.07 |
| **45113** | 3 | 0.237 | 6.02 | 0.042 | 1.07 |
| **45114** | 4 | 0.252 | 6.40 | 0.042 | 1.07 |
| **45116** | 6 | 0.285 | 7.24 | 0.042 | 1.07 |
| **45118** | 8 | 0.303 | 7.70 | 0.042 | 1.07 |
| **45120** | 10 | 0.340 | 8.64 | 0.042 | 1.07 |
| **45120/15** | 15 | 0.375 | 9.53 | 0.042 | 1.07 |
| **45120/20** | 20 | 0.411 | 10.44 | 0.042 | 1.07 |
| **45120/25** | 25 | 0.452 | 11.48 | 0.042 | 1.07 |

* UL AWM 20237, CSA AWM I/II A/B FT1 only

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45102** | 2 | 0.246 | 6.25 | 0.045 | 1.14 |
| **45103** | 3 | 0.256 | 6.50 | 0.045 | 1.14 |
| **45104** | 4 | 0.272 | 6.91 | 0.045 | 1.14 |
| **45106** | 6 | 0.309 | 7.85 | 0.045 | 1.14 |
| **45108** | 8 | 0.329 | 8.36 | 0.045 | 1.14 |
| **45110** | 10 | 0.370 | 9.40 | 0.045 | 1.14 |
| **45110/15** | 15 | 0.428 | 10.87 | 0.055 | 1.40 |
| **45110/20** | 20 | 0.469 | 11.91 | 0.055 | 1.40 |
| **45110/25** | 25 | 0.514 | 13.06 | 0.055 | 1.40 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45152** | 2 | 0.262 | 6.65 | 0.045 | 1.14 |
| **45153** | 3 | 0.273 | 6.93 | 0.045 | 1.14 |
| **45154** | 4 | 0.292 | 7.42 | 0.045 | 1.14 |
| **45156** | 6 | 0.334 | 8.48 | 0.045 | 1.14 |
| **45158** | 8 | .0356 | 9.04 | 0.045 | 1.14 |
| **45160** | 10 | 0.422 | 10.72 | 0.055 | 1.40 |
| **45160/15** | 15 | 0.465 | 11.81 | 0.055 | 1.40 |
| **45160/20** | 20 | 0.511 | 12.98 | 0.055 | 1.40 |
| **45160/25** | 25 | 0.562 | 14.27 | 0.055 | 1.40 |



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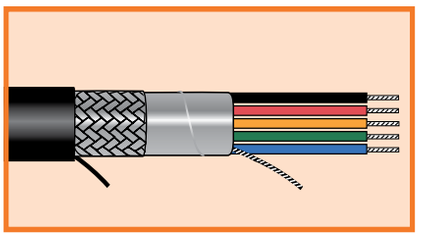
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2**

### Operating Temperature

- –50°C to +125°C

### Conductor Color Coding

- 24, 22 AWG: Chart E (page 532)
- 20, 18, 16 AWG: Chart D (page 531)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45162** | 2 | 0.280 | 7.11 | 0.045 | 1.14 |
| **45162/1*** | 2 | 0.280 | 7.11 | 0.045 | 1.14 |
| **45163** | 3 | 0.292 | 7.42 | 0.045 | 1.14 |
| **45163/1*** | 3 | 0.292 | 7.42 | 0.045 | 1.14 |
| **45164** | 4 | 0.313 | 7.95 | 0.045 | 1.14 |
| **45166** | 6 | 0.361 | 9.17 | 0.045 | 1.14 |
| **45168** | 8 | 0.406 | 10.31 | 0.045 | 1.14 |
| **45170** | 10 | 0.458 | 11.63 | 0.055 | 1.40 |
| **45170/15** | 15 | 0.507 | 12.88 | 0.055 | 1.40 |
| **45170/20** | 20 | 0.558 | 14.17 | 0.055 | 1.40 |
| **45170/25** | 25 | 0.636 | 16.15 | 0.065 | 1.65 |
| **45170/30** | 30 | 0.675 | 17.15 | 0.065 | 1.65 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45172** | 2 | 0.304 | 7.72 | 0.045 | 1.14 |
| **45172/1*** | 2 | 0.304 | 7.72 | 0.045 | 1.14 |
| **45173** | 3 | 0.318 | 8.08 | 0.045 | 1.14 |
| **45173/1*** | 3 | 0.318 | 8.08 | 0.045 | 1.14 |
| **45174** | 4 | 0.342 | 8.69 | 0.045 | 1.14 |
| **45176** | 6 | 0.417 | 10.59 | 0.055 | 1.40 |
| **45178** | 8 | 0.446 | 11.33 | 0.055 | 1.40 |
| **45180** | 10 | 0.506 | 12.85 | 0.055 | 1.40 |
| **45180/15** | 15 | 0.562 | 14.27 | 0.055 | 1.40 |
| **45180/20** | 20 | 0.641 | 16.28 | 0.065 | 1.65 |
| **45180/25** | 25 | 0.714 | 18.14 | 0.065 | 1.65 |

*Conductors color-coded per international standards: brown, blue, green/yellow.

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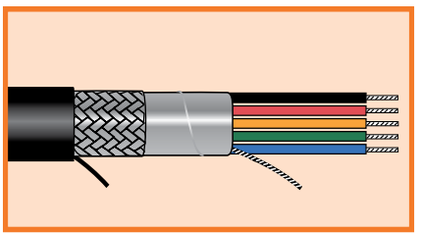
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 600 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 20238**
**UL TC, WTTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2**

### Operating Temperature

- -50°C to +125°C

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45522** | 2 | 0.364 | 9.25 | 0.055 | 1.40 |
| **45523** | 3 | 0.381 | 9.68 | 0.055 | 1.40 |
| **45524** | 4 | 0.411 | 10.44 | 0.055 | 1.40 |
| **45525** | 5 | 0.444 | 11.28 | 0.055 | 1.40 |
| **45527** | 7 | 0.478 | 12.14 | 0.055 | 1.40 |
| **45529** | 9 | 0.567 | 14.40 | 0.065 | 1.65 |
| **45529/12** | 12 | 0.623 | 15.82 | 0.065 | 1.65 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45532** | 2 | 0.388 | 9.86 | 0.055 | 1.40 |
| **45533** | 3 | 0.407 | 10.34 | 0.055 | 1.40 |
| **45534** | 4 | 0.440 | 11.18 | 0.055 | 1.40 |
| **45535** | 5 | 0.476 | 12.09 | 0.055 | 1.40 |
| **45537** | 7 | 0.514 | 13.06 | 0.055 | 1.40 |
| **45539** | 9 | 0.611 | 15.52 | 0.065 | 1.65 |
| **45539/12** | 12 | 0.679 | 17.25 | 0.065 | 1.65 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45542** | 2 | 0.418 | 10.62 | 0.055 | 1.40 |
| **45543** | 3 | 0.440 | 11.18 | 0.055 | 1.40 |
| **45544** | 4 | 0.476 | 12.09 | 0.055 | 1.40 |
| **45545** | 5 | 0.517 | 13.13 | 0.055 | 1.40 |
| **45547** | 7 | 0.579 | 14.71 | 0.065 | 1.65 |
| **45549** | 9 | 0.672 | 17.07 | 0.065 | 1.65 |



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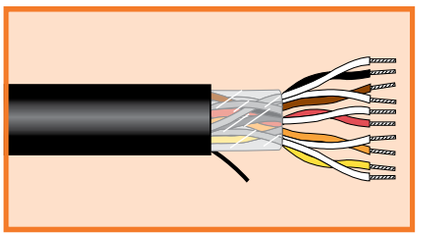
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Unshielded, Multipair



**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45031** | 1 | 0.252 | 6.40 | 0.045 | 1.14 |
| **45032** | 2 | 0.353 | 8.97 | 0.045 | 1.14 |

**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2**

### Operating Temperature

- -50°C to +125°C

### Conductor Color Coding

- Chart B (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Nylon ripcord

### Availability

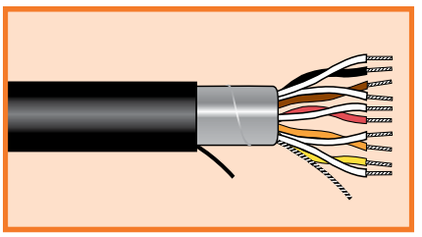
Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Foil Shield, Multipair



**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2 (22 AWG)**

### Operating Temperature

- –50°C to +125°C

### Conductor Color Coding

- Chart B (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45491** | 1 | 0.204 | 5.18 | 0.042 | 1.07 |
| **45492** | 2 | 0.276 | 7.01 | 0.042 | 1.07 |
| **45493** | 3 | 0.290 | 7.37 | 0.042 | 1.07 |
| **45494** | 4 | 0.314 | 7.98 | 0.042 | 1.07 |
| **45495** | 5 | 0.341 | 8.66 | 0.042 | 1.07 |
| **45496** | 6 | 0.370 | 9.40 | 0.042 | 1.07 |
| **45499** | 9 | 0.428 | 10.87 | 0.042 | 1.07 |
| **45499/11** | 11 | 0.459 | 11.66 | 0.042 | 1.07 |
| **45499/15** | 15 | 0.516 | 13.11 | 0.042 | 1.07 |
| **45499/27** | 27 | 0.679 | 17.25 | 0.053 | 1.35 |

* UL AWM 20237, CSA AWM I/II A/B FT1 only

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45481** | 1 | 0.222 | 5.64 | 0.045 | 1.14 |
| **45482** | 2 | 0.301 | 7.65 | 0.045 | 1.14 |
| **45483** | 3 | 0.317 | 8.05 | 0.045 | 1.14 |
| **45484** | 4 | 0.344 | 8.74 | 0.045 | 1.14 |
| **45485** | 5 | 0.374 | 9.50 | 0.045 | 1.14 |
| **45486** | 6 | 0.425 | 10.80 | 0.055 | 1.40 |
| **45489** | 9 | 0.489 | 12.42 | 0.055 | 1.40 |
| **45489/11** | 11 | 0.525 | 13.34 | 0.055 | 1.40 |
| **45489/15** | 15 | 0.588 | 14.94 | 0.055 | 1.40 |



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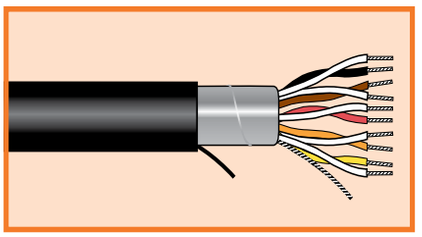
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Foil Shield, Multipair



**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2 (22 AWG)**

### Operating Temperature

- –50°C to +125°C

### Conductor Color Coding

- Chart B (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45451** | 1 | 0.238 | 6.05 | 0.045 | 1.14 |
| **45452** | 2 | 0.328 | 8.33 | 0.045 | 1.14 |
| **45453** | 3 | 0.346 | 8.79 | 0.045 | 1.14 |
| **45454** | 4 | 0.376 | 9.55 | 0.045 | 1.14 |
| **45455** | 5 | 0.430 | 10.92 | 0.055 | 1.40 |
| **45456** | 6 | 0.465 | 11.81 | 0.055 | 1.40 |
| **45459** | 9 | 0.537 | 13.64 | 0.055 | 1.40 |
| **45459/11** | 11 | 0.577 | 14.66 | 0.055 | 1.40 |
| **45459/15** | 15 | 0.668 | 16.97 | 0.065 | 1.65 |
| **45459/19** | 19 | 0.713 | 18.11 | 0.065 | 1.65 |
| **45459/27** | 27 | 0.885 | 22.48 | 0.065 | 1.65 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45371** | 1 | 0.256 | 6.50 | 0.045 | 1.14 |
| **45372** | 2 | 0.357 | 9.07 | 0.045 | 1.14 |
| **45373** | 3 | 0.378 | 9.60 | 0.045 | 1.14 |
| **45374** | 4 | 0.432 | 10.97 | 0.055 | 1.40 |
| **45375** | 5 | 0.470 | 11.94 | 0.055 | 1.40 |
| **45376** | 6 | 0.510 | 12.95 | 0.055 | 1.40 |
| **45379** | 9 | 0.591 | 15.01 | 0.055 | 1.40 |
| **45379/11** | 11 | 0.656 | 16.66 | 0.065 | 1.65 |
| **45379/15** | 15 | 0.736 | 18.69 | 0.065 | 1.65 |
| **45379/19** | 19 | 0.787 | 19.99 | 0.065 | 1.65 |

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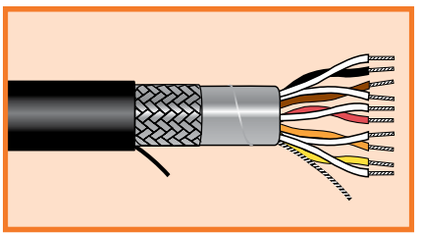
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Supra-Shield® Foil/Braid, Multipair



**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2 (22 AWG)**

### Operating Temperature

- –50°C to +125°C

### Conductor Color Coding

- Chart B (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45271** | 1 | 0.228 | 5.79 | 0.042 | 1.07 |
| **45272** | 2 | 0.300 | 7.62 | 0.042 | 1.07 |
| **45273** | 3 | 0.314 | 7.98 | 0.042 | 1.07 |
| **45274** | 4 | 0.338 | 8.59 | 0.042 | 1.07 |
| **45275** | 5 | 0.365 | 9.27 | 0.042 | 1.07 |
| **45276** | 6 | 0.394 | 10.01 | 0.042 | 1.07 |
| **45279** | 9 | 0.452 | 11.48 | 0.042 | 1.07 |
| **45279/11** | 11 | 0.483 | 12.27 | 0.042 | 1.07 |
| **45279/15** | 15 | 0.540 | 13.72 | 0.042 | 1.07 |
| **45279/19** | 19 | 0.598 | 15.19 | 0.053 | 1.35 |

* UL AWM 20237, CSA AWM I/II A/B FT1 only

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45121** | 1 | 0.246 | 6.25 | 0.045 | 1.14 |
| **45122** | 2 | 0.325 | 8.26 | 0.045 | 1.14 |
| **45123** | 3 | 0.341 | 8.66 | 0.045 | 1.14 |
| **45124** | 4 | 0.368 | 9.35 | 0.045 | 1.14 |
| **45125** | 5 | 0.418 | 10.62 | 0.055 | 1.40 |
| **45126** | 6 | 0.449 | 11.40 | 0.055 | 1.40 |
| **45129** | 9 | 0.513 | 13.03 | 0.055 | 1.40 |
| **45129/11** | 11 | 0.549 | 13.94 | 0.055 | 1.40 |
| **45129/15** | 15 | 0.632 | 16.05 | 0.065 | 1.65 |
| **45129/19** | 19 | 0.677 | 17.20 | 0.065 | 1.65 |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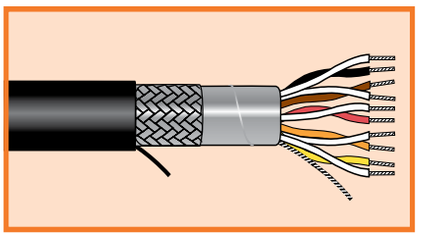
# Xtra-Guard® 4

## Advanced Temperature and Chemical Performance 300 V Supra-Shield® Foil/Braid, Multipair



**UL AWM 20237**
**UL PLTC**
**CSA AWM I/II A/B FT1**
**MSHA P-07-KA070017-MSHA**
**NEC Class 1, Div 2 (22 AWG)**

### Operating Temperature

- –50°C to +125°C

### Conductor Color Coding

- Chart B (page 528)
- Nine jacket colors (black standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- TPE insulation
- TPE jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Nylon ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-600: highly flexible, cross-linked elastomer
- FIT-400: temperature/chemical resistant FEP

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45291** | 1 | 0.262 | 6.65 | 0.045 | 1.14 |
| **45292** | 2 | 0.352 | 8.94 | 0.045 | 1.14 |
| **45293** | 3 | 0.370 | 9.40 | 0.045 | 1.14 |
| **45294** | 4 | 0.420 | 10.67 | 0.055 | 1.40 |
| **45295** | 5 | 0.454 | 11.53 | 0.055 | 1.40 |
| **45296** | 6 | 0.489 | 12.42 | 0.055 | 1.40 |
| **45299** | 9 | 0.561 | 14.25 | 0.055 | 1.40 |
| **45299/11** | 11 | 0.621 | 15.77 | 0.065 | 1.65 |
| **45299/15** | 15 | 0.698 | 17.73 | 0.065 | 1.65 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **45131** | 1 | 0.280 | 7.11 | 0.045 | 1.14 |
| **45132** | 2 | 0.381 | 9.68 | 0.045 | 1.14 |
| **45133** | 3 | 0.422 | 10.72 | 0.055 | 1.40 |
| **45134** | 4 | 0.456 | 11.58 | 0.055 | 1.40 |
| **45135** | 5 | 0.494 | 12.55 | 0.055 | 1.40 |
| **45136** | 6 | 0.534 | 13.56 | 0.055 | 1.40 |
| **45139** | 9 | 0.635 | 16.13 | 0.065 | 1.65 |
| **45139/11** | 11 | 0.686 | 17.42 | 0.065 | 1.65 |
| **45139/15** | 15 | 0.766 | 19.46 | 0.065 | 1.65 |

# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance

### Features

- The preferred cable for unsurpassed maximum temperature and chemical performance
- Temperature range from -80°C to +200°C
- UL, CSA listed
- 100% impervious to all chemicals, solvents, acids, fuels, and water
- Suitable for Class 1 cleanrooms
- FDA food/medical grade (sterilizable)
- Low-friction FEP jacket for easy routing
- Fast, easy stripping of insulation and jacket
- Color-coded, tinned copper conductors
- 300 V
- Unshielded, foil shielded, or Supra-Shield® foil/braid
- Outstanding ultraviolet light stability in all jacket colors
- Aramid fiber ripcord for easy jacket stripping
- Excellent flame resistance and low smoke generation: Passes NFPA 262-2007

### Applications

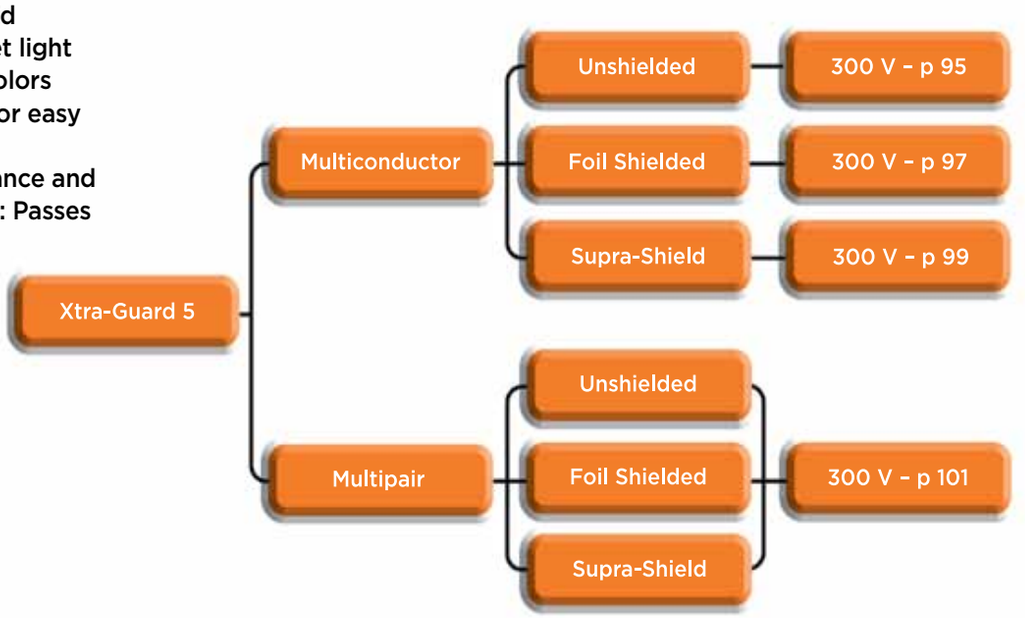
- Food and beverage wash-down
- Cleanroom environments
- Food/medical-grade applications
- Turbine generators
- Chemical processing
- Military electronics
- Mining instrumentation

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

| | | |
|---|---|---|
| TAN | BEIGE | WHITE |
| RED | BLACK | BLUE |
| GREEN | YELLOW | ORANGE |

Xtra-Guard 5 cables are available in a range of long-lasting tints for fast, easy identification, for safety reasons, and for matching the color of your system.



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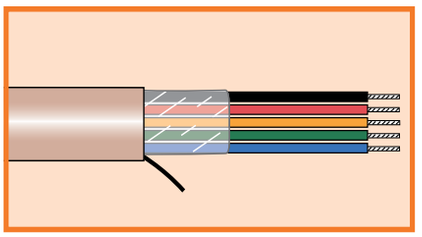
# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance
## 300 V Unshielded, Multiconductor



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- –80°C to +200°C
- –80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55012** | 2 | 0.148 | 3.76 | 0.027 | 0.69 |
| **55013** | 3 | 0.155 | 3.94 | 0.027 | 0.69 |
| **55014** | 4 | 0.166 | 4.22 | 0.027 | 0.69 |
| **55016** | 6 | 0.193 | 4.90 | 0.027 | 0.69 |
| **55019** | 9 | 0.220 | 5.59 | 0.027 | 0.69 |
| **55020/12** | 12 | 0.243 | 6.17 | 0.027 | 0.69 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55002** | 2 | 0.160 | 4.06 | 0.027 | 0.69 |
| **55003** | 3 | 0.168 | 4.27 | 0.027 | 0.69 |
| **55004** | 4 | 0.181 | 4.60 | 0.027 | 0.69 |
| **55006** | 6 | 0.211 | 5.36 | 0.027 | 0.69 |
| **55009** | 9 | 0.242 | 6.15 | 0.027 | 0.69 |
| **55010/12** | 12 | 0.268 | 6.81 | 0.027 | 0.69 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55052** | 2 | 0.176 | 4.47 | 0.027 | 0.69 |
| **55053** | 3 | 0.185 | 4.70 | 0.027 | 0.69 |
| **55054** | 4 | 0.200 | 5.08 | 0.027 | 0.69 |
| **55056** | 6 | 0.235 | 5.97 | 0.027 | 0.69 |
| **55059** | 9 | 0.271 | 6.88 | 0.027 | 0.69 |
| **55060/12** | 12 | 0.301 | 7.65 | 0.027 | 0.69 |

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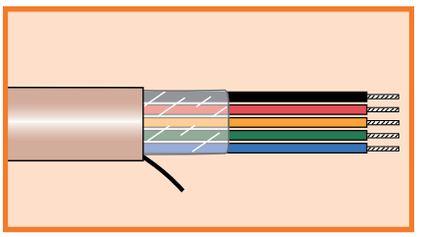
# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance 300 V Unshielded, Multiconductor



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- –80°C to +200°C
- –80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

**18 AWG (0.90 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55062** | 2 | 0.196 | 4.98 | 0.027 | 0.69 |
| **55063** | 3 | 0.207 | 5.26 | 0.027 | 0.69 |
| **55064** | 4 | 0.225 | 5.72 | 0.027 | 0.69 |
| **55066** | 6 | 0.265 | 6.73 | 0.027 | 0.69 |
| **55069** | 9 | 0.307 | 7.80 | 0.027 | 0.69 |
| **55070/12** | 12 | 0.343 | 8.71 | 0.027 | 0.69 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55072** | 2 | 0.218 | 5.54 | 0.027 | 0.69 |
| **55073** | 3 | 0.230 | 5.84 | 0.027 | 0.69 |
| **55074** | 4 | 0.251 | 6.38 | 0.027 | 0.69 |
| **55076** | 6 | 0.298 | 7.57 | 0.027 | 0.69 |
| **55079** | 9 | 0.347 | 8.81 | 0.027 | 0.69 |
| **55080/12** | 12 | 0.388 | 9.86 | 0.027 | 0.69 |



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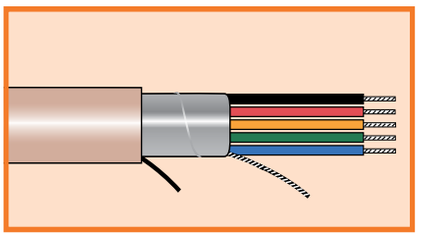
# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance
## 300 V Foil Shielded, Multiconductor



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -80°C to +200°C
- -80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55092** | 2 | 0.154 | 3.91 | 0.027 | 0.69 |
| **55093** | 3 | 0.161 | 4.09 | 0.027 | 0.69 |
| **55094** | 4 | 0.172 | 4.37 | 0.027 | 0.69 |
| **55096** | 6 | 0.199 | 5.05 | 0.027 | 0.69 |
| **55099** | 9 | 0.226 | 5.74 | 0.027 | 0.69 |
| **55100/12** | 12 | 0.249 | 6.32 | 0.027 | 0.69 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55192** | 2 | 0.166 | 4.22 | 0.027 | 0.69 |
| **55193** | 3 | 0.174 | 4.42 | 0.027 | 0.69 |
| **55194** | 4 | 0.187 | 4.75 | 0.027 | 0.69 |
| **55196** | 6 | 0.217 | 5.51 | 0.027 | 0.69 |
| **55199** | 9 | 0.248 | 6.30 | 0.027 | 0.69 |
| **55199/12** | 12 | 0.274 | 6.96 | 0.027 | 0.69 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55462** | 2 | 0.182 | 4.62 | 0.027 | 0.69 |
| **55463** | 3 | 0.191 | 4.85 | 0.027 | 0.69 |
| **55464** | 4 | 0.206 | 5.23 | 0.027 | 0.69 |
| **55466** | 6 | 0.241 | 6.12 | 0.027 | 0.69 |
| **55469** | 9 | 0.277 | 7.04 | 0.027 | 0.69 |
| **55470/12** | 12 | 0.307 | 7.80 | 0.027 | 0.69 |

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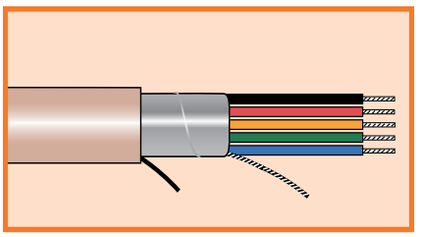
# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance
## 300 V Foil Shielded, Multiconductor



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- –80°C to +200°C
- –80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

**18 AWG (0.90 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55382** | 2 | 0.202 | 5.13 | 0.027 | 0.69 |
| **55383** | 3 | 0.213 | 5.41 | 0.027 | 0.69 |
| **55384** | 4 | 0.231 | 5.87 | 0.027 | 0.69 |
| **55386** | 6 | 0.271 | 6.88 | 0.027 | 0.69 |
| **55389** | 9 | 0.313 | 7.95 | 0.027 | 0.69 |
| **55390/12** | 12 | 0.349 | 8.86 | 0.027 | 0.69 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55362** | 2 | 0.224 | 5.69 | 0.027 | 0.69 |
| **55363** | 3 | 0.236 | 5.99 | 0.027 | 0.69 |
| **55364** | 4 | 0.257 | 6.53 | 0.027 | 0.69 |
| **55366** | 6 | 0.304 | 7.72 | 0.027 | 0.69 |
| **55369** | 9 | 0.353 | 8.97 | 0.027 | 0.69 |
| **55370/12** | 12 | 0.394 | 10.01 | 0.027 | 0.69 |



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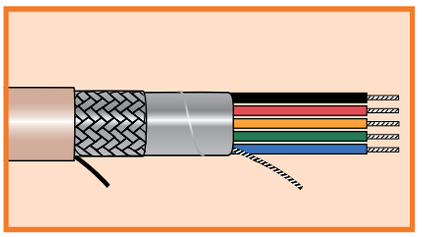
# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- –80°C to +200°C
- –80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55112** | 2 | 0.176 | 4.47 | 0.027 | 0.69 |
| **55113** | 3 | 0.183 | 4.65 | 0.027 | 0.69 |
| **55114** | 4 | 0.194 | 4.93 | 0.027 | 0.69 |
| **55116** | 6 | 0.221 | 5.61 | 0.027 | 0.69 |
| **55119** | 9 | 0.248 | 6.30 | 0.027 | 0.69 |
| **55120/12** | 12 | 0.271 | 6.88 | 0.027 | 0.69 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55102** | 2 | 0.188 | 4.78 | 0.027 | 0.69 |
| **55103** | 3 | 0.196 | 4.98 | 0.027 | 0.69 |
| **55104** | 4 | 0.209 | 5.31 | 0.027 | 0.69 |
| **55106** | 6 | 0.239 | 6.07 | 0.027 | 0.69 |
| **55109** | 9 | 0.270 | 6.86 | 0.027 | 0.69 |
| **55110/12** | 12 | 0.296 | 7.52 | 0.027 | 0.69 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55152** | 2 | 0.204 | 5.18 | 0.027 | 0.69 |
| **55153** | 3 | 0.213 | 5.41 | 0.027 | 0.69 |
| **55154** | 4 | 0.228 | 5.79 | 0.027 | 0.69 |
| **55156** | 6 | 0.263 | 6.68 | 0.027 | 0.69 |
| **55159** | 9 | 0.299 | 7.59 | 0.027 | 0.69 |
| **55160/12** | 12 | 0.329 | 8.36 | 0.027 | 0.69 |

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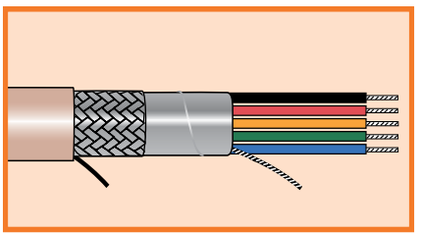
# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance
## 300 V Supra-Shield® Foil/Braid, Multiconductor



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- –80°C to +200°C
- –80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart E (page 532)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

**18 AWG (0.90 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55162** | 2 | 0.224 | 5.69 | 0.027 | 0.69 |
| **55163** | 3 | 0.235 | 5.97 | 0.027 | 0.69 |
| **55164** | 4 | 0.253 | 6.43 | 0.027 | 0.69 |
| **55166** | 6 | 0.293 | 7.44 | 0.027 | 0.69 |
| **55169** | 9 | 0.335 | 8.51 | 0.027 | 0.69 |
| **55170/12** | 12 | 0.371 | 9.42 | 0.027 | 0.69 |

**16 AWG (1.23 mm²)**

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55172** | 2 | 0.246 | 6.25 | 0.027 | 0.69 |
| **55173** | 3 | 0.258 | 6.55 | 0.027 | 0.69 |
| **55174** | 4 | 0.279 | 7.09 | 0.027 | 0.69 |
| **55176** | 6 | 0.326 | 8.28 | 0.027 | 0.69 |
| **55179** | 9 | 0.375 | 9.53 | 0.027 | 0.69 |
| **55180/12** | 12 | 0.416 | 10.57 | 0.027 | 0.69 |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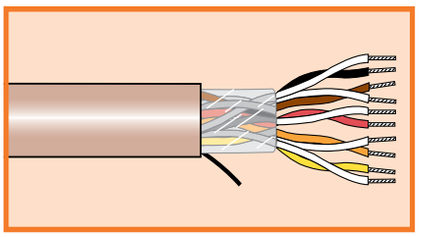
# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance
## 300 V Unshielded, Multipair



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- –80°C to +200°C
- –80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart A (page 528)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

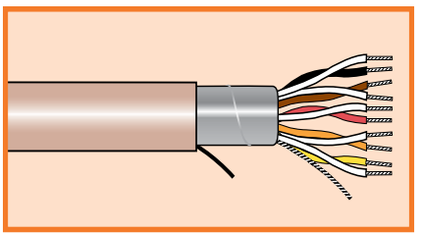
**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55021** | 1 | 0.160 | 4.06 | 0.027 | 0.69 |
| **55022** | 2 | 0.224 | 5.69 | 0.027 | 0.69 |
| **55023** | 3 | 0.237 | 6.02 | 0.027 | 0.69 |
| **55026** | 6 | 0.307 | 7.80 | 0.027 | 0.69 |
| **55029** | 9 | 0.358 | 9.09 | 0.027 | 0.69 |
| **55029/12** | 12 | 0.401 | 10.19 | 0.027 | 0.69 |

# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance
## 300 V Foil Shield, Multipair



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- –80°C to +200°C
- –80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart A (page 528)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Aluminum/polyester foil shield, with 25% overlap and foil facing inward
- Tinned copper drain wire sized the same as cable conductors
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55491** | 1 | 0.154 | 3.91 | 0.027 | 0.69 |
| **55492** | 2 | 0.210 | 5.33 | 0.027 | 0.69 |
| **55493** | 3 | 0.222 | 5.64 | 0.027 | 0.69 |
| **55496** | 6 | 0.284 | 7.21 | 0.027 | 0.69 |
| **55499** | 9 | 0.329 | 8.36 | 0.027 | 0.69 |
| **55499/11** | 11 | 0.355 | 9.02 | 0.027 | 0.69 |

### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55481** | 1 | 0.166 | 4.22 | 0.027 | 0.69 |
| **55482** | 2 | 0.230 | 5.84 | 0.027 | 0.69 |
| **55483** | 3 | 0.243 | 6.17 | 0.027 | 0.69 |
| **55486** | 6 | 0.313 | 7.95 | 0.027 | 0.69 |
| **55489** | 9 | 0.364 | 9.25 | 0.027 | 0.69 |
| **55489/12** | 12 | 0.407 | 10.34 | 0.027 | 0.69 |

### 20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55451** | 1 | 0.182 | 4.62 | 0.027 | 0.69 |
| **55452** | 2 | 0.256 | 6.50 | 0.027 | 0.69 |
| **55453** | 3 | 0.271 | 6.88 | 0.027 | 0.69 |
| **55455** | 5 | 0.324 | 8.23 | 0.027 | 0.69 |
| **55456** | 6 | 0.353 | 8.97 | 0.027 | 0.69 |
| **55459** | 9 | 0.412 | 10.46 | 0.027 | 0.69 |
| **55459/12** | 12 | 0.461 | 11.71 | 0.027 | 0.69 |

### 18 AWG (0.90 mm²)

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55371** | 1 | 0.202 | 5.13 | 0.027 | 0.69 |
| **55372** | 2 | 0.289 | 7.34 | 0.027 | 0.69 |
| **55373** | 3 | 0.306 | 7.77 | 0.027 | 0.69 |
| **55376** | 6 | 0.402 | 10.21 | 0.027 | 0.69 |
| **55379** | 9 | 0.472 | 11.99 | 0.027 | 0.69 |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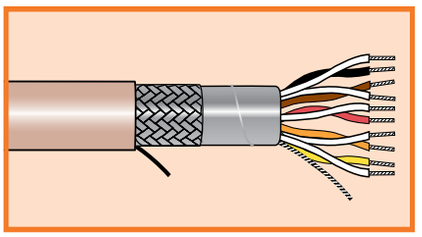
# Xtra-Guard® 5

## Maximum Temperature and Chemical Performance
## 300 V Supra-Shield® Foil/Braid, Multipair



**UL AWM 20229**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- –80°C to +200°C
- –80°C to +150°C (AWM, CMP)

### Conductor Color Coding

- Chart A (page 528)
- Nine jacket tints (tan standard)
- Custom colors available

### Materials

- Stranded tinned copper conductors
- FEP insulation
- FEP jacket
- Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors Tinned copper braid, 70% coverage min.
- Aramid fiber ripcord

### Availability

Made to order
1000 ft (305 m) minimum

### FIT® Tubing Recommendations

- FIT-650: Chemical/temperature resistant flexible fluoroelastomer
- FIT-400: Temperature/chemical resistant FEP

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55271** | 1 | 0.176 | 4.47 | 0.027 | 0.69 |
| **55272** | 2 | 0.232 | 5.89 | 0.027 | 0.69 |
| **55273** | 3 | 0.244 | 6.20 | 0.027 | 0.69 |
| **55276** | 6 | 0.306 | 7.77 | 0.027 | 0.69 |
| **55279** | 9 | 0.351 | 8.92 | 0.027 | 0.69 |
| **55279/12** | 12 | 0.388 | 9.86 | 0.027 | 0.69 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55121** | 1 | 0.188 | 4.78 | 0.027 | 0.69 |
| **55122** | 2 | 0.252 | 6.40 | 0.027 | 0.69 |
| **55123** | 3 | 0.265 | 6.73 | 0.027 | 0.69 |
| **55126** | 6 | 0.335 | 8.51 | 0.027 | 0.69 |
| **55129** | 9 | 0.386 | 9.80 | 0.027 | 0.69 |
| **55129/12** | 12 | 0.429 | 10.90 | 0.027 | 0.69 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55291** | 1 | 0.204 | 5.18 | 0.027 | 0.69 |
| **55292** | 2 | 0.278 | 7.06 | 0.027 | 0.69 |
| **55293** | 3 | 0.293 | 7.44 | 0.027 | 0.69 |
| **55296** | 6 | 0.375 | 9.53 | 0.027 | 0.69 |
| **55299** | 9 | 0.434 | 11.02 | 0.027 | 0.69 |
| **55299/12** | 12 | 0.483 | 12.27 | 0.027 | 0.69 |

**18 AWG (0.90 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **55131** | 1 | 0.224 | 5.69 | 0.027 | 0.69 |
| **55132** | 2 | 0.311 | 7.90 | 0.027 | 0.69 |
| **55133** | 3 | 0.328 | 8.33 | 0.027 | 0.69 |
| **55136** | 6 | 0.424 | 10.77 | 0.027 | 0.69 |
| **55139** | 9 | 0.504 | 12.80 | 0.032 | 0.81 |

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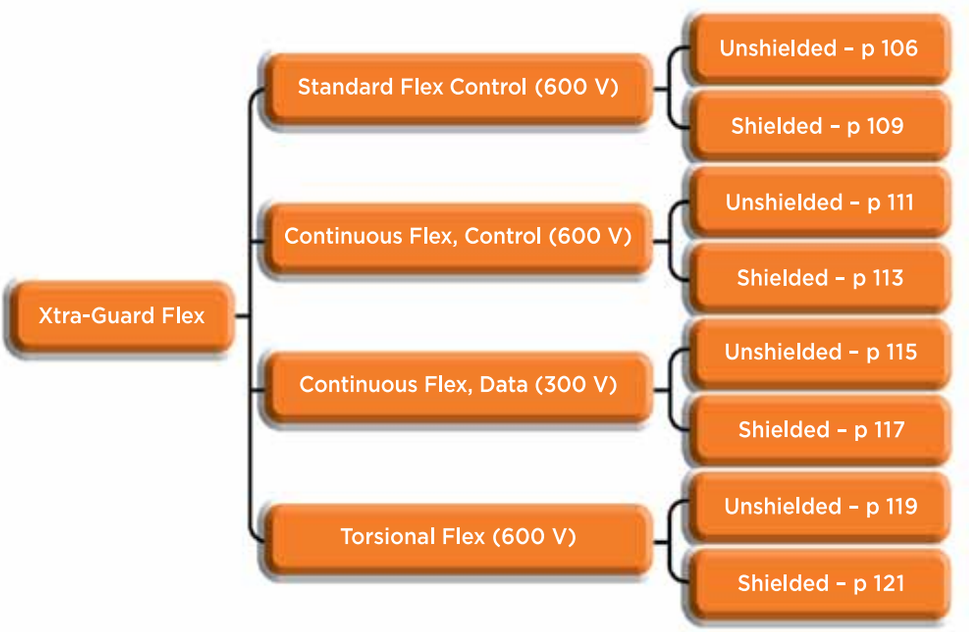
# Xtra-Guard® Flex Cables

## Flexible/Flexing

Meet a wide range of flexing needs with Xtra-Guard Flex cables, from light flexing to continuous multiaxis flexing. These long-lasting flexible cables are designed to provide excellent performance in high-flex, high torsion, and continuous flex applications, such as motion control and robotics.

| Application | Xtra-Guard Cable | Voltage Rating | Flex Cycles |
|---|---|---|---|
| **Light to moderate flexing** | Xtra-Guard Standard Flex Control | 600 | 1 million |
| **Continuous flex control** | Xtra-Guard Continuous Flex Control | 600 | 14 million |
| **Continuous flex data** | Xtra-Guard Continuous Flex Data | 300 | 6 million |
| **Torsional flex** | Xtra-Guard Torsional Flex | 600 | 1 million |



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# Xtra-Guard® Flex Cables

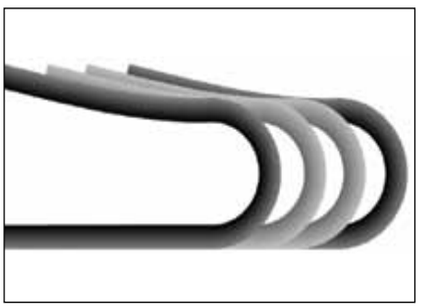
## Flexible/Flexing

Xtra-Guard cables are available in a variety of configurations to allow exactly the right cable to be selected for your flexing application. There are four common types of cable flexing movements to consider when designing and applying a high-flexing cable and they are:

- **Rolling flex, such as C-track or Cartesian motions**
- **Bending flex or "tic-toc," such as hinged panels**
- **Torsional flex, such as twisting**
- **Variable/random motion flex**

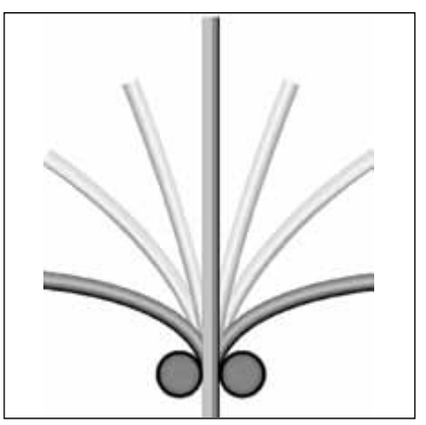
Different cable construction methods and materials are used depending on the cable flexing movement. For example: torsional cables will have a different lay length and cabling from a rolling flex cable. The performance of a cable is evaluated using physical test data and statistical analysis to produce what is known as "flex life" and overall system reliability.

Our high-flex shielding options include a double-jacket configuration with 85% braid coverage to achieve high shielding effectiveness while maintaining the desired flexibility. For torsional flex applications, we offer spiral wound shielding with 90% coverage.



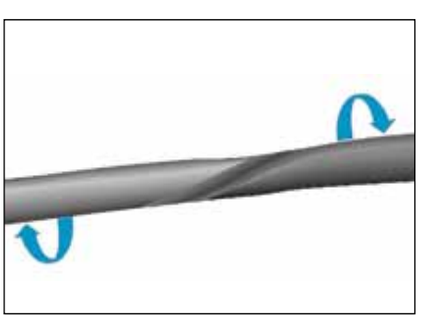
### Rolling Flex

- **Xtra-Guard Continuous Flex Control Cable (600 V)**
- **Xtra-Guard Continuous Flex Data Cable (300 V)**



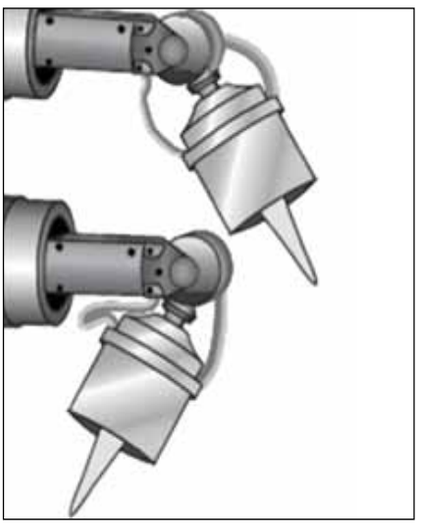
### Bending Flex

- **Xtra-Guard Standard Flex Cable (600 V)**
- **Xtra-Guard Continuous Flex Control Cable (600 V)**
- **Xtra-Guard Continuous Flex Data Cable (300 V)**



### Torsion Flex

- **Xtra-Guard Torsional Flex Cable (600 V)**



### Variable/Random Flex

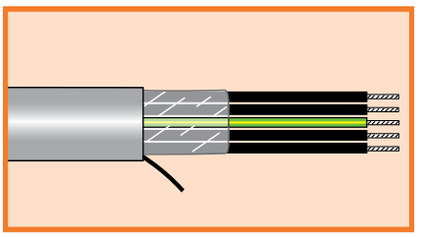
- **Xtra-Guard Standard Flex Cable (600 V)**
- **Xtra-Guard Continuous Flex Control Cable (600 V)**
- **Xtra-Guard Continuous Flex Data Cable (300 V)**

### Applications

- **Cartesian robots**
- **Articulated multi-axis robots**
- **Automation networking**
- **Machine tools**
- **Automotive assembly equipment**
- **Conveyor systems**
- **Control panels**
- **Flex and static track**
- **Transfer shuttles**
- **Sensor/actuator-to-controller connections**
- **Material-handling equipment**

# Xtra-Guard® Standard Flex Control Cable

## Light to Moderate Flex Applications
## 600 V Unshielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- –5°C to +90°C (flexing)
- –40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor (3 conductor and greater)
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**20 AWG (0.51 mm²)**

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65002** | 2 | 0.238 | 6.05 | 0.035 | 0.89 |
| **65003** | 3 | 0.251 | 6.38 | 0.035 | 0.89 |
| **65004** | 4 | 0.272 | 6.91 | 0.035 | 0.89 |
| **65005** | 5 | 0.305 | 7.75 | 0.038 | 0.97 |
| **65007** | 7 | 0.327 | 8.31 | 0.038 | 0.97 |
| **65009** | 9 | 0.416 | 10.57 | 0.040 | 1.02 |
| **65012** | 12 | 0.433 | 11.00 | 0.045 | 1.14 |
| **65018** | 18 | 0.527 | 13.39 | 0.055 | 1.40 |
| **65025** | 25 | 0.615 | 15.62 | 0.055 | 1.40 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65802** | 2 | 0.258 | 6.55 | 0.035 | 0.89 |
| **65803** | 3 | 0.272 | 6.91 | 0.035 | 0.89 |
| **65804** | 4 | 0.296 | 7.52 | 0.035 | 0.89 |
| **65805** | 5 | 0.326 | 8.28 | 0.035 | 0.89 |
| **65807** | 7 | 0.351 | 8.92 | 0.035 | 0.89 |
| **65809** | 9 | 0.445 | 11.30 | 0.035 | 0.89 |
| **65812** | 12 | 0.470 | 11.94 | 0.043 | 1.09 |
| **65818** | 18 | 0.567 | 14.40 | 0.050 | 1.27 |
| **65825** | 25 | 0.666 | 16.92 | 0.050 | 1.27 |
| **65834** | 34 | 0.769 | 19.53 | 0.060 | 1.52 |
| **65841** | 41 | 0.835 | 21.21 | 0.063 | 1.60 |
| **65850** | 50 | 0.967 | 24.56 | 0.083 | 2.11 |

**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65602** | 2 | 0.284 | 7.21 | 0.035 | 0.89 |
| **65603** | 3 | 0.300 | 7.62 | 0.035 | 0.89 |
| **65604** | 4 | 0.328 | 8.33 | 0.035 | 0.89 |
| **65605** | 5 | 0.361 | 9.17 | 0.035 | 0.89 |
| **65607** | 7 | 0.390 | 9.91 | 0.035 | 0.89 |
| **65609** | 9 | 0.509 | 12.93 | 0.041 | 1.04 |
| **65612** | 12 | 0.536 | 13.61 | 0.049 | 1.24 |
| **65618** | 18 | 0.632 | 16.05 | 0.050 | 1.27 |
| **65625** | 25 | 0.756 | 19.20 | 0.055 | 1.40 |
| **65641** | 41 | 0.959 | 24.36 | 0.075 | 1.90 |
| **65650** | 50 | 1.079 | 27.41 | 0.083 | 2.11 |

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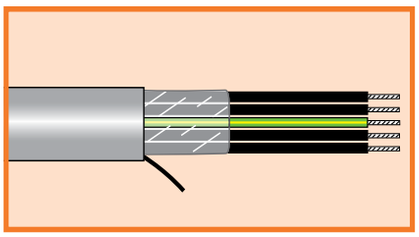
# Xtra-Guard® Standard Flex Control Cable

## Light to Moderate Flex Applications
## 600 V Unshielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- –5°C to +90°C (flexing)
- –40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor (3 conductor and greater)
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65402** | 2 | 0.330 | 8.38 | 0.044 | 1.12 |
| **65403** | 3 | 0.351 | 8.92 | 0.045 | 1.14 |
| **65404** | 4 | 0.404 | 10.26 | 0.055 | 1.40 |
| **65405** | 5 | 0.439 | 11.15 | 0.055 | 1.40 |
| **65407** | 7 | 0.479 | 12.17 | 0.058 | 1.47 |
| **65409** | 9 | 0.609 | 15.47 | 0.063 | 1.60 |
| **65412** | 12 | 0.667 | 16.94 | 0.085 | 2.16 |
| **65418** | 18 | 0.783 | 19.89 | 0.090 | 2.29 |
| **65425** | 25 | 0.953 | 24.21 | 0.110 | 2.79 |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65203** | 3 | 0.436 | 11.07 | 0.067 | 1.70 |
| **65204** | 4 | 0.500 | 12.70 | 0.080 | 2.03 |
| **65205** | 5 | 0.553 | 14.05 | 0.086 | 2.18 |
| **65207** | 7 | 0.592 | 15.04 | 0.086 | 2.18 |

**10 AWG (5.32 mm²)**

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65103** | 3 | 0.516 | 13.11 | 0.080 | 2.03 |
| **65104** | 4 | 0.568 | 14.43 | 0.084 | 2.13 |
| **65105** | 5 | 0.629 | 15.98 | 0.090 | 2.29 |

**8 AWG (8.32 mm²)**

Stranding: 65/26 (65 x 0.40 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65904** | 4 | 0.691 | 17.55 | 0.085 | 2.16 |
| **65905** | 5 | 0.765 | 19.43 | 0.090 | 2.29 |

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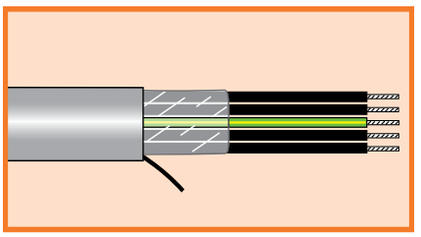
# Xtra-Guard® Standard Flex Control Cable

## Light to Moderate Flex Applications
## 600 V Unshielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- –5°C to +90°C (flexing)
- –40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**6 AWG (13.44 mm²)**

Stranding: 105/26 (105 x 0.40 mm)
Insulation thickness: 0.047 (1.19 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65704** | 4 | 0.891 | 22.63 | 0.100 | 2.54 |
| **65705** | 5 | 0.985 | 25.02 | 0.105 | 2.67 |

**4 AWG (21.5 mm²)**

Stranding: 168/26 (168 x 0.40 mm)
Insulation thickness: 0.047 (1.19 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65504** | 4 | 1.080 | 27.43 | 0.100 | 2.54 |
| **65505** | 5 | 1.207 | 30.66 | 0.110 | 2.79 |

**2 AWG (34.05 mm²)**

Stranding: 266/26 (266 x 0.40 mm)
Insulation thickness: 0.047 (1.19 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65304** | 4 | 1.273 | 32.33 | 0.120 | 3.05 |
| **65305** | 5 | 1.428 | 36.27 | 0.135 | 3.43 |

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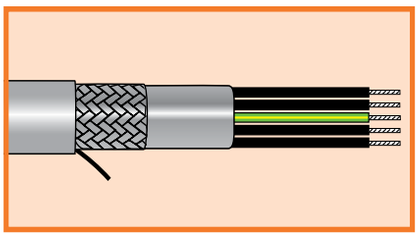
# Xtra-Guard® Standard Flex Control Cable

## Light to Moderate Flex Applications
## 600 V Shielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC Insulation
- Oil-resistant PVC jacket
- Tinned copper braid shield, 85% coverage

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**20 AWG (0.51 mm²)**

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 65003CY | 3 | 0.339 | 8.61 | 0.035 | 0.89 |
| 65007CY | 7 | 0.409 | 10.39 | 0.035 | 0.89 |
| 65012CY | 12 | 0.521 | 13.23 | 0.040 | 1.02 |
| 65025CY | 25 | 0.712 | 18.08 | 0.050 | 1.27 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 65803CY | 3 | 0.360 | 9.14 | 0.035 | 0.89 |
| 65804CY | 4 | 0.384 | 9.75 | 0.035 | 0.89 |
| 65805CY | 5 | 0.414 | 10.52 | 0.035 | 0.89 |
| 65807CY | 7 | 0.439 | 11.15 | 0.035 | 0.89 |
| 65812CY | 12 | 0.568 | 14.43 | 0.045 | 1.14 |
| 65818CY | 18 | 0.671 | 17.04 | 0.053 | 1.35 |
| 65825CY | 25 | 0.776 | 19.71 | 0.053 | 1.35 |

**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 65603CY | 3 | 0.388 | 9.86 | 0.035 | 0.89 |
| 65604CY | 4 | 0.416 | 10.57 | 0.035 | 0.89 |
| 65605CY | 5 | 0.449 | 11.40 | 0.035 | 0.89 |
| 65607CY | 7 | 0.484 | 12.29 | 0.035 | 0.89 |
| 65612CY | 12 | 0.640 | 16.26 | 0.052 | 1.32 |
| 65618CY | 18 | 0.767 | 19.48 | 0.062 | 1.57 |
| 65625CY | 25 | 0.901 | 22.89 | 0.067 | 1.70 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 65403CY | 3 | 0.443 | 11.25 | 0.042 | 1.07 |
| 65404CY | 4 | 0.486 | 12.34 | 0.047 | 1.19 |
| 65405CY | 5 | 0.537 | 13.64 | 0.052 | 1.32 |
| 65407CY | 7 | 0.581 | 14.76 | 0.057 | 1.45 |
| 65412CY | 12 | 0.732 | 18.59 | 0.062 | 1.57 |
| 65418CY | 18 | 0.890 | 22.61 | 0.083 | 2.11 |

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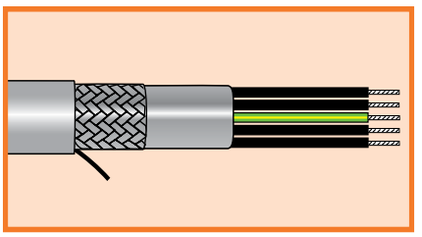
# Xtra-Guard® Standard Flex Control Cable

## Light to Moderate Flex Applications
## 600 V Shielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- –5°C to +90°C (flexing)
- –40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: slate

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC Insulation
- PVC inner jacket
- Oil-resistant PVC jacket
- Tinned copper braid shield, 85% coverage

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**12 AWG (3.31 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65203CY** | 3 | 0.530 | 13.46 | 0.060 | 1.52 |
| **65204CY** | 4 | 0.616 | 15.65 | 0.066 | 1.68 |
| **65205CY** | 5 | 0.671 | 17.04 | 0.073 | 1.85 |

**10 AWG (5.32 mm²)**

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **65103CY** | 3 | 0.630 | 16.00 | 0.070 | 1.78 |
| **65104CY** | 4 | 0.684 | 17.37 | 0.070 | 1.78 |
| **65105CY** | 5 | 0.757 | 19.23 | 0.077 | 1.96 |
| **65107CY** | 7 | 0.823 | 20.90 | 0.083 | 2.11 |

**8 to 2 AWG (8.32 to 34.05 mm²)**

| Part No. | Conductors | Wire Size | | Stranding | | Nominal Diameter | | Jacket Thickness | | Insulation Thickness | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **65904CY** | 4 | 8 | 8.32 | 65/26 | 65 x 0.40 | 0.822 | 20.88 | 0.075 | 1.90 | 0.032 | 0.81 |
| **65704CY** | 4 | 6 | 13.44 | 105/26 | 105 x 0.40 | 1.062 | 26.97 | 0.100 | 2.54 | 0.047 | 1.19 |
| **65504CY** | 4 | 4 | 21.55 | 168/26 | 168 x 0.40 | 1.251 | 31.78 | 0.100 | 2.54 | 0.047 | 1.19 |
| **65304CY** | 4 | 2 | 34.05 | 266/26 | 266 x 0.40 | 1.453 | 36.91 | 0.110 | 2.79 | 0.047 | 1.19 |

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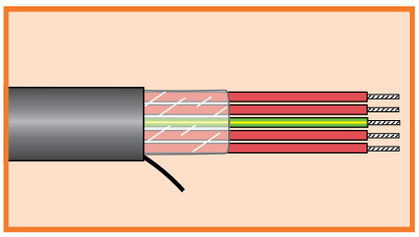
# Xtra-Guard® Continuous Flex Control

## C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
## 600 V Unshielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Finely stranded tinned copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**20 AWG (0.51 mm²)**

Stranding: 63/38 (63 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85003** | 3 | 0.272 | 6.91 | 0.035 | 0.89 |
| **85004** | 4 | 0.297 | 7.54 | 0.035 | 0.89 |
| **85005** | 5 | 0.323 | 8.20 | 0.035 | 0.89 |
| **85007** | 7 | 0.388 | 9.86 | 0.040 | 1.02 |
| **85012** | 12 | 0.460 | 11.68 | 0.045 | 1.14 |
| **85018** | 18 | 0.548 | 13.92 | 0.050 | 1.27 |
| **85025** | 25 | 0.691 | 17.55 | 0.065 | 1.65 |
| **85034** | 34 | 0.746 | 18.95 | 0.065 | 1.65 |

**18 AWG (0.85 mm²)**

Stranding: 105/38 (105 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85803** | 3 | 0.298 | 7.57 | 0.035 | 0.89 |
| **85804** | 4 | 0.326 | 8.28 | 0.035 | 0.89 |
| **85805** | 5 | 0.355 | 9.02 | 0.035 | 0.89 |
| **85807** | 7 | 0.438 | 11.13 | 0.045 | 1.14 |
| **85812** | 12 | 0.520 | 13.21 | 0.050 | 1.27 |
| **85815** | 15 | 0.577 | 14.66 | 0.050 | 1.27 |
| **85818** | 18 | 0.608 | 15.44 | 0.050 | 1.27 |
| **85825** | 25 | 0.767 | 19.48 | 0.065 | 1.65 |
| **85834** | 34 | 0.830 | 21.08 | 0.065 | 1.65 |

**16 AWG (1.36 mm²)**

Stranding: 168/38 (168 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85603** | 3 | 0.331 | 8.41 | 0.035 | 0.89 |
| **85604** | 4 | 0.362 | 9.19 | 0.035 | 0.89 |
| **85605** | 5 | 0.396 | 10.06 | 0.035 | 0.89 |
| **85607** | 7 | 0.478 | 12.14 | 0.040 | 1.02 |
| **85612** | 12 | 0.573 | 14.55 | 0.045 | 1.14 |
| **85618** | 18 | 0.674 | 17.12 | 0.045 | 1.14 |
| **85625** | 25 | 0.862 | 21.89 | 0.065 | 1.65 |
| **85634** | 34 | 0.936 | 23.77 | 0.065 | 1.65 |
| **85650** | 50 | 1.161 | 29.49 | 0.085 | 2.16 |

**14 AWG (2.16 mm²)**

Stranding: 266/38 (266 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85404** | 4 | 0.424 | 10.77 | 0.050 | 1.27 |
| **85407** | 7 | 0.582 | 14.78 | 0.070 | 1.78 |

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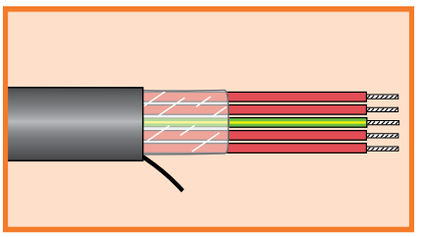
# Xtra-Guard® Continuous Flex Control

## C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
## 600 V Unshielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Finely stranded tinned copper conductors
- Lubricated PVC insulation
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**12 AWG (3.35 mm²)**

Stranding: 413/38 (413 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85204** | 4 | 0.527 | 13.39 | 0.070 | 1.78 |
| **85207** | 7 | 0.729 | 18.52 | 0.100 | 2.54 |

**10 AWG (5.34 mm²)**

Stranding: 658/38 (658 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85104** | 4 | 0.590 | 14.99 | 0.070 | 1.78 |
| **85107** | 7 | 0.816 | 20.73 | 0.100 | 2.54 |

**8 to 2 AWG (8.62 to 33.86 mm²)**

| Part No. | Conductors | Wire Size | | Stranding | | Nominal Diameter | | Jacket Thickness | | Insulation Thickness | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **85904** | 4 | 8 | 8.62 | 266/32 | 266 x 0.20 | 0.721 | 18.31 | 0.070 | 1.78 | 0.032 | 0.81 |
| **85704** | 4 | 6 | 13.38 | 413/32 | 413 x 0.20 | 0.935 | 23.75 | 0.085 | 2.16 | 0.047 | 1.19 |
| **85504** | 4 | 4 | 21.55 | 665/32 | 665 x 0.20 | 1.076 | 27.33 | 0.085 | 2.16 | 0.047 | 1.19 |
| **85304** | 4 | 2 | 33.86 | 1045/32 | 1045 x 0.20 | 1.250 | 31.75 | 0.085 | 2.16 | 0.047 | 1.19 |

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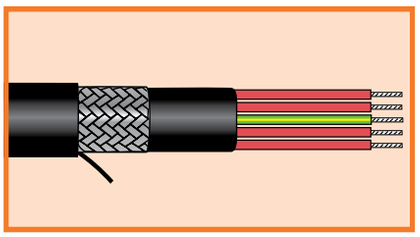
# Xtra-Guard® Continuous Flex Control

## C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
## 600 V Shielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Tinned copper braid shield, 85% coverage
- PVC inner jacket
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**20 AWG (0.51 mm²)**

Stranding: 63/38 (63 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85003CY** | 3 | 0.350 | 8.89 | 0.035 | 0.89 |
| **85004CY** | 4 | 0.375 | 9.53 | 0.035 | 0.89 |
| **85005CY** | 5 | 0.411 | 10.44 | 0.040 | 1.02 |
| **85007CY** | 7 | 0.482 | 12.24 | 0.040 | 1.02 |
| **85010CY** | 10 | 0.545 | 13.84 | 0.040 | 1.02 |
| **85012CY** | 12 | 0.564 | 14.33 | 0.050 | 1.27 |
| **85018CY** | 18 | 0.662 | 16.81 | 0.060 | 1.52 |
| **85025CY** | 25 | 0.812 | 20.62 | 0.070 | 1.78 |

**18 AWG (0.85 mm²)**

Stranding: 105/38 (105 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85803CY** | 3 | 0.376 | 9.55 | 0.035 | 0.89 |
| **85804CY** | 4 | 0.414 | 10.52 | 0.040 | 1.02 |
| **85805CY** | 5 | 0.453 | 11.51 | 0.040 | 1.02 |
| **85807CY** | 7 | 0.532 | 13.51 | 0.045 | 1.14 |
| **85812CY** | 12 | 0.634 | 16.10 | 0.060 | 1.52 |
| **85818CY** | 18 | 0.725 | 18.42 | 0.060 | 1.52 |
| **85825CY** | 25 | 0.908 | 23.06 | 0.080 | 2.03 |

**16 AWG (1.36 mm²)**

Stranding: 168/38 (168 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85603CY** | 3 | 0.419 | 10.64 | 0.035 | 0.89 |
| **85604CY** | 4 | 0.460 | 11.68 | 0.040 | 1.02 |
| **85605CY** | 5 | 0.500 | 12.70 | 0.040 | 1.02 |
| **85607CY** | 7 | 0.602 | 15.29 | 0.055 | 1.40 |
| **85612CY** | 12 | 0.700 | 17.78 | 0.060 | 1.52 |
| **85615CY** | 15 | 0.769 | 19.53 | 0.060 | 1.52 |
| **85618CY** | 18 | 0.805 | 20.45 | 0.060 | 1.52 |
| **85625CY** | 25 | 0.973 | 24.71 | 0.065 | 1.65 |
| **85634CY** | 34 | 1.087 | 27.61 | 0.085 | 2.16 |

**14 AWG (2.16 mm²)**

Stranding: 266/38 (266 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85404CY** | 4 | 0.528 | 13.41 | 0.050 | 1.27 |
| **85407CY** | 7 | 0.676 | 17.17 | 0.065 | 1.65 |

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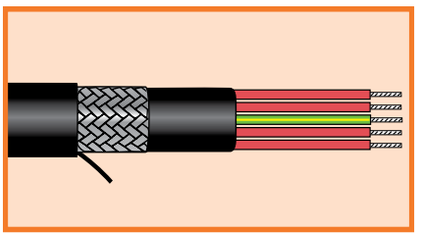
# Xtra-Guard® Continuous Flex Control

## C-Track or High Flexing Applications Up to 14 Million Flex Life Cycles
## 600 V Shielded, Multiconductor



**UL AWM 2587**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -40°C to +90°C (stationary)

### Conductor Color Coding

- Numbered red conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Finely stranded bare copper conductors
- Lubricated PVC insulation
- Tinned copper braid shield, 85% coverage
- PVC inner jacket
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**12 AWG (3.35 mm²)**

Stranding: 413/38 (413 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85204CY** | 4 | 0.641 | 16.28 | 0.075 | 1.90 |
| **85207CY** | 7 | 0.836 | 21.23 | 0.100 | 2.54 |

**10 AWG (5.34 mm²)**

Stranding: 658/38 (658 x 0.10 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **85104CY** | 4 | 0.707 | 17.96 | 0.070 | 1.78 |
| **85107CY** | 7 | 0.947 | 24.05 | 0.100 | 2.54 |

**8 to 2 AWG (8.62 to 33.86 mm²)**

| Part No. | Conductors | Wire Size | | Stranding | | Nominal Diameter | | Jacket Thickness | | Insulation Thickness | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **85904CY** | 4 | 8 | 8.62 | 266/32 | 266 x 0.20 | 0.882 | 22.40 | 0.085 | 2.16 | 0.032 | 0.81 |
| **85704CY** | 4 | 6 | 13.38 | 413/32 | 413 x 0.20 | 1.066 | 27.08 | 0.085 | 2.16 | 0.047 | 1.19 |
| **85504CY** | 4 | 4 | 21.55 | 665/32 | 665 x 0.20 | 1.227 | 31.17 | 0.085 | 2.16 | 0.047 | 1.19 |
| **85304CY** | 4 | 2 | 33.86 | 1045/32 | 1045 x 0.20 | 1.431 | 36.35 | 0.095 | 2.41 | 0.047 | 1.19 |



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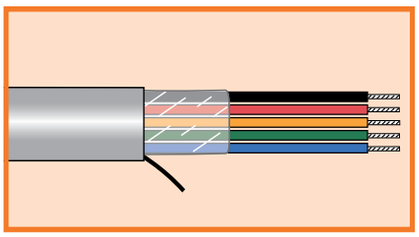
# Xtra-Guard® Continuous Flex Data

## C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
## 300 V Unshielded, Multiconductor



**UL CM**
**UL AWM 2661**
**CSA AWM I/II A/B FT4**
**CSA CMG**
**CE**

### Operating Temperature

- +5°C to +105°C (flexing)
- -10°C to +105°C (stationary)

### Conductor Color Coding

- Chart D (page 531)
- Jacket color: slate

### Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **86002** | 2 | 0.154 | 3.91 | 0.040 | 1.02 |
| **86003** | 3 | 0.160 | 4.06 | 0.040 | 1.02 |
| **86004** | 4 | 0.170 | 4.32 | 0.040 | 1.02 |
| **86005** | 5 | 0.180 | 4.57 | 0.040 | 1.02 |
| **86007** | 7 | 0.203 | 5.16 | 0.040 | 1.02 |
| **86012** | 12 | 0.263 | 6.68 | 0.040 | 1.02 |
| **86018** | 18 | 0.262 | 6.65 | 0.040 | 1.02 |
| **86025** | 25 | 0.309 | 7.85 | 0.040 | 1.02 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **86102** | 2 | 0.162 | 4.11 | 0.040 | 1.02 |
| **86103** | 3 | 0.168 | 4.27 | 0.040 | 1.02 |
| **86104** | 4 | 0.179 | 4.55 | 0.040 | 1.02 |
| **86105** | 5 | 0.191 | 4.85 | 0.040 | 1.02 |
| **86107** | 7 | 0.217 | 5.51 | 0.040 | 1.02 |
| **86112** | 12 | 0.283 | 7.19 | 0.040 | 1.02 |
| **86118** | 18 | 0.282 | 7.16 | 0.040 | 1.02 |
| **86125** | 25 | 0.335 | 8.51 | 0.040 | 1.02 |

**24 AWG (0.20 mm²)**

Stranding: 10/34 (10 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **86202** | 2 | 0.172 | 4.37 | 0.040 | 1.02 |
| **86203** | 3 | 0.179 | 4.55 | 0.040 | 1.02 |
| **86204** | 4 | 0.191 | 4.85 | 0.040 | 1.02 |
| **86205** | 5 | 0.205 | 5.21 | 0.040 | 1.02 |
| **86207** | 7 | 0.233 | 5.92 | 0.040 | 1.02 |
| **86212** | 12 | 0.307 | 7.80 | 0.040 | 1.02 |
| **86218** | 18 | 0.307 | 7.80 | 0.040 | 1.02 |
| **86225** | 25 | 0.376 | 9.55 | 0.045 | 1.14 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **86302** | 2 | 0.188 | 4.78 | 0.040 | 1.02 |
| **86303** | 3 | 0.197 | 5.00 | 0.040 | 1.02 |
| **86304** | 4 | 0.211 | 5.36 | 0.040 | 1.02 |
| **86305** | 5 | 0.227 | 5.77 | 0.040 | 1.02 |
| **86307** | 7 | 0.260 | 6.60 | 0.040 | 1.02 |
| **86312** | 12 | 0.347 | 8.81 | 0.040 | 1.02 |
| **86318** | 18 | 0.347 | 8.81 | 0.040 | 1.02 |
| **86325** | 25 | 0.426 | 10.82 | 0.045 | 1.14 |

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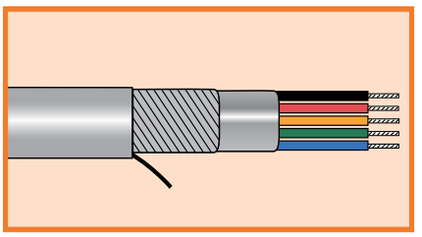
# Xtra-Guard® Continuous Flex Data

## C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
## 300 V Foil/Spiral Shield, Multiconductor



**UL CM**
**UL AWM 2661**
**CSA AWM I/II A/B FT4**
**CSA CMG**
**CE**

### Operating Temperature

- +5°C to 105°C (flexing)
- -10°C to 105°C (stationary)

### Conductor Color Coding

- Chart D (page 531)
- Jacket color: slate

### Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Foil +spiral shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Tinned copper spiral shield, 90% coverage
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 86002CY | 2 | 0.174 | 4.42 | 0.040 | 1.02 |
| 86003CY | 3 | 0.180 | 4.57 | 0.040 | 1.02 |
| 86004CY | 4 | 0.190 | 4.83 | 0.040 | 1.02 |
| 86005CY | 5 | 0.200 | 5.08 | 0.040 | 1.02 |
| 86007CY | 7 | 0.223 | 5.66 | 0.040 | 1.02 |
| 86012CY | 12 | 0.283 | 7.19 | 0.040 | 1.02 |
| 86018CY | 18 | 0.282 | 7.16 | 0.040 | 1.02 |
| 86025CY | 25 | 0.329 | 8.36 | 0.040 | 1.02 |

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 86102CY | 2 | 0.182 | 4.62 | 0.040 | 1.02 |
| 86103CY | 3 | 0.188 | 4.78 | 0.040 | 1.02 |
| 86104CY | 4 | 0.199 | 5.05 | 0.040 | 1.02 |
| 86105CY | 5 | 0.211 | 5.36 | 0.040 | 1.02 |
| 86107CY | 7 | 0.237 | 6.02 | 0.040 | 1.02 |
| 86112CY | 12 | 0.303 | 7.70 | 0.040 | 1.02 |
| 86118CY | 18 | 0.302 | 7.67 | 0.040 | 1.02 |
| 86125CY | 25 | 0.355 | 9.02 | 0.040 | 1.02 |

**24 AWG (0.20 mm²)**

Stranding: 10/34 (10 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 86202CY | 2 | 0.192 | 4.88 | 0.040 | 1.02 |
| 86203CY | 3 | 0.199 | 5.05 | 0.040 | 1.02 |
| 86204CY | 4 | 0.211 | 5.36 | 0.040 | 1.02 |
| 86205CY | 5 | 0.225 | 5.72 | 0.040 | 1.02 |
| 86207CY | 7 | 0.253 | 6.43 | 0.040 | 1.02 |
| 86212CY | 12 | 0.327 | 8.31 | 0.040 | 1.02 |
| 86218CY | 18 | 0.327 | 8.31 | 0.040 | 1.02 |
| 86225CY | 25 | 0.396 | 10.06 | 0.045 | 1.14 |

**22 AWG (0.38 mm2)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 86302CY | 2 | 0.208 | 5.28 | 0.040 | 1.02 |
| 86303CY | 3 | 0.217 | 5.51 | 0.040 | 1.02 |
| 86304CY | 4 | 0.231 | 5.87 | 0.040 | 1.02 |
| 86305CY | 5 | 0.247 | 6.27 | 0.040 | 1.02 |
| 86307CY | 7 | 0.280 | 7.11 | 0.040 | 1.02 |
| 86312CY | 12 | 0.367 | 9.32 | 0.040 | 1.02 |
| 86318CY | 18 | 0.367 | 9.32 | 0.040 | 1.02 |
| 86325CY | 25 | 0.446 | 11.33 | 0.045 | 1.14 |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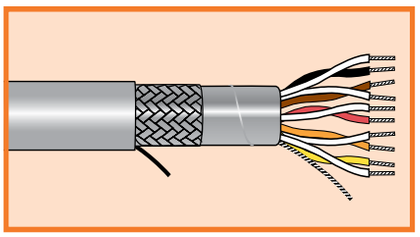
# Xtra-Guard® Continuous Flex Data

## C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
## 300 V Foil/Braid Shield, Multipair



**UL CM**
**UL AWM 2661**
**CSA AWM I/II A/B FT4**
**CSA CMG**
**CE**

### Operating Temperature

- +5°C to +105°C (flexing)
- -10°C to +105°C (stationary)

### Conductor Color Coding

- Chart A (page 528)
- Jacket color: slate

### Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Shield: Combination foil and braid
  Aluminum/polyester foil shield, with 25% overlap and tinned copper drain wire
  Tinned copper braid with 85% coverage
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **86401CY** | 1 | 0.186 | 4.72 | 0.040 | 1.02 |
| **86402CY** | 2 | 0.231 | 5.87 | 0.040 | 1.02 |
| **86403CY** | 3 | 0.240 | 6.10 | 0.040 | 1.02 |
| **86404CY** | 4 | 0.256 | 6.50 | 0.040 | 1.02 |
| **86405CY** | 5 | 0.274 | 6.96 | 0.040 | 1.02 |
| **86406CY** | 6 | 0.293 | 7.44 | 0.040 | 1.02 |
| **86408CY** | 8 | 0.331 | 8.41 | 0.040 | 1.02 |
| **86410CY** | 10 | 0.365 | 9.27 | 0.045 | 1.14 |
| **86414CY** | 14 | 0.381 | 9.68 | 0.045 | 1.14 |

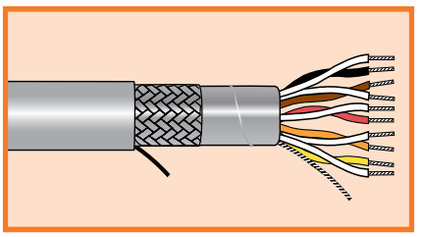
**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **86501CY** | 1 | 0.194 | 4.93 | 0.040 | 1.02 |
| **86502CY** | 2 | 0.244 | 6.20 | 0.040 | 1.02 |
| **86503CY** | 3 | 0.254 | 6.45 | 0.040 | 1.02 |
| **86504CY** | 4 | 0.272 | 6.91 | 0.040 | 1.02 |
| **86505CY** | 5 | 0.292 | 7.42 | 0.040 | 1.02 |
| **86506CY** | 6 | 0.313 | 7.95 | 0.040 | 1.02 |
| **86508CY** | 8 | 0.355 | 9.02 | 0.040 | 1.02 |
| **86510CY** | 10 | 0.392 | 9.96 | 0.045 | 1.14 |
| **86514CY** | 14 | 0.426 | 10.82 | 0.053 | 1.35 |

# Xtra-Guard® Continuous Flex Data

## C-Track or High Flexing Applications Up to 6 Million Flex Life Cycles
## 300 V Foil/Braid Shield, Multipair



**UL CM**
**UL AWM 2661**
**CSA AWM I/II A/B FT4**
**CSA CMG**
**CE**

### Operating Temperature

- +5°C to +105°C (flexing)
- -10°C to +105°C (stationary)

### Conductor Color Coding

- Chart A (page 528)
- Jacket color: slate

### Materials

- Finely stranded tinned copper conductors
- Lubricated semi-rigid PVC insulation
- Shield: Combination foil and braid
  Aluminum/polyester foil shield, with 25% overlap and tinned copper drain wire
  Tinned copper braid with 85% coverage
- Oil-resistant PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**24 AWG (0.20 mm²)**

Stranding: 10/34 (10 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 86601CY | 1 | 0.204 | 5.18 | 0.040 | 1.02 |
| 86602CY | 2 | 0.260 | 6.60 | 0.040 | 1.02 |
| 86603CY | 3 | 0.272 | 6.91 | 0.040 | 1.02 |
| 86604CY | 4 | 0.292 | 7.42 | 0.040 | 1.02 |
| 86605CY | 5 | 0.314 | 7.98 | 0.040 | 1.02 |
| 86606CY | 6 | 0.337 | 8.56 | 0.040 | 1.02 |
| 86608CY | 8 | 0.385 | 9.78 | 0.040 | 1.02 |
| 86610CY | 10 | 0.427 | 10.85 | 0.045 | 1.14 |
| 86614CY | 14 | 0.463 | 11.76 | 0.053 | 1.35 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 86701CY | 1 | 0.220 | 5.59 | 0.040 | 1.02 |
| 86702CY | 2 | 0.287 | 7.29 | 0.040 | 1.02 |
| 86703CY | 3 | 0.301 | 7.65 | 0.040 | 1.02 |
| 86704CY | 4 | 0.324 | 8.23 | 0.040 | 1.02 |
| 86705CY | 5 | 0.350 | 8.89 | 0.040 | 1.02 |
| 86706CY | 6 | 0.377 | 9.58 | 0.040 | 1.02 |
| 86708CY | 8 | 0.443 | 11.25 | 0.045 | 1.14 |
| 86710CY | 10 | 0.497 | 12.62 | 0.053 | 1.35 |
| 86714CY | 14 | 0.527 | 13.39 | 0.053 | 1.35 |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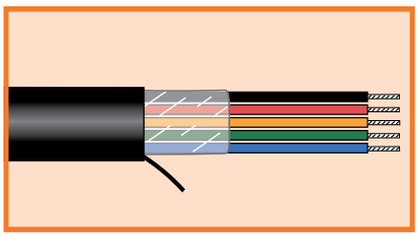
# Xtra-Guard® Torsional Flex

## Torsional Cable with 360° Twisting
## 600 V Unshielded, Multiconductor



**UL AWM 20234**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -10°C to +80°C (flexing)
- -30°C to +80°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Oil-resistant polyurethane jacket

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **87003** | 3 | 0.227 | 5.77 | 0.050 | 1.27 |
| **87004** | 4 | 0.242 | 6.15 | 0.050 | 1.27 |
| **87005** | 5 | 0.259 | 6.58 | 0.050 | 1.27 |
| **87007** | 7 | 0.294 | 7.47 | 0.050 | 1.27 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **87103** | 3 | 0.244 | 6.20 | 0.050 | 1.27 |
| **87104** | 4 | 0.261 | 6.63 | 0.050 | 1.27 |
| **87105** | 5 | 0.281 | 7.14 | 0.050 | 1.27 |
| **87107** | 7 | 0.321 | 8.15 | 0.050 | 1.27 |

**20 AWG (0.62 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **87203** | 3 | 0.262 | 6.65 | 0.050 | 1.27 |
| **87204** | 4 | 0.281 | 7.14 | 0.050 | 1.27 |
| **87205** | 5 | 0.302 | 7.67 | 0.050 | 1.27 |
| **87207** | 7 | 0.347 | 8.81 | 0.050 | 1.27 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **87303** | 3 | 0.283 | 7.19 | 0.050 | 1.27 |
| **87304** | 4 | 0.305 | 7.75 | 0.050 | 1.27 |
| **87305** | 5 | 0.329 | 8.36 | 0.050 | 1.27 |
| **87307** | 7 | 0.380 | 9.65 | 0.050 | 1.27 |

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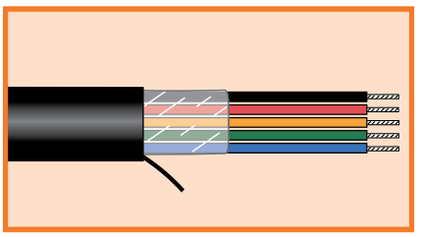
# Xtra-Guard® Torsional Flex

## Torsional Cable with 360° Twisting
## 600 V Unshielded, Multiconductor



**UL AWM 20234**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -10°C to +80°C (flexing)
- -30°C to +80°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Oil-resistant polyurethane jacket

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **87403** | 3 | 0.302 | 7.67 | 0.050 | 1.27 |
| **87404** | 4 | 0.327 | 8.31 | 0.050 | 1.27 |
| **87405** | 5 | 0.354 | 8.99 | 0.050 | 1.27 |
| **87407** | 7 | 0.410 | 10.41 | 0.050 | 1.27 |

**14 AWG (2.07 mm²)**

Stranding: 19/0.0147 (19 x 0.37 mm)
Insulation thickness: 0.027 (0.69 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **87503** | 3 | 0.382 | 9.70 | 0.050 | 1.27 |
| **87504** | 4 | 0.417 | 10.59 | 0.050 | 1.27 |
| **87505** | 5 | 0.455 | 11.56 | 0.050 | 1.27 |
| **87507** | 7 | 0.535 | 13.59 | 0.050 | 1.27 |

**12 AWG (3.29 mm²)**

Stranding: 19/0.0185 (19 x 0.47 mm)
Insulation thickness: 0.027 (0.69 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **87603** | 3 | 0.444 | 11.28 | 0.060 | 1.52 |
| **87604** | 4 | 0.483 | 12.27 | 0.060 | 1.52 |
| **87605** | 5 | 0.526 | 13.36 | 0.060 | 1.52 |
| **87607** | 7 | 0.618 | 15.70 | 0.060 | 1.52 |

**10 AWG (5.22 mm²)**

Stranding: 37/0.0167 (37 x 0.42 mm)
Insulation thickness: 0.030 (0.76 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **87703** | 3 | 0.508 | 12.90 | 0.060 | 1.52 |
| **87704** | 4 | 0.555 | 14.10 | 0.060 | 1.52 |
| **87705** | 5 | 0.627 | 15.93 | 0.070 | 1.78 |
| **87707** | 7 | 0.737 | 18.72 | 0.070 | 1.78 |

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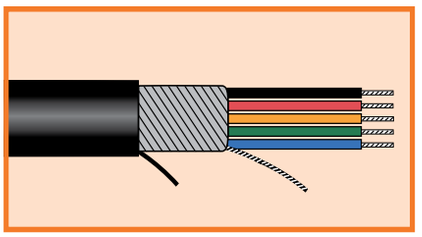
# Xtra-Guard® Torsional Flex

## Torsional Cable with 360° Twisting
## 600 V Shielded, Multiconductor



**UL AWM 20234**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -10°C to +80°C (flexing)
- -30°C to +80°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Tinned copper spiral shield, 90% coverage
- Oil-resistant polyurethane jacket

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 87003CY | 3 | 0.246 | 6.25 | 0.050 | 1.27 |
| 87004CY | 4 | 0.261 | 6.63 | 0.050 | 1.27 |
| 87005CY | 5 | 0.278 | 7.06 | 0.050 | 1.27 |
| 87007CY | 7 | 0.313 | 7.95 | 0.050 | 1.27 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 87103CY | 3 | 0.263 | 6.68 | 0.050 | 1.27 |
| 87104CY | 4 | 0.280 | 7.11 | 0.050 | 1.27 |
| 87105CY | 5 | 0.300 | 7.62 | 0.050 | 1.27 |
| 87107CY | 7 | 0.340 | 8.64 | 0.050 | 1.27 |

**20 AWG (0.62 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 87203CY | 3 | 0.281 | 7.14 | 0.050 | 1.27 |
| 87204CY | 4 | 0.300 | 7.62 | 0.050 | 1.27 |
| 87205CY | 5 | 0.321 | 8.15 | 0.050 | 1.27 |
| 87207CY | 7 | 0.366 | 9.30 | 0.050 | 1.27 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 87303CY | 3 | 0.302 | 7.67 | 0.050 | 1.27 |
| 87304CY | 4 | 0.324 | 8.23 | 0.050 | 1.27 |
| 87305CY | 5 | 0.348 | 8.84 | 0.050 | 1.27 |
| 87307CY | 7 | 0.399 | 10.13 | 0.050 | 1.27 |

RoHS Compliant CA PROP 65

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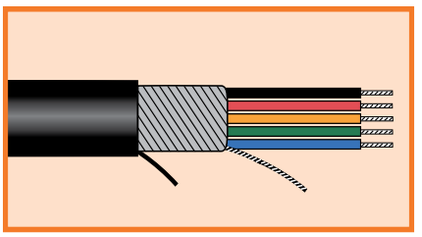
# Xtra-Guard® Torsional Flex

## Torsional Cable with 360° Twisting
## 600 V Shielded, Multiconductor



**UL AWM 20234**
**CSA AWM I/II A/B FT1**
**CE**

### Operating Temperature

- -10°C to +80°C (flexing)
- -30°C to +80°C (stationary)

### Conductor Color Coding

- Numbered black conductors
- 1 yellow/green ground conductor
- Jacket color: black

### Materials

- Stranded bare copper conductors
- Thermoplastic elastomer insulation
- Tinned copper spiral shield, 90% coverage
- Oil-resistant polyurethane jacket

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-FLEX: Highly flexible, cross-linked silicone rubber
- FIT-650: Chemical/ temperature resistant cross-linked fluoroelastomer

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 87403CY | 3 | 0.321 | 8.15 | 0.050 | 1.27 |
| 87404CY | 4 | 0.346 | 8.79 | 0.050 | 1.27 |
| 87405CY | 5 | 0.373 | 9.47 | 0.050 | 1.27 |
| 87407CY | 7 | 0.429 | 10.90 | 0.050 | 1.27 |

**14 AWG (2.07 mm²)**

Stranding: 19/0.0147 (19 x 0.37 mm)
Insulation thickness: 0.027 (0.69 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 87503CY | 3 | 0.401 | 10.19 | 0.050 | 1.27 |
| 87504CY | 4 | 0.436 | 11.07 | 0.050 | 1.27 |
| 87505CY | 5 | 0.474 | 12.04 | 0.050 | 1.27 |
| 87507CY | 7 | 0.554 | 14.07 | 0.050 | 1.27 |

**12 AWG (3.29 mm²)**

Stranding: 19/0.0185 (19 x 0.47 mm)
Insulation thickness: 0.027 (0.69 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 87603CY | 3 | 0.463 | 11.76 | 0.060 | 1.52 |
| 87604CY | 4 | 0.502 | 12.75 | 0.060 | 1.52 |
| 87605CY | 5 | 0.545 | 13.84 | 0.060 | 1.52 |
| 87607CY | 7 | 0.637 | 16.18 | 0.060 | 1.52 |

**10 AWG (5.22 mm²)**

Stranding: 37/0.0167 (37 x 0.42 mm)
Insulation thickness: 0.030 (0.76 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| 87703CY | 3 | 0.527 | 13.39 | 0.060 | 1.52 |
| 87704CY | 4 | 0.574 | 14.58 | 0.060 | 1.52 |
| 87705CY | 5 | 0.646 | 16.41 | 0.070 | 1.78 |
| 87707CY | 7 | 0.756 | 19.20 | 0.070 | 1.78 |

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# Alpha Wire Industrial Series

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# Alpha Wire Industrial Series

## Advanced cable products for industrial applications

From the factory floor to process control, the Alpha Wire Industrial Series (AWIS) cable line is well suited to the widest range of industrial applications. We offer a variety of cables for general needs such as control wiring in both stationary and moving components. We also offer application-specific configurations for use with drives, servo systems, and factory protocols.

AWIS cables are crafted for rugged, reliable performance in your industrial equipment. They are designed to handle even your toughest applications, whether your need is continuous flexing, superior oil and chemical resistance, or excellent mechanical and electrical performance.

Choose the AWIS cable with the properties you need:

- **TC-ER, PLTC, MTW, and WTTC ratings**
- **Oil and chemical resistance**
- **UV resistance**
- **Direct burial**
- **Abrasion resistance**
- **EMI protection**
- **High flex cycling**

### AWIS cables give reliable performance

#### Series F Continuous Flex Control Cables

Rated for up to 20 million rolling flex cycles

#### Series M Control Cable

Excellent mechanical and electrical performance for stationary cable trays

#### Series P Enhanced Stationary Control Cable

Superior oil and chemical resistance plus easier routing and installation

#### Series SF Servo Control Cable

Maximum flexibility in servo control and power

#### Series V VFD Cables

Double-shielded for superior EMI performance

#### Series XM Flexible Control Cable

Tough PVC Cable for continuous flex control applications

### Applications

- **Medium-to high-flex equipment**
- **Factory equipment interconnects**
- **Robotics**
- **Machine tools**
- **Automotive assembly equipment**
- **Conveyor systems**
- **Control panels**
- **Transfer shuttles**
- **Solar farms**
- **Automated pick-and-place systems**
- **PLC controlled equipment**
- **Automated handling systems**
- **Control/monitoring of speed and position**



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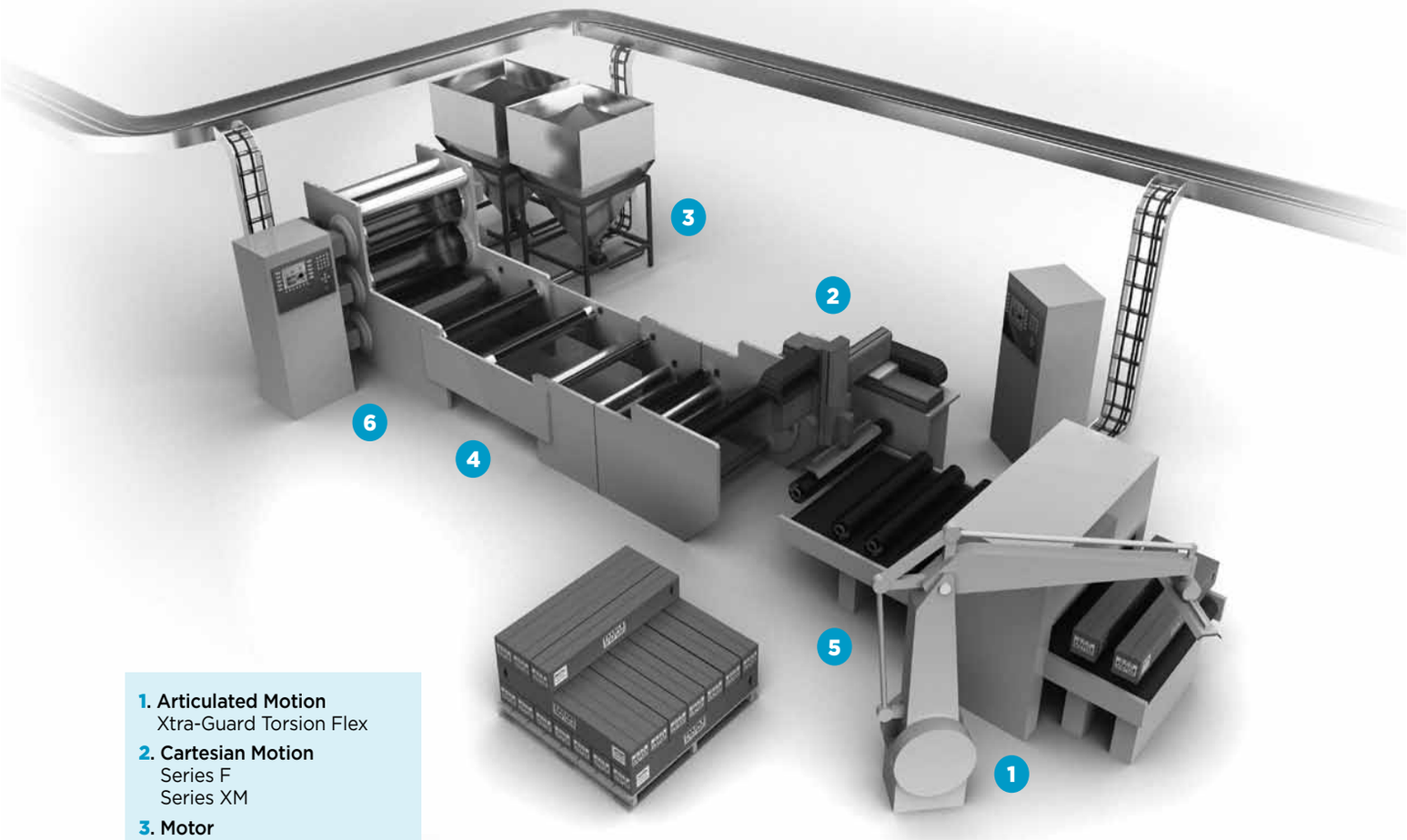
# Reliable productivity from the factory floor to process controls




1. **Articulated Motion**
   Xtra-Guard Torsion Flex
2. **Cartesian Motion**
   Series F
   Series XM
3. **Motor**
   Flexible Motor Supply
4. **Static Control Cabling**
   Series M
   Series P
5. **Servomotors**
   Series SF
6. **VFD**
   Series V

**Alpha Wire's industrial cables are well suited to the widest range of industrial applications from the factory floor to process controls to wind turbines. We offer a range of cables for general needs such as control wiring in both stationary and moving components. We also offer application-specific configurations for use with motors, drives, and servo systems.**

| General Application | Cable | Advantages |
|---|---|---|
| Stationary | Series M | PVC jacket<br>Oil resistant (Oil Res. I) |
| Stationary/ Minimal Flex | Series P | TPE jacket<br>Improved oil and chemical resistance (Oil Res. I/II) |
| Moderate Flexing | Xtra-Guard Standard Flex (65000 Series) | 1 million flex cycles<br>PVC jacket |
| High Flexing | Series XM | 12 million flex cycles<br>Oil resistant (Oil Res. I) |
| | Series F | 20 million flex cycles<br>Improved oil and chemical resistance (Oil Res. I/II) |
| | Xtra-Guard Continuous Flex Data (86000 Series) | 6 million flex cycles<br>PVC jacket |
| | Xtra-Guard Continuous Flex Control (85000 Series) | 14 million flex cycles<br>PVC jacket |
| | Xtra-Guard Torsional Flex (87000 Series) | 1 million flex cycles<br>TPE insulation, polyurethane jacket |
| Servomotors/ Drives | Series SF | TPE jacket<br>Enhanced flexibility for easy installation and routing<br>Improved oil and chemical resistance (Oil Res. I/II)<br>With or without brake/ground pairs |
| VFD Systems | Series V | Oil resistant (Oil Res. I)<br>Low capacitance for extended runs<br>XLPE insulation for improved dielectric properties<br>Excellent corona resistance<br>Uniform geometry for reduced common-mode current |
| Motor Supply | Flexible Motor Supply | PVC jacket<br>Oil resistant (Oil Res. I)<br>Suited to light-duty flexing and VFD applications |

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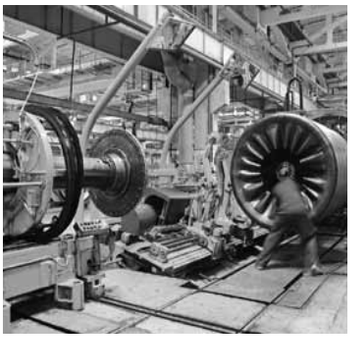
## Superior Cable by Design

Alpha industrial cables are designed to perform better, providing consistent, reliable operation. The result is more uptime, fewer errors, and precise operation of equipment. Our cables are designed and built to uncompromising standards so you get consistency and uniformity in every cable.

## Superior Service by Design

Beyond our well-earned reputation for high-quality, premium-grade products, our commitment to service aims to make specifying and getting the cable you need both fast and easy.

- **Global availability**
- **Large in-stock inventory**
- **Flexible ordering, with small and large put-ups available**
- **Fast shipping—usually the same day**
- **1500 distributor locations worldwide**
- **Engineering support**
- **Extensive on-line tools to select and specify cable**
- **Custom designs with on-line Cable Design Center™**
- **Fast turnarounds on custom designs**



| Specific Application | Connection | Alpha Cable |
|---|---|---|
| Stationary | Control panel to machine | Series M, Series P |
| Cartesian Robots | Source power | Series M, Series P |
| | Flex track | Series XM, Series F, XG Flex 85000, Series SF |
| | Tool mechanism | XG Flex 8700 0Series |
| Transfer Shuttles | Source power | Series M, Series P |
| | Flex track | Series XM, Series F, XG Flex 85000, Series SF |
| | Robot | XG Flex 87000 Series for end of arm tool |
| | Servomotor | Series SF |
| Gantry | Source power | Series M, Series P |
| | Track | Series XM, Series F, XG Flex 85000, Series SF |
| | Robot | XG Flex 87000 Series for end of arm tool |
| | Servomotor | Series SF |
| Pick and Place | Source power | XG Flex 87000 Series for end of arm tool |
| | Flex track | Series XM, Series F, XG Flex 85000 Series |
| | Servomotor | Series SF |
| | End of arm tool | XG Flex 87000 Series |
| Machine Tools | Source power | Series M, Series P |
| | Internal XYZ axis | Series XM, Series F, XG Flex 85000, SF Series |
| | Automated tool changer | Series XM, Series F, XG Flex 85000/86000 Series |
| | Servomotor | Series SF |
| | Drive systems | Series V VFD |
| Conveying Systems | Source power | Series M, Series P, XG Flex 65000 |
| | Drive systems | Series V VFD |
| | Servomotor | Series SF |
| | Motor supply | Flexible Motor Supply |
| Packaging/ Material Handling | Source power | Series M, Series P |
| | Drives | Series V VFD |
| | Servomotor | Series SF |
| | Motor power/control | Motor Supply, Series M, Series P |



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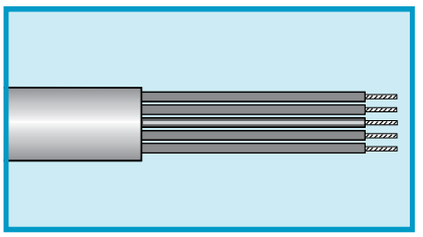
# Series F Continuous Flex Control Cables

## High-Flex Cable Track Applications
## 600 V Unshielded, Multiconductor



**UL TC-ER, PLTC**
**UL TFFN (18 – 16 AWG)**
**UL THHN (14 – 8 AWG)**
**CSA AWM I/II A/B FT4**
**CE LVD 73/23/EEC Amend. 93/68/EEC**

### Operating Temperature

- -25°C to +90°C (static)
- -5°C to +90°C (dynamic)

### Conductor Color Coding

- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor
  1 white-striped neutral
  (12 conductors or greater)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black oil-resistant thermoplastic elastomer jacket

### Features

- UL Sunlight Resistant
- UL Oil Res. I/II
- 10x bend radius
- Over 20 million rolling flex cycles
- Tic-tock and twist test per MIL-C-13777G
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-600: Highly flexible, cross-linked elastomer
- FIT-650: Chemical- and temperature-resistant fluoroelastomer

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

**18 AWG (0.83 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| F18003KW | F18003LW | F18003RW | 3 | 0.308 | 7.82 | 0.050 | 1.27 |
| F18004KW | F18004LW | F18004RW | 4 | 0.333 | 8.46 | 0.050 | 1.27 |
| F18005KW | F18005LW | F18005RW | 5 | 0.360 | 9.14 | 0.050 | 1.27 |
| F18007KW | F18007LW | F18007RW | 7 | 0.418 | 10.62 | 0.050 | 1.27 |
| F18012KW | F18012LW | F18012RW | 12 | 0.515 | 13.08 | 0.065 | 1.65 |
| F18017KW | F18017LW | F18017RW | 17 | 0.597 | 15.16 | 0.065 | 1.65 |
| F18022KW | F18022LW | F18022RW | 22 | 0.656 | 16.66 | 0.065 | 1.65 |
| F18025KW | F18025LW | F18025RW | 25 | 0.717 | 18.21 | 0.065 | 1.65 |
| F18034KW | F18034LW | F18034RW | 34 | 0.775 | 19.69 | 0.065 | 1.65 |
| F18042KW | F18042LW | F18042RW | 42 | 0.874 | 22.20 | 0.085 | 2.16 |
| F18049KW | F18049LW | F18049RW | 49 | 0.965 | 24.51 | 0.085 | 2.16 |
| F18065KW | F18065LW | F18065RW | 65 | 1.052 | 26.72 | 0.085 | 2.16 |

**16 AWG (1.31 mm²)**

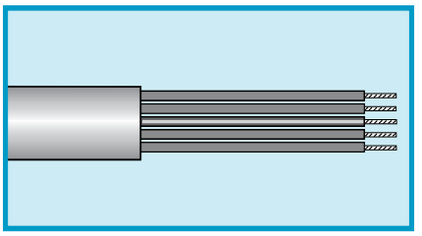
Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| F16003KW | F16003LW | F16003RW | 3 | 0.334 | 8.48 | 0.050 | 1.27 |
| F16004KW | F16004LW | F16004RW | 4 | 0.362 | 9.19 | 0.050 | 1.27 |
| F16005KW | F16005LW | F16005RW | 5 | 0.393 | 9.98 | 0.050 | 1.27 |
| F16007KW | F16007LW | F16007RW | 7 | 0.489 | 12.42 | 0.065 | 1.65 |
| F16012KW | F16012LW | F16012RW | 12 | 0.565 | 14.35 | 0.065 | 1.65 |
| F16017KW | F16017LW | F16017RW | 17 | 0.657 | 16.69 | 0.065 | 1.65 |
| F16019KW | F16019LW | F16019RW | 19 | 0.691 | 17.55 | 0.065 | 1.65 |
| F16022KW | F16022LW | F16022RW | 22 | 0.724 | 18.39 | 0.065 | 1.65 |
| F16025KW | F16025LW | F16025RW | 25 | 0.793 | 20.14 | 0.065 | 1.65 |
| F16033KW | F16033LW | F16033RW | 33 | 0.899 | 22.83 | 0.085 | 2.16 |
| F16042KW | F16042LW | F16042RW | 42 | 0.966 | 24.54 | 0.085 | 2.16 |
| F16049KW | F16049LW | F16049RW | 49 | 1.069 | 27.15 | 0.085 | 2.16 |
| F16065KW | F16065LW | F16065RW | 65 | 1.168 | 29.67 | 0.085 | 2.16 |

UL LISTED CSA CE RoHS Compliant

# Series F Continuous Flex Control Cables

## High-Flex Cable Track Applications
## 600 V Unshielded, Multiconductor



**UL TC-ER, PLTC**
**UL TFFN (18 – 16 AWG)**
**UL THHN (14 – 8 AWG)**
**CSA AWM I/II A/B FT4**
**CE LVD 73/23/EEC Amend. 93/68/EEC**

### Operating Temperature

- -25°C to +90°C (static)
- -5°C to +90°C (dynamic)

### Conductor Color Coding

- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor
  1 white-striped neutral
  (12 conductors or greater, except 14 AWG)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black oil-resistant thermoplastic elastomer jacket

### Features

- UL Sunlight Resistant
- UL Oil Res. I/II
- 10x bend radius
- Over 20 million rolling flex cycles
- Tic-tock and twist test per MIL-C-13777G
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-600: Highly flexible, cross-linked elastomer
- FIT-650: Chemical- and temperature-resistant fluoroelastomer

### 14 AWG (2.11 mm²)

Stranding: 105/34 (105 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| F14004KW | F14004LW | F14004RW | 4 | 0.398 | 10.11 | 0.050 | 1.27 |
| F14005KW | F14005LW | F14005RW | 5 | 0.434 | 11.02 | 0.050 | 1.27 |
| F14007KW | F14007LW | F14007RW | 7 | 0.539 | 13.69 | 0.065 | 1.65 |
| F14012KW | F14012LW | F14012RW | 12 | 0.628 | 15.95 | 0.065 | 1.65 |

### 12 AWG (3.38 mm²)

Stranding: 168/34 (168 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| F12004KW | F12004LW | F12004RW | 4 | 0.501 | 12.73 | 0.065 | 1.65 |
| F12005KW | F12005LW | F12005RW | 5 | 0.545 | 13.84 | 0.065 | 1.65 |
| F12007KW | F12007LW | F12007RW | 7 | 0.640 | 16.26 | 0.065 | 1.65 |

### 10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| F10004KW | F10004LW | F10004RW | 4 | 0.565 | 14.35 | 0.065 | 1.65 |
| F10005KW | F10005LW | F10005RW | 5 | 0.618 | 15.70 | 0.065 | 1.65 |
| F10007KW | F10007LW | F10007RW | 7 | 0.729 | 18.52 | 0.065 | 1.65 |

### 8 AWG (8.51 mm²)

Stranding: 168/30 (168 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| F08004KW | F08004LW | F08004RW | 4 | 0.740 | 18.80 | 0.065 | 1.65 |

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage



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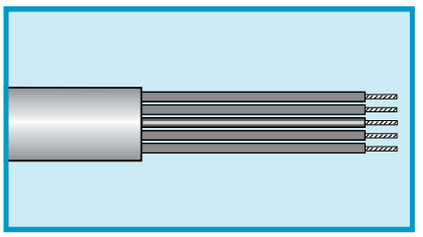
# Series M Control Cable

## Stationary or Minimal Flex Applications
## 600 V Unshielded, Multiconductor



**UL TC-ER**
**UL MTW**
**UL WTTC (1000 V)**
**UL PLTC (300 V)**
**CSA AWM I/II A/B FT4**
**CE LVD 73/23/EEC Amend. 93/68/EEC**

### Operating Temperature

- -25°C to +90°C (static)
- -5°C to +90°C (dynamic)

### Conductor Color Coding

- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor
  1 white-striped neutral
  (12 conductors or greater)

### Materials

- Finely stranded bare copper conductors
- PVC/nylon insulation
- Slate PVC jacket

### Features

- UL Sunlight Resistant
- UL Oil Res. I
- UL Direct Burial
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code
- 90°C Dry/75°C Wet

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined cross-linked polyolefin

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| M18103KW | M18103LW | M18103RW | 3 | 0.301 | 7.65 | 0.050 | 1.27 |
| M18104KW | M18104LW | M18104RW | 4 | 0.326 | 8.28 | 0.050 | 1.27 |
| M18105KW | M18105LW | M18105RW | 5 | 0.353 | 8.97 | 0.050 | 1.27 |
| M18107KW | M18107LW | M18107RW | 7 | 0.381 | 9.68 | 0.050 | 1.27 |
| M18112KW | M18112LW | M18112RW | 12 | 0.515 | 13.08 | 0.065 | 1.65 |
| M18117KW | M18117LW | M18117RW | 17 | 0.594 | 15.09 | 0.065 | 1.65 |
| M18122KW | M18122LW | M18122RW | 22 | 0.651 | 16.54 | 0.065 | 1.65 |
| M18125KW | M18125LW | M18125RW | 25 | 0.699 | 17.75 | 0.065 | 1.65 |
| M18134KW | M18134LW | M18134RW | 34 | 0.777 | 19.74 | 0.065 | 1.65 |
| M18142KW | M18142LW | M18142RW | 42 | 0.874 | 22.20 | 0.085 | 2.15 |
| M18149KW | M18149LW | M18149RW | 49 | 0.923 | 23.44 | 0.085 | 2.15 |
| M18165KW | M18165LW | M18165RW | 65 | 1.029 | 26.14 | 0.085 | 2.15 |

**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| M16103KW | M16103LW | M16103RW | 3 | 0.323 | 8.20 | 0.050 | 1.27 |
| M16104KW | M16104LW | M16104RW | 4 | 0.350 | 8.89 | 0.050 | 1.27 |
| M16105KW | M16105LW | M16105RW | 5 | 0.380 | 9.65 | 0.050 | 1.27 |
| M16107KW | M16107LW | M16107RW | 7 | 0.421 | 10.69 | 0.055 | 1.39 |
| M16112KW | M16112LW | M16112RW | 12 | 0.557 | 14.14 | 0.065 | 1.65 |
| M16117KW | M16117LW | M16117RW | 17 | 0.644 | 16.35 | 0.065 | 1.65 |
| M16119KW | M16119LW | M16119RW | 19 | 0.644 | 16.35 | 0.065 | 1.65 |
| M16122KW | M16122LW | M16122RW | 22 | 0.707 | 17.95 | 0.065 | 1.65 |
| M16125KW | M16125LW | M16125RW | 25 | 0.761 | 19.32 | 0.065 | 1.65 |
| M16133KW | M16133LW | M16133RW | 33 | 0.857 | 21.76 | 0.085 | 2.15 |
| M16142KW | M16142LW | M16142RW | 42 | 0.950 | 24.13 | 0.085 | 2.15 |
| M16149KW | M16149LW | M16149RW | 49 | 1.005 | 25.52 | 0.085 | 2.15 |
| M16165KW | M16165LW | M16165RW | 65 | 1.122 | 28.49 | 0.085 | 2.15 |

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

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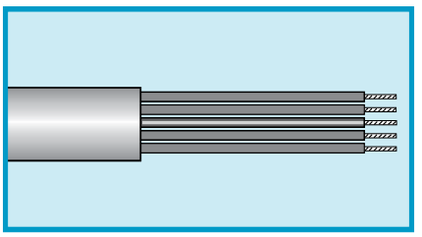
# Series M Control Cable

## Stationary or Minimal Flex Applications
## 600 V Unshielded, Multiconductor



**UL TC-ER**
**UL MTW**
**UL WTTC (1000 V)**
**UL PLTC (300 V)**
**CSA AWM I/II A/B FT4**
**CE LVD 73/23/EEC Amend. 93/68/EEC**

### Operating Temperature

- -25°C to +90°C (static)
- -5°C to +90°C (dynamic)

### Conductor Color Coding

- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor
  1 white-striped neutral
  (12 conductors or greater, except 14 AWG)

### Materials

- Finely stranded bare copper conductors
- PVC/nylon insulation
- Slate PVC jacket

### Features

- UL Sunlight Resistant
- UL Oil Res. I
- UL Direct Burial
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code
- 90°C Dry/75°C Wet

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined cross-linked polyolefin

**14 AWG (2.09 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| M14104KW | M14104LW | M14104RW | 4 | 0.384 | 9.75 | 0.050 | 1.27 |
| M14105KW | M14105KW | M14105RW | 5 | 0.428 | 10.87 | 0.055 | 1.39 |
| M14107KW | M14107LW | M14107RW | 7 | 0.483 | 12.26 | 0.065 | 1.65 |
| M14112KW | M14112LW | M14112RW | 12 | 0.615 | 15.62 | 0.065 | 1.65 |
| M14125KW | M14125LW | M14125RW | 25 | 0.887 | 22.52 | 0.085 | 2.15 |

**12 AWG (3.31 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| M12104KW | M12104LW | M12104RW | 4 | 0.44 | 11.17 | 0.055 | 1.39 |
| M12105KW | M12105LW | M12105RW | 5 | 0.499 | 12.67 | 0.065 | 1.65 |
| M12107KW | M12107LW | M12107RW | 7 | 0.540 | 13.71 | 0.065 | 1.65 |

**10 AWG (5.32 mm²)**

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| M10104KW | M10104LW | M10104RW | 4 | 0.549 | 13.94 | 0.065 | 1.65 |
| M10105KW | M10105LW | M10105RW | 5 | 0.600 | 15.24 | 0.065 | 1.65 |
| M10107KW | M10107LW | M10107RW | 7 | 0.652 | 16.56 | 0.065 | 1.65 |

**8 AWG (8.52 mm²)**

Stranding: 168/30 (168 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| M08104KW | M08104LW | M08104RW | 4 | 0.724 | 18.38 | 0.065 | 1.65 |
| M08105KW | M08105LW | M08105RW | 5 | 0.795 | 20.19 | 0.065 | 1.65 |

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage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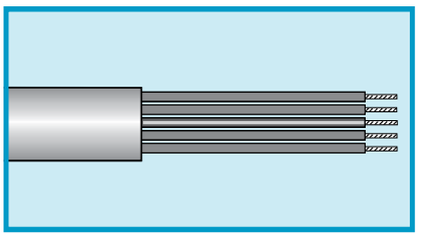
# Series P Enhanced Stationary Control Cable

## Stationary or Minimal Flex Applications
## 600 V Unshielded, Multiconductor



**UL TC-ER, PLTC**
**UL TFFN (18 – 16 AWG)**
**UL THHN (14 – 8 AWG)**
**CSA AWM I/II A/B FT4**
**CE LVD 73/23/EEC Amend. 93/68/EEC**

### Operating Temperature
- -25°C to +90°C

### Voltage Rating
- 600 V (TC-ER)
- 300 V (PLTC)

### Conductor Color Coding
- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor
  1 white-striped neutral
  (12 conductors or greater)

### Materials
- Stranded bare copper conductors
- PVC/nylon insulation
- Oil-resistant thermoplastic elastomer jacket

### Features
- UL Sunlight Resistant
- UL Oil Res. I/II
- 10x bend radius, static and dynamic
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability
Bulk, cut to length

### FIT® Tubing Recommendations
- FIT-600: Highly flexible cross-linked elastomer
- FIT-650: Chemical/temperature-resistant cross-linked fluoroelastomer

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.010 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| MP18103KW | MP18103LW | MP18103RW | 3 | 0.313 | 7.95 | 0.050 | 1.27 |
| MP18104KW | MP18104LW | MP18104LW | 4 | 0.338 | 8.58 | 0.050 | 1.27 |
| MP18105KW | MP18105LW | MP18105RW | 5 | 0.365 | 9.27 | 0.050 | 1.27 |
| MP18107KW | MP18107LW | MP18107RW | 7 | 0.393 | 9.98 | 0.050 | 1.27 |
| MP18112KW | MP18112LW | MP18112RW | 12 | 0.527 | 13.39 | 0.065 | 1.65 |
| MP18117KW | MP18117LW | MP18117RW | 17 | 0.606 | 15.39 | 0.065 | 1.65 |
| MP18122KW | MP18122LW | MP18122RW | 22 | 0.663 | 16.84 | 0.065 | 1.65 |
| MP18125KW | MP18125LW | MP18125RW | 25 | 0.711 | 18.06 | 0.065 | 1.65 |
| MP18134KW | MP18134LW | MP18134RW | 34 | 0.789 | 20.04 | 0.065 | 1.65 |
| MP18142KW | MP18142LW | MP18142RW | 42 | 0.886 | 22.50 | 0.085 | 2.16 |
| MP18149KW | MP18149LW | MP18149RW | 49 | 0.935 | 23.75 | 0.085 | 2.16 |
| MP18165KW | MP18165LW | MP18165RW | 65 | 1.041 | 26.44 | 0.085 | 2.16 |

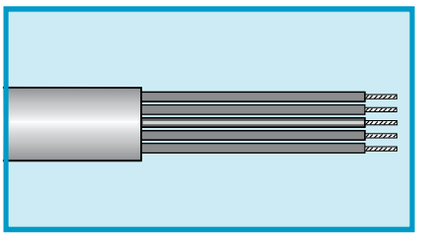
**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41mm) PVC/0.005 (0.010 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| MP16103KW | MP16103LW | MP16103RW | 3 | 0.335 | 8.51 | 0.050 | 1.27 |
| MP16104KW | MP16104LW | MP16104RW | 4 | 0.362 | 9.19 | 0.050 | 1.27 |
| MP16105KW | MP16105LW | MP16105RW | 5 | 0.392 | 9.96 | 0.050 | 1.27 |
| MP16107KW | MP16107LW | MP16107RW | 7 | 0.423 | 10.74 | 0.050 | 1.27 |
| MP16112KW | MP16112LW | MP16112RW | 12 | 0.569 | 14.45 | 0.065 | 1.65 |
| MP16117KW | MP16117LW | MP16117RW | 17 | 0.656 | 16.66 | 0.065 | 1.65 |
| MP16122KW | MP16122LW | MP16122RW | 22 | 0.719 | 18.26 | 0.065 | 1.65 |
| MP16125KW | MP16125LW | MP16125RW | 25 | 0.773 | 19.63 | 0.065 | 1.65 |
| MP16133KW | MP16133LW | MP16133RW | 33 | 0.869 | 22.07 | 0.085 | 2.16 |
| MP16142KW | MP16142LW | MP16142RW | 42 | 0.962 | 24.43 | 0.085 | 2.16 |
| MP16149KW | MP16149LW | MP16149RW | 49 | 1.017 | 25.83 | 0.085 | 2.16 |
| MP16165KW | MP16165LW | MP16165RW | 65 | 1.134 | 28.80 | 0.085 | 2.16 |

# Series P Enhanced Stationary Control Cable

## Stationary or Minimal Flex Applications
## 600 V Unshielded, Multiconductor



**UL TC-ER, PLTC**
**UL TFFN (18 – 16 AWG)**
**UL THHN (14 – 8 AWG)**
**CSA AWM I/II A/B FT4**
**CE LVD 73/23/EEC Amend. 93/68/EEC**

### Operating Temperature
- -25°C to +90°C

### Voltage Rating
- 600 V (TC-ER)
- 300 V (PLTC)

### Conductor Color Coding
- Red, blue, or black insulation*, numbered
  1 green/yellow green conductor
  1 white-striped neutral
  (12 conductors or greater)

### Materials
- Stranded bare copper conductors
- PVC/nylon insulation
- Oil-resistant thermoplastic elastomer jacket

### Features
- UL Sunlight Resistant
- UL Oil Res. I/II
- 10x bend radius, static and dynamic
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability
Bulk, cut to length

### FIT® Tubing Recommendations
- FIT-600: Highly flexible cross-linked elastomer
- FIT-650: Chemical/temperature-resistant cross-linked fluoroelastomer

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

### 14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.010 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| MP14104KW | MP14104LW | MP14104RW | 4 | 0.396 | 10.06 | 0.050 | 1.27 |
| MP14105KW | MP14105LW | MP14105RW | 5 | 0.430 | 10.92 | 0.050 | 1.27 |
| MP14107KW | MP14107LW | MP14107RW | 7 | 0.495 | 12.57 | 0.065 | 1.65 |
| MP14112KW | MP14112LW | MP14112RW | 12 | 0.627 | 15.93 | 0.065 | 1.65 |
| MP14125KW | MP14125LW | MP14125RW | 25 | 0.899 | 22.83 | 0.085 | 2.16 |

### 12 AWG (3.31 mm²)

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.010 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| MP12104KW | MP12104LW | MP12104RW | 4 | 0.472 | 11.99 | 0.065 | 1.65 |
| MP12105KW | MP12105LW | MP12105RW | 5 | 0.511 | 12.98 | 0.065 | 1.65 |
| MP12107KW | MP12107LW | MP12107RW | 7 | 0.552 | 14.02 | 0.065 | 1.65 |

### 10 AWG (5.32 mm²)

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.010 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| MP10104KW | MP10104LW | MP10104RW | 4 | 0.561 | 14.25 | 0.065 | 1.65 |
| MP10105KW | MP10105LW | MP10105RW | 5 | 0.612 | 15.54 | 0.065 | 1.65 |
| MP10107KW | MP10107LW | MP10107RW | 7 | 0.664 | 16.87 | 0.065 | 1.65 |

### 8 AWG (8.52 mm²)

Stranding: 168/30 (105 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.005 (0.010 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Black Insul. | Blue Insul. | Red Insul. | | Inch | mm | Inch | mm |
| MP08104KW | MP08104LW | MP08104RW | 4 | 0.736 | 18.69 | 0.065 | 1.65 |
| MP08105KW | MP08105LW | MP08105RW | 5 | 0.807 | 20.50 | 0.065 | 1.65 |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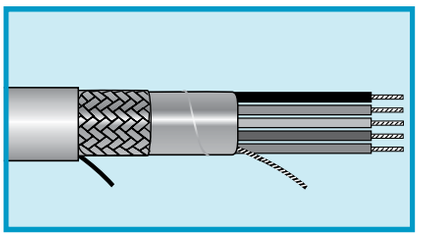
# Series SF Flexible Servo Cable

600/1000 V, PVC/Nylon, TPE



**UL TC-ER (600 V)**
**UL WTTC (1000 V)**
**CSA AWM I/II A/B FT4**

## Operating Temperature

- -25°C to +90°C (static)
- -5°C to +90°C (dynamic)

## Conductor Color Coding

- Chart KX (page 534) for multiconductor
- Chart A (page 528) for pairs

## Materials

- Stranded tinned copper conductors
- PVC/nylon insulation
- Foil + braid shielding Aluminum/polyester foil Tinned copper braid, 85% coverage
- Orange thermoplastic elastomer jacket

## Features

- UL Sunlight Resistant
- UL Oil Res. I/II
- 10x bend radius
- Two configurations
  1. Power cable
  2. Composite cable for power and control
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

## Availability

Bulk, cut to length

## FIT® Tubing Recommendations

- FIT-600: Highly flexible cross-linked elastomer
- FIT-650: Chemical/temperature-resistant cross-linked fluoroelastomer

**Flexible Power Servo Cable**

4 conductors for power/ground

| Part No. | Conductors | Wire Size | | Stranding | | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **SF61118CY** | 4 | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.382 | 9.70 | 0.055 | 1.40 |
| **SF61116CY** | 4 | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.406 | 10.31 | 0.055 | 1.40 |
| **SF61114CY** | 4 | 14 | 2.09 | 41/30 | 41 x 0.25 | 0.440 | 11.18 | 0.055 | 1.40 |
| **SF61112CY** | 4 | 12 | 3.31 | 65/30 | 65 x 0.25 | 0.506 | 12.85 | 0.065 | 1.65 |
| **SF61110CY** | 4 | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.603 | 15.32 | 0.065 | 1.65 |
| **SF61108CY** | 4 | 8 | 8.50 | 168/30 | 168 x 0.25 | 0.785 | 19.94 | 0.065 | 1.65 |

**Flexible Composite Servo Cable**

4 conductors for power/ground +2 individually shielded pairs for brake or temperature control

| Part No. | Conductors | Wire Size | | Stranding | | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **SF61220CY** | 4 +2 pairs | 16 pwr<br>18 pr | 1.32<br>0.96 | 26/30<br>19/30 | 26 x 0.25<br>19 x 0.25 | 0.590 | 14.99 | 0.065 | 1.65 |
| **SF61221CY** | 4 +2 pairs | 14 pwr<br>18 pr | 2.09<br>0.96 | 41/30<br>19/30 | 41 x 0.25<br>19 x 0.25 | 0.618 | 15.70 | 0.065 | 1.65 |
| **SF61222CY** | 4 +2 pairs | 12 pwr<br>16 pr | 3.31<br>1.32 | 65/30<br>26/30 | 65 x 0.25<br>26 x 0.25 | 0.674 | 17.12 | 0.065 | 1.65 |
| **SF61223CY** | 4 +2 pairs | 10 pwr<br>16 pr | 5.37<br>1.32 | 105/30<br>26/30 | 105 x 0.25<br>26 x 0.25 | 0.757 | 19.23 | 0.065 | 1.65 |
| **SF61224CY** | 4 +2 pairs | 8 pwr<br>16 pr | 8.50<br>1.32 | 168/30<br>26/30 | 168 x 0.25<br>26 x 0.25 | 0.943 | 23.95 | 0.085 | 2.16 |

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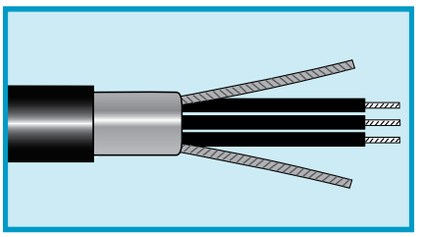
# Series V VFD Control Cables

## Enhanced Design for Superior Performance in Variable-Frequency Drives 600/1000 V Shielded



Series V cables for variable-frequency drives (VFD) set the standard in high-performance and reliable connectivity. Their specially formulated cross-linked polyethylene insulation provides superior corona resistance, low capacitance for longer runs, and excellent low-temperature properties.

A symmetrical design places the ground wires in the interstices of the conductors for uniform conductor-to-ground capacitance and impedance.

Smaller gauge cable feature a combination foil/braid shield to offer exceptional EMI/RFI protection in noisy environments. On larger gauge cable, a double copper tape is used to provide the same noise-free operation.

This uniformity reduces the probability of motor damage from common-mode current.

Alpha Series V VFD cables are compatible with drives from all major manufacturers.

**UL RHW-2 (16 – 2 AWG)**
**UL XHHW-2**
**UL TC-ER**
**UL 1000V Flexible Motor Supply Cable**
**CSA AWM I/II A/B FT4**
**CE LVD 73/23/EEC Amendment 93/68/EEC**
**Pennsylvania MHSA**

### Operating Temperature

- -40°C to +90°C

### Conductor Color Coding

- Black, numbered

### Materials

- Stranded tinned copper conductors
- Stranded tinned copper ground wires
- Cross-linked polyethylene insulation
- Shielding
  16 – 4 AWG:
  Aluminum/polyester/aluminum foil and tinned copper braid with 85% coverage
  2 – 4/0 AWG:
  Double-layer copper tape
- Black premium PVC jacket

### Voltage

- 600 V (UL TC-ER)
- 1000 V (UL Motor Supply)

### Features

- UL Direct Burial
- UL Sunlight Resistant
- 10x bend radius
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability

Bulk, made to order

### FIT® Tubing Recommendations

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321V: Low-shrink-temperature, flame-retardant cross-linked polyolefin

**Three-Conductor VFD Cables**

| Part No. | Wire Size | | Stranding | | Shielding | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | | Inch | mm | Inch | mm | Inch | mm |
| **V16316** | 16 | 1.32 | 26/30 | 26 x 0.25 | Foil/Braid | 0.046 | 1.17 | 0.050 | 1.27 | 0.468 | 11.89 |
| **V16314** | 14 | 2.09 | 41/30 | 41 x 0.25 | Foil/Braid | 0.046 | 1.17 | 0.065 | 1.65 | 0.538 | 13.67 |
| **V16312** | 12 | 3.31 | 65/30 | 65 x 0.25 | Foil/Braid | 0.046 | 1.17 | 0.065 | 1.65 | 0.578 | 14.68 |
| **V16310** | 10 | 5.37 | 105/30 | 105 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.065 | 1.65 | 0.642 | 16.31 |
| **V16308** | 8 | 8.53 | 133/29 | 133 x 0.28 | Foil/Braid | 0.061 | 1.55 | 0.065 | 1.65 | 0.798 | 20.27 |
| **V16306** | 6 | 13.57 | 133/27 | 133 x 0.36 | Foil/Braid | 0.061 | 1.55 | 0.085 | 2.15 | 0.924 | 23.47 |
| **V16304** | 4 | 21.58 | 133/25 | 133 x 0.45 | Foil/Braid | 0.061 | 1.55 | 0.085 | 2.15 | 1.050 | 26.67 |
| **V16302** | 2 | 34.32 | 133/23 | 133 x 0.57 | Tape | 0.061 | 1.55 | 0.085 | 2.15 | 1.157 | 29.39 |
| **V16001** | 1 | 43.28 | 133/22 | 133 x 0.64 | Tape | 0.056 | 1.42 | 0.085 | 2.15 | 1.197 | 30.48 |
| **V16000** | 1/0 | 54.58 | 133/21 | 133 x 0.72 | Tape | 0.056 | 1.42 | 0.085 | 2.15 | 1.294 | 32.77 |
| **V16020** | 2/0 | 68.85 | 133/20 | 133 x 0.81 | Tape | 0.056 | 1.42 | 0.085 | 2.15 | 1.399 | 35.56 |
| **V16030** | 3/0 | 86.9 | 133/19 | 133 x 0.91 | Tape | 0.056 | 1.42 | 0.085 | 2.15 | 1.517 | 38.53 |
| **V16040** | 4/0 | 109 | 133/18 | 133 x 1.02 | Tape | 0.056 | 1.42 | 0.085 | 2.15 | 1.653 | 41.98 |



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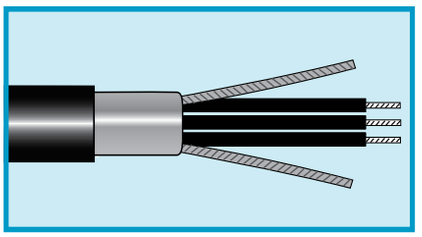
# Series V VFD Control Cables

## Enhanced Design for Superior Performance in Variable-Frequency Drives 600/1000 V Shielded



Series V cables for variable-frequency drives (VFD) set the standard in high-performance and reliable connectivity. Their specially formulated cross-linked polyethylene insulation provides superior corona resistance, low capacitance for longer runs, and excellent low-temperature properties.

A symmetrical design places the ground wires in the interstices of the conductors for uniform conductor-to-ground capacitance and impedance.

Smaller gauge cable feature a combination foil/braid shield to offer exceptional EMI/RFI protection in noisy environments. On larger gauge cable, a double copper tape is used to provide the same noise-free operation.

This uniformity reduces the probability of motor damage from common-mode current.

Alpha Series V VFD cables are compatible with drives from all major manufacturers.

**UL RHW-2 (16 – 2 AWG)**
**UL XHHW-2**
**UL TC-ER**
**UL 1000V Flexible Motor Supply Cable**
**CSA AWM I/II A/B FT4**
**CE LVD 73/23/EEC Amendment 93/68/EEC**
**Pennsylvania MHSA**

### Operating Temperature

- -40°C to +90°C

### Conductor Color Coding

- Black, numbered

### Materials

- Stranded tinned copper conductors
- Stranded tinned copper ground wires
- Cross-linked polyethylene insulation
- Shielding
  16 – 4 AWG:
  Aluminum/polyester/aluminum foil and tinned copper braid with 85% coverage
  2 – 4/0 AWG:
  Double-layer copper tape
- Black premium PVC jacket

### Voltage

- 600 V (UL TC-ER)
- 1000 V (UL Motor Supply)

### Features

- UL Direct Burial
- UL Sunlight Resistant
- 10x bend radius
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability

Bulk, made to order

### FIT® Tubing Recommendations

- FIT-221: General-purpose cross-linked polyolefin
- FIT-321V: Low-shrink-temperature, flame-retardant cross-linked polyolefin

**Four-Conductor VFD Cable**

| Part No. | Wire Size | | Stranding | | Shielding | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | | Inch | mm | Inch | mm | Inch | mm |
| **V16016** | 16 | 1.32 | 26/30 | 26 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.065 | 1.65 | 0.547 | 13.89 |
| **V16014** | 14 | 2.09 | 41/30 | 41 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.065 | 1.65 | 0.584 | 14.83 |
| **V16012** | 12 | 3.31 | 65/30 | 65 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.065 | 1.65 | 0.633 | 16.08 |
| **V16010** | 10 | 5.37 | 105/30 | 105 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.085 | 2.15 | 0.746 | 18.95 |
| **V16008** | 8 | 8.53 | 133/29 | 133 x 0.28 | Foil/Braid | 0.061 | 1.55 | 0.086 | 2.15 | 0.920 | 23.37 |
| **V16006** | 6 | 13.57 | 133/27 | 133 x 0.36 | Foil/Braid | 0.061 | 1.55 | 0.086 | 2.15 | 1.017 | 25.83 |
| **V16004** | 4 | 21.58 | 133/25 | 133 x 0.45 | Foil/Braid | 0.061 | 1.55 | 0.086 | 2.15 | 1.157 | 29.39 |
| **V16002** | 2 | 34.32 | 133/23 | 133 x 0.57 | Foil/Braid | 0.061 | 1.55 | 0.088 | 2.15 | 1.308 | 33.22 |

**Four-Conductor VFD Cable with 14 AWG (2.09) Brake Pair**

| Part No. | Wire Size | | Stranding | | Shielding | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | | Inch | mm | Inch | mm | Inch | mm |
| **V16116** | 16 | 1.32 | 26/30 | 26 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.065 | 1.65 | 0.717 | 18.21 |
| **V16114** | 14 | 2.09 | 41/30 | 41 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.065 | 1.65 | 0.743 | 18.87 |
| **V16112** | 12 | 3.31 | 65/30 | 65 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.065 | 1.65 | 0.785 | 19.94 |
| **V16110** | 10 | 5.37 | 105/30 | 105 x 0.25 | Foil/Braid | 0.047 | 1.19 | 0.085 | 2.15 | 0.875 | 22.23 |
| **V16108** | 8 | 8.53 | 133/29 | 133 x 0.28 | Foil/Braid | 0.061 | 1.55 | 0.085 | 2.15 | 1.032 | 26.21 |

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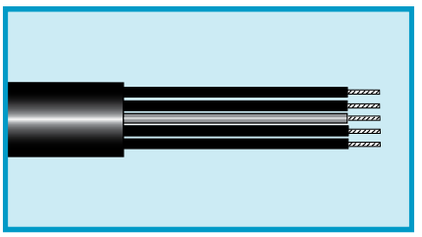
# Series XM Flexible Control Cable

## 600/1000 V Unshielded, PVC/Nylon, PVC



Series XM Flexible Control Cable is the ideal choice for medium-to-high-flex applications. Featuring a premium-grade PVC jacket, Series XM offers a durable, oil-resistant construction that prevents contamination from hazardous fluids and protects against abrasion. Plus, its optimum flexibility and performance allows it to support a variety of industrial applications.

**UL TC-ER (600 V)**
**UL WTTC (1000 V)**
**UL MTW (600 V)**
**CSA AWM I/II A/B FT4**
**CE compliant**

### Operating Temperature

-30°C to +90°C (static)
-5°C to +90°C (dynamic)

### Conductor Color Coding

- Chart KW, RW, LW (pages 533-535)
- Black, blue, or red* numbered conductors with one green/yellow ground conductor

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

### Features

- UL Oil Res. I
- UL Sunlight Resistant
- Suitable for NFPA 79 application

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-600: Highly flexible cross-linked elastomer
- FIT-650: Chemical- and temperature-resistant fluoroelastomer

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

**18 AWG (0.83 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1803R | XM1803L | XM1803K | 3 | 0.308 | 7.82 | 0.050 | 1.27 |
| XM1804R | XM1804L | XM1804K | 4 | 0.333 | 8.46 | 0.050 | 1.27 |
| XM1805R | XM1805L | XM1805K | 5 | 0.360 | 9.14 | 0.050 | 1.27 |
| XM1807R | XM1807L | XM1807K | 7 | 0.418 | 10.62 | 0.050 | 1.27 |
| XM1812R | XM1812L | XM1812K | 12 | 0.485 | 12.32 | 0.050 | 1.27 |
| XM1817R | XM1817L | XM1817K | 17 | 0.597 | 15.16 | 0.065 | 1.65 |
| XM1822R | XM1822L | XM1822K | 22 | 0.656 | 16.66 | 0.065 | 1.65 |
| XM1825R | XM1825L | XM1825K | 25 | 0.717 | 18.21 | 0.065 | 1.65 |
| XM1834R | XM1834L | XM1834K | 34 | 0.775 | 19.69 | 0.065 | 1.65 |
| XM1842R | XM1842L | XM1842K | 42 | 0.874 | 22.20 | 0.085 | 2.16 |
| XM1849R | XM1849L | XM1849K | 49 | 0.965 | 24.51 | 0.085 | 2.16 |
| XM1865R | XM1865L | XM1865K | 65 | 1.052 | 26.72 | 0.085 | 2.16 |

**16 AWG (1.31 mm²)**

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1603R | XM1603L | XM1603K | 3 | 0.334 | 8.48 | 0.050 | 1.27 |
| XM1604R | XM1604L | XM1604K | 4 | 0.362 | 9.19 | 0.050 | 1.27 |
| XM1605R | XM1605L | XM1605K | 5 | 0.393 | 9.98 | 0.050 | 1.27 |
| XM1607R | XM1607L | XM1607K | 7 | 0.459 | 11.66 | 0.050 | 1.27 |
| XM1612R | XM1612L | XM1612K | 12 | 0.565 | 14.35 | 0.065 | 1.65 |
| XM1617R | XM1617L | XM1617K | 17 | 0.657 | 16.69 | 0.065 | 1.65 |
| XM1619R | XM1619L | XM1619K | 19 | 0.691 | 17.55 | 0.065 | 1.65 |
| XM1622R | XM1622L | XM1622K | 22 | 0.724 | 18.39 | 0.065 | 1.65 |
| XM1625R | XM1625L | XM1625K | 25 | 0.793 | 20.14 | 0.065 | 1.65 |
| XM1633R | XM1633L | XM1633K | 33 | 0.899 | 22.83 | 0.085 | 2.16 |
| XM1642R | XM1642L | XM1642K | 42 | 0.966 | 24.54 | 0.085 | 2.16 |
| XM1649R | XM1649L | XM1649K | 49 | 1.069 | 27.15 | 0.085 | 2.16 |

**14 AWG (2.11 mm²)**

Stranding: 105/34 (105 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1403R | XM1403L | XM1403K | 3 | 0.366 | 9.30 | 0.050 | 1.27 |
| XM1404R | XM1404L | XM1404K | 4 | 0.398 | 10.11 | 0.050 | 1.27 |
| XM1405R | XM1405L | XM1405K | 5 | 0.464 | 11.79 | 0.065 | 1.65 |
| XM1407R | XM1407L | XM1407K | 7 | 0.539 | 13.69 | 0.065 | 1.65 |
| XM1412R | XM1412L | XM1412K | 12 | 0.627 | 15.93 | 0.065 | 1.65 |

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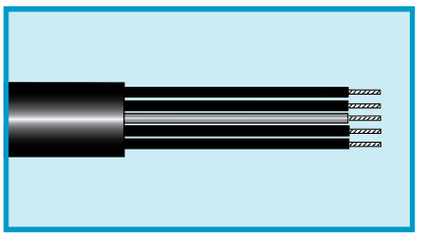
# Series XM Flexible Control Cable

## 600/1000 V Unshielded, PVC/Nylon, PVC



Series XM Flexible Control Cable is the ideal choice for medium-to-high-flex applications. Featuring a premium-grade PVC jacket, Series XM offers a durable, oil-resistant construction that prevents contamination from hazardous fluids and protects against abrasion. Plus, its optimum flexibility and performance allows it to support a variety of industrial applications.

**UL TC-ER (600 V)**
**UL WTTC (1000 V)**
**UL MTW (600 V)**
**CSA AWM I/II A/B FT4**
**CE compliant**

### Operating Temperature

-30°C to +90°C (static)
-5°C to +90°C (dynamic)

### Conductor Color Coding

- Chart KW, RW, LW (pages 533-535)
- Black, blue, or red* numbered conductors with one green/yellow ground conductor

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

### Features

- UL Oil Res. I
- UL Sunlight Resistant
- Suitable for NFPA 79 application

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-600: Highly flexible cross-linked elastomer
- FIT-650: Chemical- and temperature-resistant fluoroelastomer

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

**12 AWG (3.38 mm²)**

Stranding 168/34 (168 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1203R | XM1203L | XM1203K | 3 | 0.431 | 10.95 | 0.050 | 1.27 |
| XM1204R | XM1204L | XM1204K | 4 | 0.501 | 12.73 | 0.065 | 1.65 |
| XM1205R | XM1205L | XM1205K | 5 | 0.545 | 13.84 | 0.065 | 1.65 |
| XM1207R | XM1207L | XM1207K | 7 | 0.640 | 16.26 | 0.065 | 1.65 |

**10 AWG (5.32 mm²)**

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.10 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1003R | XM1003L | XM1003K | 3 | 0.487 | 12.37 | 0.050 | 1.27 |
| XM1004R | XM1004L | XM1004K | 4 | 0.565 | 14.35 | 0.065 | 1.65 |
| XM1005R | XM1005L | XM1005K | 5 | 0.618 | 15.70 | 0.065 | 1.65 |
| XM1007R | XM1007L | XM1007K | 7 | 0.729 | 18.52 | 0.065 | 1.65 |

**8 AWG (8.51 mm²)**

Stranding: 168/30 (168 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM0803R | XM0803L | XM0803K | 3 | 0.671 | 17.04 | 0.065 | 1.65 |
| XM0804R | XM0804L | XM0804K | 4 | 0.737 | 18.72 | 0.065 | 1.65 |

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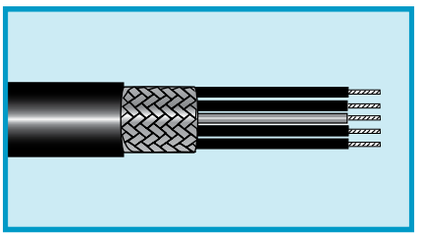
# Series XM Flexible Control Cable

## 600/1000 V Braid Shielded, PVC/Nylon, PVC



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**UL TC-ER (600 V)**
**UL WTTC (1000 V)**
**UL MTW (600 V)**
**CSA AWM I/II A/B FT4**
**CE compliant**

### Operating Temperature

-30°C to +90°C (static)
-5°C to +90°C (dynamic)

### Conductor Color Coding

- Chart KW, RW, LW (pages 533-535)
- Black, blue, or red* numbered conductors with one green/yellow ground conductor

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Tinned copper braid shield, 85% coverage
- Black PVC jacket

### Features

- UL Oil Res. I
- UL Sunlight Resistant
- Suitable for NFPA 79 application

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-600: Highly flexible cross-linked elastomer
- FIT-650: Chemical- and temperature-resistant fluoroelastomer

**18 AWG (0.83 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1803RCY | XM1803LCY | XM1803KCY | 3 | 0.336 | 8.53 | 0.050 | 1.27 |
| XM1804RCY | XM1804LCY | XM1804KCY | 4 | 0.361 | 9.17 | 0.050 | 1.27 |
| XM1805RCY | XM1805LCY | XM1805KCY | 5 | 0.388 | 9.86 | 0.050 | 1.27 |
| XM1807RCY | XM1807LCY | XM1807KCY | 7 | 0.446 | 11.33 | 0.050 | 1.27 |
| XM1812RCY | XM1812LCY | XM1812KCY | 12 | 0.549 | 13.94 | 0.050 | 1.27 |
| XM1817RCY | XM1817LCY | XM1817KCY | 17 | 0.631 | 16.03 | 0.065 | 1.65 |
| XM1822RCY | XM1822LCY | XM1822KCY | 22 | 0.697 | 17.70 | 0.065 | 1.65 |
| XM1825RCY | XM1825LCY | XM1825KCY | 25 | 0.758 | 19.25 | 0.065 | 1.65 |
| XM1834RCY | XM1834LCY | XM1834KCY | 34 | 0.856 | 21.74 | 0.065 | 1.65 |
| XM1842RCY | XM1842LCY | XM1842KCY | 42 | 0.915 | 23.24 | 0.085 | 2.16 |
| XM1849RCY | XM1849LCY | XM1849KCY | 49 | 1.006 | 25.55 | 0.085 | 2.16 |

**16 AWG (1.31 mm²)**

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1603RCY | XM1603LCY | XM1603KCY | 3 | 0.362 | 9.19 | 0.050 | 1.27 |
| XM1604RCY | XM1604LCY | XM1604KCY | 4 | 0.390 | 9.91 | 0.050 | 1.27 |
| XM1605RCY | XM1605LCY | XM1605KCY | 5 | 0.421 | 10.69 | 0.050 | 1.27 |
| XM1607RCY | XM1607LCY | XM1607KCY | 7 | 0.517 | 13.13 | 0.050 | 1.27 |
| XM1612RCY | XM1612LCY | XM1612KCY | 12 | 0.599 | 15.21 | 0.065 | 1.65 |
| XM1617RCY | XM1617LCY | XM1617KCY | 17 | 0.698 | 17.73 | 0.065 | 1.65 |
| XM1619RCY | XM1619LCY | XM1619KCY | 19 | 0.732 | 18.59 | 0.065 | 1.65 |
| XM1622RCY | XM1622LCY | XM1622KCY | 22 | 0.765 | 19.43 | 0.065 | 1.65 |
| XM1625RCY | XM1625LCY | XM1625KCY | 25 | 0.874 | 22.20 | 0.065 | 1.65 |
| XM1633RCY | XM1633LCY | XM1633KCY | 33 | 0.940 | 23.88 | 0.085 | 2.16 |
| XM1642RCY | XM1642LCY | XM1642KCY | 42 | 1.007 | 25.58 | 0.085 | 2.16 |
| XM1649RCY | XM1649LCY | XM1649KCY | 49 | 1.110 | 28.19 | 0.085 | 2.16 |

**14 AWG (2.11 mm²)**

Stranding: 105/34 (105 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1403RCY | XM1403LCY | XM1403KCY | 3 | 0.394 | 10.01 | 0.050 | 1.27 |
| XM1404RCY | XM1404LCY | XM1404KCY | 4 | 0.426 | 10.82 | 0.050 | 1.27 |
| XM1405RCY | XM1405LCY | XM1405KCY | 5 | 0.492 | 12.50 | 0.065 | 1.65 |
| XM1407RCY | XM1407LCY | XM1407KCY | 7 | 0.573 | 14.55 | 0.065 | 1.65 |
| XM1412RCY | XM1412LCY | XM1412KCY | 12 | 0.661 | 16.79 | 0.065 | 1.65 |

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage



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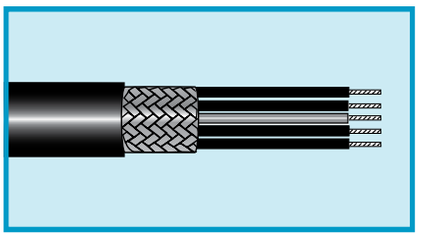
# Series XM Flexible Control Cable

## 600/1000 V Braid Shielded, PVC/Nylon, PVC



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**UL TC-ER (600 V)**
**UL WTTC (1000 V)**
**UL MTW (600 V)**
**CSA AWM I/II A/B FT4**
**CE compliant**

### Operating Temperature

-30°C to +90°C (static)
-5°C to +90°C (dynamic)

### Conductor Color Coding

- Chart KW, RW, LW (pages 533-535)
- Black, blue, or red* numbered conductors with one green/yellow ground conductor

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Tinned copper braid shield, 85% coverage
- Black PVC jacket

### Features

- UL Oil Res. I
- UL Sunlight Resistant
- Suitable for NFPA 79 application

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-600: Highly flexible cross-linked elastomer
- FIT-650: Chemical- and temperature-resistant fluoroelastomer

**12 AWG (3.38 mm²)**

Stranding 168/34 (168 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1203RCY | XM1203LCY | XM1203KCY | 3 | 0.459 | 11.66 | 0.050 | 1.27 |
| XM1204RCY | XM1204LCY | XM1204KCY | 4 | 0.529 | 13.44 | 0.065 | 1.65 |
| XM1205RCY | XM1205LCY | XM1205KCY | 5 | 0.579 | 14.71 | 0.065 | 1.65 |
| XM1207RCY | XM1207LCY | XM1207KCY | 7 | 0.674 | 17.12 | 0.065 | 1.65 |

**10 AWG (5.32 mm²)**

Stranding: 105/30 (105 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM1003RCY | XM1003LCY | XM1003KCY | 3 | 0.551 | 14.00 | 0.050 | 1.27 |
| XM1004RCY | XM1004LCY | XM1004KCY | 4 | 0.599 | 15.21 | 0.065 | 1.65 |
| XM1005RCY | XM1005LCY | XM1005KCY | 5 | 0.652 | 16.56 | 0.065 | 1.65 |
| XM1007RCY | XM1007LCY | XM1007KCY | 7 | 0.770 | 19.56 | 0.065 | 1.65 |

**8 AWG (8.51 mm²)**

Stranding: 168/30 (168 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm) PVC/0.006 (0.15 mm) nylon

| Part No. | | | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| Red | Blue | Black | | Inch | mm | Inch | mm |
| XM0803RCY | XM0803LCY | XM0803KCY | 3 | 0.712 | 18.08 | 0.065 | 1.65 |
| XM0804RCY | XM0804LCY | XM0804KCY | 4 | 0.778 | 19.76 | 0.065 | 1.65 |

*Red insulation: AC circuits operating at less than line voltage
Blue insulation: DC circuits operating at less than line voltage
Black insulation: AC circuits operating at less than line voltage

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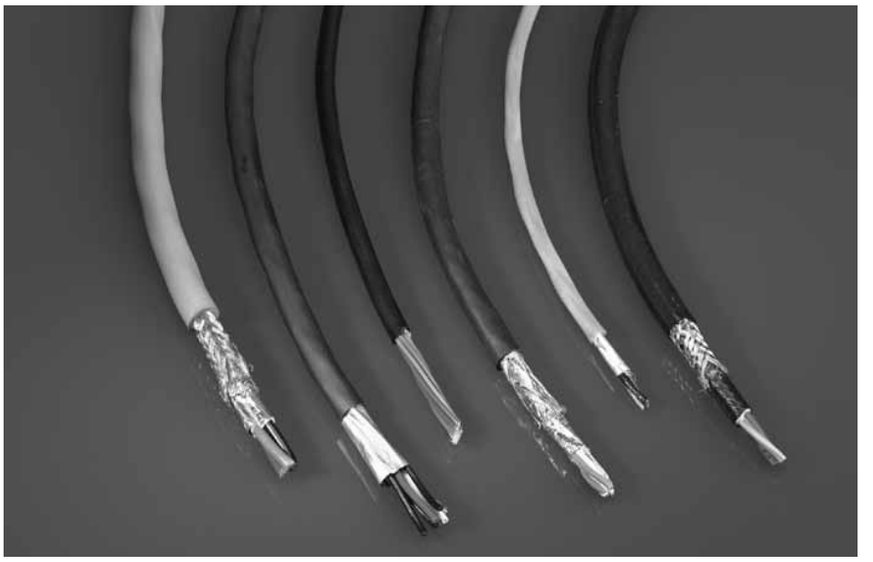

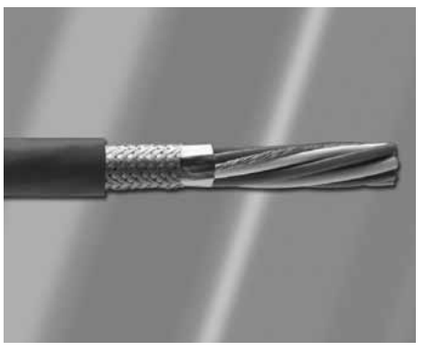

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Alpha Wire has a long heritage of supplying a wide range of wire, cable, tubing, and accessories for varying applications. We understand that despite the breadth and depth of our product portfolio, sometimes you require a cable as unique as the application. We make it easy to configure a custom cable.

We can also help you fashion the perfect cable to meet application parameters. The Alpha Wire Cable Design Center® allows you to quickly and easily modify any standard Alpha cable specification to your own application requirements. Count on the cable and application experts at Alpha Wire for guidance.

With our quick quotes and fast production turnaround, we will have your custom cable to you in no time.

- **Meet special application requirements**
- **Increase system reliability with application-specific configurations**
- **Speed installation by reducing the number of different cables needed**
- **Get the best match of electrical, mechanical, and environmental properties**
- **Build composite cables with a mixture of conductor sizes, insulations, and shielding**
- **Spec your design fast with the on-line Cable Design Center™**
- **Receive quotes quickly**
- **Experience industry-leading turnarounds on custom cables**



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# Manhattan™ Electrical Cable

## Signal transmission made reliable

Alpha Wire's Manhattan brand has been a trusted and reliable source of cable for over 60 years. Whether you need something as simple as a power cord or a cable that can maintain audio-video signal integrity in a noisy environment, you'll find the breadth and depth of products to ensure an optimum solution to your application.

- **Audio/video**
- **Computer**
- **Thermocouple**
- **Control**
- **Plenum**
- **Coaxial**
- **Cords/cordage**
- **High temperature**
- **Security and data**
- **Instrumentation**

### Audio/video cable

Choose the correct number of conductors, gauge, insulation, shielding, jacket material, UL/CSA/NEC approvals, and any other parameters to find the right cable for your application.

### Computer cable

We offer the widest range of shielded and unshielded configurations to satisfy applications including traditional RS-232 and RS-422 interfaces, point-of-sale equipment, and modems and multiplexers. For extended distances, we offer cables with very low capacitance.

### Instrumentation cable

Maintain the integrity of analog and digital signals with our broad product portfolio of single and multiple pair shielded and unshielded products.

### Control cable

We offer UL style TC in a variety of conductor counts, gauges, and shielding options, all with durable PVC/nylon insulation and PVC jackets. We also offer MIL-DTL-16878 cables with 600 V and 1000 V ratings.

### Plenum cable

We offer a full range of cables for control, computer interconnections, security, alarms, and building energy management systems in a variety of plenum-rated insulations and jackets.

### Coaxial cable

For a complete range of 50, 75, 93, and 100 ohm coaxial, twinaxial, and triaxial cables, we offer a wide range of insulations and jackets meeting the requirements of military specifications and regulatory agencies such as UL and CSA.

### Cords/cordsets

All our cords are UL Listed and CSA Certified; we also offer a wide range of CENELEC-approved products for international use. Options include two- and three-conductor cords, shielded or unshielded, stripped and terminated cable ends, straight or retractile cords, and all common plug and receptacle configurations.

### High-temperature cable

Alpha Wire's Manhattan brand of high-temperature cables are available for temperatures ranging from 150°C to 540°C. We make it easy for you select the right cable to meet the demanding high-temperature requirements for control and power applications.

### Security and data

Count on Alpha Wire for a complete product family of security and data cables, optimized for security video, data, and monitoring applications.

### Thermocouple cable

You can find the perfect Manhattan brand thermocouple cable based on conductor combinations JX, KX, EX, and SX, as well as insulations suited for applications up to 200°C, for quality and accurate temperature measurement.



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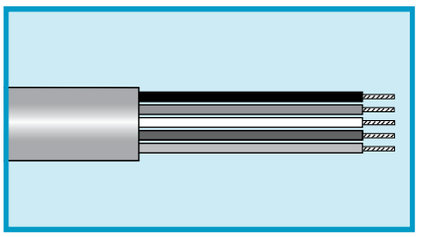
# Manhattan™ Audio/Video Cable

## 300 V Unshielded, Multiconductor, SR-PVC/PVC, PVC



**UL AWM 2464, 2509, 2576,**
**UL CM, CMG**
**CSA CM, CMG FT4**

### Applications

- Unbalanced intercom and sound systems
- Remote circuit control
- Low-voltage circuits

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM, CMG)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC or semirigid PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### UL AWM 2509, UL CMG, PVC Insulation

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code J

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13302** | 2 | 0.174 | 4.42 | 0.025 | 0.64 |

### UL AWM 2576, UL CM, PVC Insulation (150 V)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13303** | 3 | 0.172 | 4.37 | 0.032 | 0.81 | Black, Green, Red |
| **M13304** | 4 | 0.185 | 4.70 | 0.032 | 0.81 | O |
| **M13305** | 5 | 0.200 | 5.08 | 0.032 | 0.81 | O |
| **M13306** | 6 | 0.215 | 5.46 | 0.032 | 0.81 | O |
| **M13307** | 7 | 0.215 | 5.46 | 0.032 | 0.81 | O |
| **M13308** | 8 | 0.230 | 5.84 | 0.032 | 0.81 | O |
| **M13309** | 9 | 0.246 | 6.25 | 0.032 | 0.81 | O |
| **M13310** | 10 | 0.264 | 6.71 | 0.032 | 0.81 | O |
| **M13312** | 12 | 0.272 | 6.91 | 0.032 | 0.81 | O |
| **M13315** | 15 | 0.310 | 7.87 | 0.040 | 1.02 | F |
| **M13320** | 20 | 0.342 | 8.69 | 0.040 | 1.02 | F |
| **M13325** | 25 | 0.380 | 9.65 | 0.040 | 1.02 | F |
| **M13330** | 30 | 0.401 | 10.19 | 0.040 | 1.02 | F |
| **M13340** | 40 | 0.445 | 11.30 | 0.040 | 1.02 | F |
| **M13350** | 50 | 0.498 | 12.65 | 0.045 | 1.14 | F |

### UL AWM 2464, UL CM, PVC Insulation

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13404** | 4 | 0.219 | 5.56 | 0.032 | 0.81 | O |
| **M13405** | 5 | 0.238 | 6.05 | 0.032 | 0.81 | O |
| **M13407** | 7 | 0.257 | 6.53 | 0.032 | 0.81 | O |
| **M13409** | 9 | 0.303 | 7.70 | 0.035 | 0.89 | O |
| **M13412** | 12 | 0.336 | 8.53 | 0.035 | 0.89 | O |
| **M13415** | 15 | 0.374 | 9.50 | 0.040 | 1.02 | F |

### UL AWM 2509, UL CMG, PVC Insulation

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code J

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13402** | 2 | 0.180 | 4.57 | 0.020 | 0.51 |

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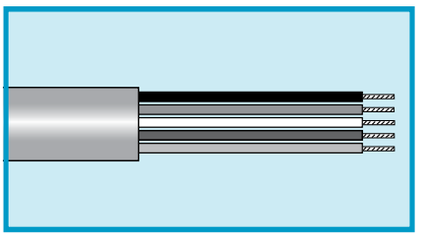
# Manhattan™ Audio/Video Cable

## 300 V Unshielded, Multiconductor, SR-PVC, PVC



**UL AWM 2463, 2464, 2509, 2576, 2598**
**UL CM, CMG**
**UL CL2, CL3**
**CSA CM, CMG FT4**

### Applications

- Unbalanced intercom and sound systems
- Remote circuit control
- Low-voltage circuits

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM, CMG, CL2, CL3)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC or semirigid PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### UL AWM 2509, UL CMG, PVC Insulation

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code J

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13502** | 2 | 0.198 | 5.03 | 0.020 | 0.51 |

### UL AWM 2598, UL CM, PVC Insulation

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.018 (0.46 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13503** | 3 | 0.249 | 6.32 | 0.032 | 0.81 | O |
| **M13504** | 4 | 0.272 | 6.91 | 0.032 | 0.81 | O |
| **M13505** | 5 | 0.297 | 7.54 | 0.032 | 0.81 | O |
| **M13507** | 7 | 0.333 | 8.46 | 0.037 | 0.94 | O |
| **M13509** | 9 | 0.387 | 9.83 | 0.037 | 0.94 | O |
| **M13512** | 12 | 0.437 | 11.10 | 0.040 | 1.02 | F |
| **M13515** | 15 | 0.485 | 12.32 | 0.045 | 1.14 | F |
| **M13519** | 19 | 0.520 | 13.21 | 0.045 | 1.14 | F |
| **M13525** | 25 | 0.636 | 16.15 | 0.060 | 1.52 | F |

### UL AWM 2576, UL CM, PVC Insulation

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Color Code F

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Insulation Thickness | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Inch | mm |
| **M13572** | 2 | 0.274 | 6.96 | 0.032 | 0.81 | 0.023 | 0.58 |
| **M13574** | 4 | 0.378 | 9.60 | 0.045 | 1.14 | 0.030 | 0.76 |

### UL AWM 2463, UL CL2 or CL3, PVC Insulation

**14 AWG (2.08 mm²)**

Stranding: 19/0.0147 (19 x 0.37 mm)
Insulation thickness: 0.032 (0.81 mm)
Color Code F

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approval |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13582** | 2 | 0.346 | 8.79 | 0.035 | 0.89 | CL2 |
| **M13584** | 4 | 0.404 | 10.26 | 0.035 | 0.89 | CL3 |

### UL AWM 2463, UL CL3, PVC Insulation

**12 AWG (3.29 mm²)**

Stranding: 19/0.0185 (19 x 0.47 mm)
Insulation thickness: 0.032 (0.81 mm)
Color Code F

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13590** | 2 | 0.394 | 10.00 | 0.040 | 1.02 |



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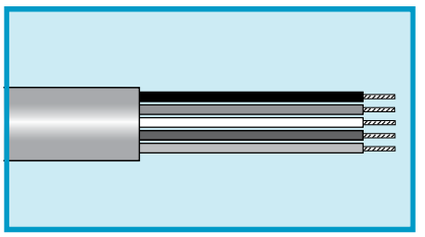
# Manhattan™ Audio/Video Cable

## 300 V Unshielded, Multiconductor, PVC, PVC



### UL AWM 2463 (600 V) VW-1

#### Applications

- Unbalanced intercom and sound systems
- Remote circuit control
- Low-voltage circuits

#### Operating Temperature

- -20°C to +80°C

#### Conductor Color Coding

- Chart F (page 532)

#### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

#### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3704** | 4 | 0.392 | 9.96 | 0.047 | 1.19 |
| **M3705** | 5 | 0.428 | 10.87 | 0.047 | 1.19 |
| **M3707** | 7 | 0.465 | 11.81 | 0.047 | 1.19 |
| **M3709** | 9 | 0.574 | 14.58 | 0.063 | 1.60 |
| **M3712** | 12 | 0.637 | 16.17 | 0.063 | 1.60 |
| **M3715** | 15 | 0.691 | 17.55 | 0.063 | 1.60 |
| **M3719** | 19 | 0.742 | 18.85 | 0.063 | 1.60 |
| **M3725** | 25 | 0.904 | 22.96 | 0.083 | 2.11 |

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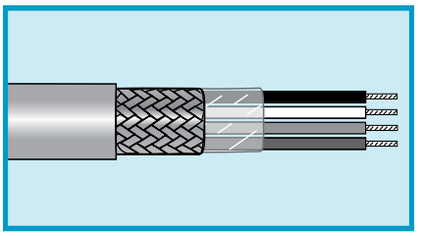
## 300 V Braid Shield, Multiconductor, PE, PVC



**UL AWM 2092, 2093, 2094**
**UL CM**

### Applications

- Sensing, recording, monitoring devices, and telemetry

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60°C (AWM)

### Conductor Color Coding

- Chart H (page 533)

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.20 mm²)**

Stranding: 10/34 (10 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M1102** | 2 | 0.177 | 4.50 | 0.020 | 0.51 | 2092 |
| **M1103** | 3 | 0.186 | 4.72 | 0.020 | 0.51 | 2093 |
| **M1104** | 4 | 0.200 | 5.08 | 0.020 | 0.51 | 2094 |
| **M1105** | 5 | 0.217 | 5.51 | 0.020 | 0.51 | 2094 |
| **M1106** | 6 | 0.234 | 5.94 | 0.020 | 0.51 | 2094 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M1112** | 2 | 0.193 | 4.90 | 0.020 | 0.51 | 2092 |
| **M1113** | 3 | 0.203 | 5.16 | 0.020 | 0.51 | 2093 |
| **M1114** | 4 | 0.220 | 5.59 | 0.020 | 0.51 | 2094 |
| **M1115** | 5 | 0.239 | 6.07 | 0.020 | 0.51 | 2094 |
| **M1116** | 6 | 0.258 | 6.55 | 0.020 | 0.51 | 2094 |
| **M1118** | 8 | 0.278 | 7.06 | 0.020 | 0.51 | 2094 |

**20 AWG (0.52 mm²)**

Stranding: 26/34 (26 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M1122** | 2 | 0.229 | 5.82 | 0.032 | 0.81 | 2092 |
| **M1123** | 3 | 0.246 | 6.25 | 0.035 | 0.89 | 2093 |
| **M1124** | 4 | 0.264 | 6.71 | 0.035 | 0.89 | 2094 |
| **M1125** | 5 | 0.285 | 7.24 | 0.035 | 0.89 | 2094 |
| **M1126** | 6 | 0.306 | 7.77 | 0.035 | 0.89 | 2094 |
| **M1128** | 8 | 0.328 | 8.33 | 0.035 | 0.89 | 2094 |
| **M1130** | 10 | 0.375 | 9.53 | 0.035 | 0.89 | 2094 |
| **M1132** | 12 | 0.386 | 9.80 | 0.035 | 0.89 | 2094 |
| **M1135** | 15 | 0.417 | 10.59 | 0.035 | 0.89 | 2094 |
| **M1140** | 20 | 0.464 | 11.79 | 0.035 | 0.89 | 2094 |



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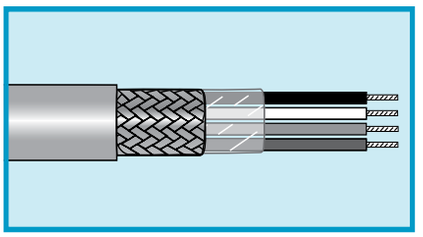
# Manhattan™ Audio/Video Cable

## 300 V Braid Shield, Multiconductor, PE, PVC



**UL AWM 2092, 2093, 2094**
**UL CM**

### Applications

- Sensing, recording, monitoring devices, and telemetry

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60°C (AWM)

### Conductor Color Coding

- Chart H (page 533)

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.82 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M1142** | 2 | 0.253 | 6.43 | 0.035 | 0.89 | 2092 |
| **M1143** | 3 | 0.265 | 6.73 | 0.035 | 0.89 | 2093 |
| **M1144** | 4 | 0.286 | 7.26 | 0.035 | 0.89 | 2094 |
| **M1146** | 6 | 0.333 | 8.46 | 0.035 | 0.89 | 2094 |

**16 AWG (1.31 mm²)**

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M1162** | 2 | 0.277 | 7.04 | 0.035 | 0.89 | 2092 |
| **M1163** | 3 | 0.291 | 7.39 | 0.035 | 0.89 | 2093 |
| **M1164** | 4 | 0.308 | 7.82 | 0.035 | 0.89 | 2094 |

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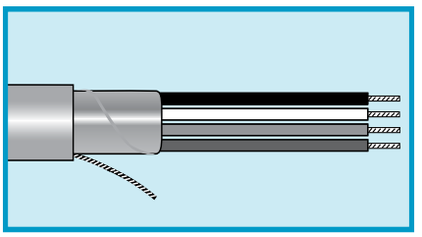
# Manhattan™ Audio/Video Cable

## 300 V Foil Shield, Overall, Multiconductor, PP, HDPE Direct Burial



**UL AWM 2092, 2093, 2094**
**UL CM**

### Applications

- Direct burial audio and data transmission

### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- See table

### Materials

- Solid tinned copper conductors
- Polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  22 AWG (0.32 mm²) solid tinned copper drain wire
- Black high-density polyethylene jacket

### Features

- Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk
(Minimums may apply)

**20 AWG (0.51 mm²)**

Stranding: : 10/30 (10 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M39047** | 2 | 0.193 | 4.90 | 0.035 | 0.89 | O |
| **M39048** | 3 | 0.202 | 5.13 | 0.035 | 0.89 | O |
| **M39049** | 10 | 0.319 | 8.10 | 0.040 | 1.02 | O |
| **M39050** | 15 | 0.363 | 9.22 | 0.045 | 1.14 | F |

Mutual capacitance: 22.2 pF/ft (72.8 pF/m)
Ground capacitance: 40 pF/ft (131.2 pF/m)
Except Part No. M39047:
Mutual capacitance: 24.5 pF/ft (80.3 pF/m)
Ground capacitance: 44 pF/ft (144.3 pF/m)



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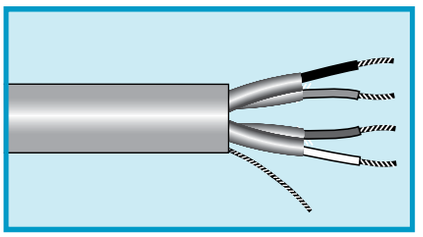
# Manhattan™ Audio/Video Cable

## 350 V Individually Foil Shielded Pairs, Multipair, PP, HDPE Direct Burial



**UL AWM 2092, 2093, 2094**
**UL CM**

### Applications

- Direct burial audio and data transmission

### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  22 AWG (0.35 mm²) stranded tinned copper drain wire
- Black high-density polyethylene jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.51 mm²)**

Stranding: 10/30 (10 x 0.25)
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39051** | 3 | 0.336 | 8.53 | 0.040 | 1.02 |
| **M39052** | 6 | 0.446 | 11.33 | 0.045 | 1.14 |

Mutual capacitance: 24.5 pF/ft (80.3 pF/m)
Ground capacitance: 44 pF/ft (144.3 pF/m)

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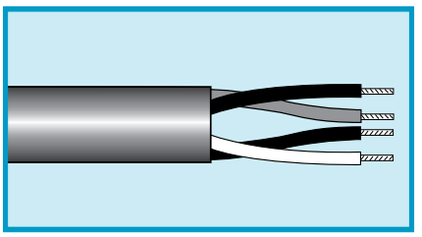
# Manhattan™ Audio/Video Cable

## 300 V Unshielded, Multipair, PVC, PVC



**UL AWM 2464, 2576 (150 V)**
**UL CMG**
**CSA CMG FT4 (150 V)**

### Applications

- Speakers and sound systems

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Solid or stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**AWM 2576, CMG**

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13001** | 1 | 0.157 | 3.98 | 0.032 | 0.81 |
| **M13002** | 2 | 0.215 | 5.46 | 0.032 | 0.81 |
| **M13003** | 3 | 0.226 | 5.74 | 0.032 | 0.81 |
| **M13004** | 4 | 0.246 | 6.24 | 0.032 | 0.81 |
| **M13005** | 5 | 0.267 | 6.78 | 0.032 | 0.81 |
| **M13006** | 6 | 0.289 | 7.34 | 0.032 | 0.81 |
| **M13008** | 8 | 0.318 | 8.07 | 0.035 | 0.89 |
| **M13009** | 9 | 0.342 | 8.68 | 0.035 | 0.89 |
| **M13013** | 13 | 0.392 | 9.95 | 0.037 | 0.94 |
| **M13019** | 19 | 0.452 | 11.48 | 0.040 | 1.02 |
| **M13027** | 27 | 0.547 | 13.89 | 0.045 | 1.14 |

**AWM 2576, CMG**

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13032** | 2 | 0.231 | 5.86 | 0.032 | 0.81 |
| **M13033** | 3 | 0.244 | 6.19 | 0.032 | 0.81 |
| **M13034** | 4 | 0.265 | 6.73 | 0.032 | 0.81 |
| **M13036** | 6 | 0.320 | 8.13 | 0.035 | 0.89 |
| **M13039** | 9 | 0.375 | 9.52 | 0.037 | 0.94 |
| **M13042** | 12 | 0.424 | 10.76 | 0.040 | 1.02 |
| **M13045** | 15 | 0.460 | 11.68 | 0.040 | 1.02 |
| **M13049** | 19 | 0.493 | 12.52 | 0.040 | 1.02 |
| **M13057** | 27 | 0.598 | 15.18 | 0.045 | 1.14 |



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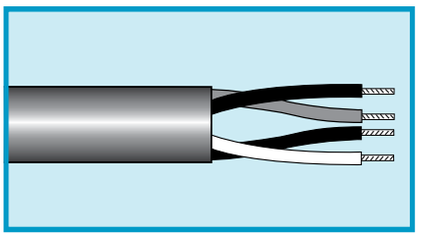
# Manhattan™ Audio/Video Cable

## 300 V Unshielded, Multipair, PVC, PVC



**UL AWM 2464, 2576 (150 V)**
**UL CMG**
**CSA CMG FT4 (150 V)**

### Applications

- Speakers and sound systems

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Solid or stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**AWM 2464, CMG**

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13063** | 3 | 0.224 | 5.68 | 0.035 | 0.89 |
| **M13066** | 6 | 0.284 | 7.21 | 0.035 | 0.89 |
| **M13069** | 9 | 0.328 | 8.33 | 0.035 | 0.89 |
| **M13072** | 15 | 0.405 | 10.28 | 0.040 | 1.02 |

**AWM 2464, CMG**

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13081** | 1 | 0.225 | 5.72 | 0.032 | 0.81 |
| **M13082** | 2 | 0.326 | 8.28 | 0.032 | 0.81 |
| **M13083** | 3 | 0.346 | 8.79 | 0.032 | 0.81 |
| **M13084** | 4 | 0.380 | 9.65 | 0.032 | 0.81 |
| **M13085** | 5 | 0.418 | 10.62 | 0.032 | 0.81 |
| **M13086** | 6 | 0.458 | 11.63 | 0.032 | 0.81 |
| **M13088** | 8 | 0.508 | 12.90 | 0.037 | 0.94 |
| **M13089** | 9 | 0.554 | 14.07 | 0.040 | 1.02 |
| **M13092** | 12 | 0.633 | 16.08 | 0.046 | 1.17 |
| **M13095** | 15 | 0.700 | 17.78 | 0.051 | 1.30 |
| **M13099** | 19 | 0.761 | 19.33 | 0.055 | 1.40 |

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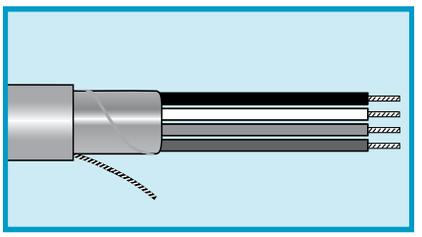
# Manhattan™ Audio/Video Cable

## 300 V Foil Shield, Overall, Multiconductor, PE, PVC



**UL AWM 2092, 2093, 2094**
**UL CMG**
**CSA CMG**
**CSA FT4**

### Applications

- Audio and sound systems requiring small-diameter cable with 100% shield coverage

### Operating Temperature

- -20°C to +75°C (CMG)
- -20°C to +60°C (AWM)

### Conductor Color Coding

- AWM 2092: 1 Black, 2 Red (except Part No. M3222: Black, Natural)
- AWM 2093: 1 Black, 2 Red, 3 Natural
- AWM 2094: 1 Black, 2 Red, 3 Natural, 4 Green

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire (see tables for size)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M3222** | 2 | 0.159 | 4.04 | 0.020 | 0.51 | 2092 |
| **M3223** | 3 | 0.168 | 4.27 | 0.020 | 0.51 | 2093 |
| **M3224** | 4 | 0.182 | 4.62 | 0.020 | 0.51 | 2094 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M3226** | 2 | 0.171 | 4.34 | 0.020 | 0.51 | 2092 |
| **M3227** | 3 | 0.181 | 4.60 | 0.020 | 0.51 | 2093 |
| **M3228** | 4 | 0.197 | 5.00 | 0.020 | 0.51 | 2094 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M3232** | 2 | 0.187 | 4.75 | 0.020 | 0.51 | 2092 |
| **M3233** | 3 | 0.198 | 5.03 | 0.020 | 0.51 | 2093 |
| **M3234** | 4 | 0.216 | 5.49 | 0.020 | 0.51 | 2094 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M3242** | 2 | 0.205 | 5.21 | 0.020 | 0.51 | 2092 |
| **M3243** | 3 | 0.217 | 5.51 | 0.020 | 0.51 | 2093 |
| **M3244** | 4 | 0.238 | 6.05 | 0.020 | 0.51 | 2094 |



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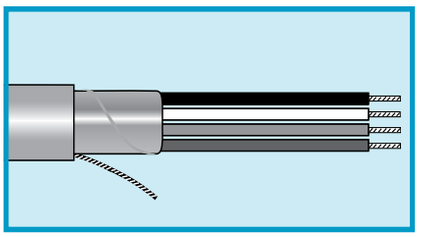
# Manhattan™ Audio/Video Cable

## 300 V Foil Shield, Overall, Multiconductor, PE, PVC



**UL AWM 2092, 2093, 2094**
**UL CMG**
**UL CL2 (150 V)**
**CSA CMG**
**CSA FT4**

### Applications

- Audio and sound systems requiring small-diameter cable with 100% shield coverage

### Operating Temperature

- -20°C to +75°C (CMG)
- -20°C to +60°C (AWM)

### Conductor Color Coding

- AWM 2092 and CL2: 1 Black, 2 Red
- AWM 2093: 1 Black, 2 Red, 3 Natural

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire (see tables for size)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)
18 AWG (0.81 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M3247** | 2 | 0.229 | 5.82 | 0.020 | 0.51 | 2092 |
| **M3248** | 3 | 0.243 | 6.17 | 0.020 | 0.51 | 2093 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)
16 AWG (1.32 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL Style |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M3249** | 2 | 0.288 | 7.32 | 0.030 | 0.76 | CL2 |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)
14 AWG (2.08 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL Style |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M3250** | 2 | 0.326 | 8.28 | 0.030 | 0.76 | CL2 |

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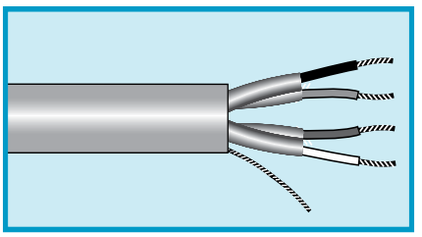
# Manhattan™ Audio/Video Cable

## 300 V Individually Foil Shielded Pairs, Multipair, PP/PE/SR-PVC, PVC



**UL AWM 2464, 2493, 2919 (30 V)**
**UL CM**
**CSA CM**

### Applications

- Audio and sound systems

### Operating Temperature

- -20°C to +80°C (AWM 2464)
- -20°C to +75°C (CM)
- -20°C to +60°C (AWM 2919, 2493)

### Conductor Color Coding

- AWM 2919: Chart K (page 529)
- AWM 2493: Chart A (page 528)
- AWM 2464 and CM: Black/Red, Green/White

### Materials

- Solid or stranded tinned copper conductors
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor (unless noted)
- Polyethylene, polypropylene, or semirigid PVC insulation (see tables)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### AWM 2493, UL CM, Polypropylene Insulation

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39039** | 6 | 0.362 | 9.19 | 0.050 | 1.27 |
| **M39040** | 9 | 0.415 | 10.54 | 0.050 | 1.27 |
| **M39041** | 11 | 0.459 | 11.66 | 0.050 | 1.27 |
| **M39042** | 15 | 0.507 | 12.88 | 0.050 | 1.27 |

### UL CM, Polypropylene Insulation

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.20 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4473** | 2 | 0.150 | 3.81 | 0.19 | 0.48 |

### AWM 2919, UL CM, Polypropylene Insulation

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13103** | 3 | 0.271 | 6.88 | 0.032 | 0.81 |
| **M13106** | 6 | 0.349 | 8.86 | 0.032 | 0.81 |
| **M13109** | 9 | 0.412 | 10.46 | 0.032 | 0.81 |
| **M13111** | 11 | 0.466 | 11.84 | 0.035 | 0.89 |
| **M13112** | 12 | 0.466 | 11.84 | 0.035 | 0.89 |
| **M13115** | 15 | 0.537 | 13.64 | 0.050 | 1.27 |
| **M13117** | 17 | 0.577 | 14.66 | 0.050 | 1.27 |
| **M13119** | 19 | 0.577 | 14.66 | 0.050 | 1.27 |
| **M13127** | 27 | 0.685 | 17.40 | 0.050 | 1.27 |
| **M13130** | 37 | 0.766 | 19.46 | 0.050 | 1.27 |

### AWM 2464, UL CM, SR-PVC Insulation

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13142** | 2 | 0.284 | 7.21 | 0.032 | 0.81 |



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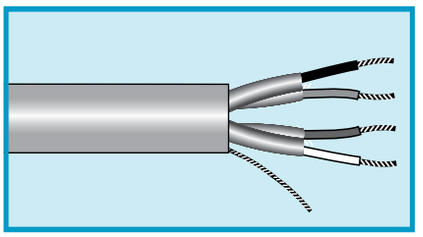
# Manhattan™ Audio/Video Cable

## 300 V Individually Foil Shielded Pairs, Multipair, PP/PE/SR-PVC, PVC



**UL AWM 2464, 2493, 2919 (30 V)**
**UL CM**
**CSA CM**

### Applications

- Audio and sound systems

### Operating Temperature

- -20°C to +80°C (AWM 2464)
- -20°C to +75°C (CM)
- -20°C to +60°C (AWM 2919, 2493)

### Conductor Color Coding

- AWM 2919: Chart K (page 529)
- AWM 2493: Chart A (page 528)
- AWM 2464 and CM: Black/Red, Green/White

### Materials

- Solid or stranded tinned copper conductors
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor (unless noted)
- Polyethylene, polypropylene, or semirigid PVC insulation (see tables)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**AWM 2919, UL CM, Polyethylene Insulation**

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.013 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13143** | 3 | 0.324 | 8.23 | 0.032 | 0.64 |
| **M13146** | 6 | 0.448 | 11.38 | 0.043 | 1.09 |
| **M13149** | 9 | 0.522 | 13.26 | 0.043 | 1.09 |
| **M13151** | 11 | 0.579 | 14.71 | 0.050 | 1.27 |
| **M13152** | 12 | 0.598 | 15.19 | 0.050 | 1.27 |
| **M13155** | 15 | 0.650 | 16.51 | 0.050 | 1.27 |

**AWM 2919, UL CM, Polyethylene Insulation**

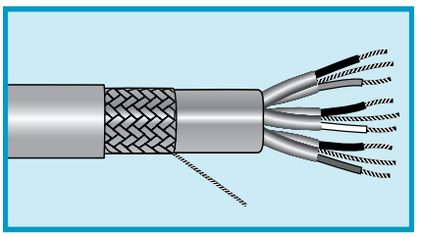
**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
Drain wire: 20 AWG (0.56 mm²)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13173** | 3 | 0.380 | 9.65 | 0.032 | 0.81 |
| **M13176** | 6 | 0.541 | 13.74 | 0.050 | 1.27 |
| **M13179** | 9 | 0.632 | 16.05 | 0.050 | 1.27 |
| **M13182** | 12 | 0.737 | 18.72 | 0.065 | 1.65 |
| **M13185** | 15 | 0.817 | 20.75 | 0.065 | 1.65 |

# Manhattan™ Audio/Video Cable

## 300 V Individually Foil Shielded Pairs, Multipair, PP, PVC



**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.015 (0.38 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M14604** | 4 | 0.365 | 9.27 | 0.030 | 0.76 |

Mutual capacitance: 23 pF/ft (75.5 pF/m)
Ground capacitance: 41 pF/ft (134.5 pF/m)

**UL CMG VW-1**
**CSA CMG**

### Applications

- Communication and instrumentation systems requiring special wiring
- Audio process-control computer systems

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- 1 Black–Red, 2 Green–White, 3 White/Red–White/Black, 4 White/Yellow–White/Green

### Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min
  Foil facing inward
  22 AWG (0.35 mm²) stranded tinned copper drain wire
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)



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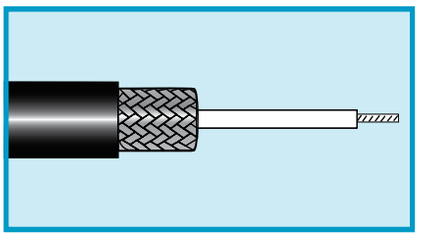
# Manhattan™ Audio/Video Cable

## Braid or Spiral Shield, Single Conductor, PE, PVC Microphone Cable



### Applications

- High-impedance microphones
- Hi-fi interconnection systems
- Instruments and tape recorders

### Operating Temperature

- –20°C to +60°C

### Materials

- Stranded tinned copper conductors*
- Polyethylene insulation
- Braided tinned copper or spiral wrapped tinned copper shield
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

| Part No. | Voltage | Wire Size | | Stranding | | Nominal Diameter | | Shield | Jacket Thickness | | Insulation Thickness | | Capacitance | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | | Inch | mm | Inch | mm | pF/ft | pF/m |
| **M3601*** | 300 | 30 | 0.05 | 7/38* | 7 x 0.10 | 0.086 | 2.18 | Braid | 0.016 | 0.41 | 0.012 | 0.30 | 32 | 105.0 |
| **M3633*** | 1000 | 26 | 0.14 | 7/34* | 7 x 0. 16 | 0.101 | 2.57 | Spiral | 0.020 | 0.50 | 0.016 | 0.41 | 35 | 114.8 |
| **M3605** | 3500 | 24 | 0.20 | 10/34 | 10 x 0.16 | 0.146 | 3.71 | Braid | 0.030 | 0.76 | 0.020 | 0.50 | 36 | 118.1 |
| **M3635** | 1000 | 24 | 0.20 | 10/34 | 10 x 0. 16 | 0.106 | 2.69 | Spiral | 0.020 | 0.50 | 0.016 | 0.41 | 41 | 134.5 |
| **M3611** | 4000 | 20 | 0.52 | 26/34 | 26 x 0.16 | 0.180 | 4.57 | Braid | 0.030 | 0.76 | 0.030 | 0.76 | 39 | 128.0 |

*M3601 and M3633 have 3 strands of tinned copper and 4 strands of tinned Copperweld.

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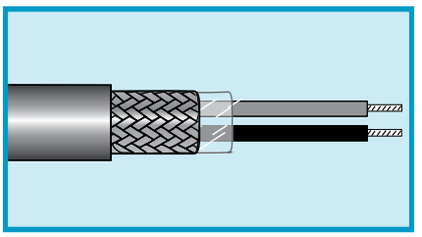
# Manhattan™ Audio/Video Cable

## 300 V Braid Shield, Multiconductor, PVC, PVC Microphone Cable



**UL AWM 2095**
**UL CMG**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Code

- 1 Black, 2 Red

### Materials

- Solid or stranded tinned copper conductors
- PVC insulation
- Tinned copper braid shield, 88% coverage
  Drain wire equivalent to conductors
- Black PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M14461** | 2 | 0.195 | 4.95 | 0.028 | 0.71 |

Mutual capacitance: 41 pF/ft (134.5 pF/m)
Ground capacitance: 74 pF/ft (242.8 pF/m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M14462** | 2 | 0.205 | 5.21 | 0.028 | 0.71 |

Mutual capacitance: 43 pF/ft (141.3 pF/m)
Ground capacitance: 77 pF/ft (252.6 pF/m)



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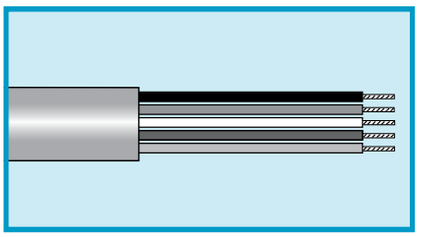
# Manhattan™ Audio/Video Cable

## 300 V Unshielded, Multiconductor, PVC, PVC



**UL AWM 2509, 2576**
**UL CL2**
**UL CMG**
**CSA CMG FT4**

### Applications

- Unbalanced intercom and sound systems
- Remote circuit controls
- Telephones
- Low-voltage circuits

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG and CL2)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**UL AWM 2509, UL CMG**

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code D

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33402** | 2 | 0.183 | 4.65 | 0.020 | 0.51 |
| **M33403** | 3 | 0.191 | 4.85 | 0.020 | 0.51 |
| **M33404** | 4 | 0.209 | 5.31 | 0.020 | 0.51 |
| **M33406** | 6 | 0.251 | 6.38 | 0.020 | 0.51 |
| **M33408** | 8 | 0.273 | 6.93 | 0.020 | 0.51 |
| **M33410** | 10 | 0.320 | 8.13 | 0.020 | 0.51 |
| **M33412** | 12 | 0.331 | 8.41 | 0.020 | 0.51 |
| **M33415** | 15 | 0.362 | 9.19 | 0.020 | 0.51 |
| **M33419** | 19 | 0.390 | 9.91 | 0.020 | 0.51 |

**UL AWM 2509, UL CMG**

**18 AWG (0.81 mm²)**

Stranding: 16/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code D

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M33502** | 2 | 0.208 | 5.28 | 0.025 | 0.64 |
| **M33503** | 3 | 0.220 | 5.59 | 0.025 | 0.64 |
| **M33504** | 4 | 0.241 | 6.12 | 0.025 | 0.64 |
| **M33505** | 5 | 0.264 | 6.71 | 0.025 | 0.64 |
| **M33506** | 6 | 0.288 | 7.32 | 0.025 | 0.64 |
| **M33507** | 7 | 0.288 | 7.32 | 0.025 | 0.64 |
| **M33508** | 8 | 0.313 | 7.95 | 0.025 | 0.64 |
| **M33510** | 10 | 0.366 | 9.30 | 0.025 | 0.64 |
| **M33512** | 12 | 0.378 | 9.60 | 0.025 | 0.64 |
| **M33515** | 15 | 0.423 | 10.74 | 0.030 | 0.76 |
| **M33519** | 19 | 0.465 | 11.81 | 0.035 | 0.89 |
| **M33525** | 25 | 0.544 | 13.82 | 0.035 | 0.89 |

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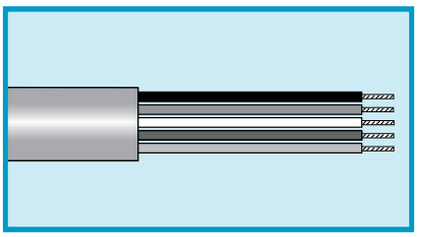
## 300 V Unshielded, Multiconductor, PVC, PVC



**UL AWM 2509, 2576**
**UL CL2**
**UL CMG**
**CSA CMG FT4**

### Applications

- Unbalanced intercom and sound systems
- Remote circuit controls
- Telephones
- Low-voltage circuits

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG and CL2)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### UL AWM 2509, UL CMG

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code D

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33572** | 2 | 0.232 | 5.89 | 0.025 | 0.64 |
| **M33573** | 3 | 0.246 | 6.25 | 0.025 | 0.64 |
| **M33574** | 4 | 0.273 | 6.93 | 0.025 | 0.64 |
| **M33576** | 6 | 0.327 | 8.31 | 0.025 | 0.64 |
| **M33578** | 8 | 0.356 | 9.04 | 0.025 | 0.64 |

### UL AWM 2576, UL CL2

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33582** | 2 | 0.295 | 7.49 | 0.032 | 0.81 |
| **M33583** | 3 | 0.313 | 7.95 | 0.032 | 0.81 |

### UL AWM 2576, UL CL2

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33590** | 2 | 0.333 | 8.45 | 0.032 | 0.81 |
| **M33591** | 3 | 0.354 | 8.99 | 0.032 | 0.81 |



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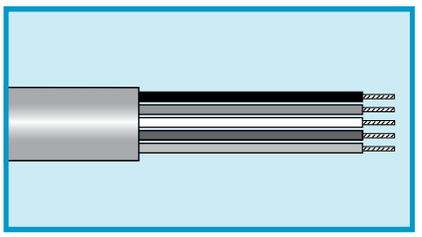
# Manhattan™ Audio/Video Cable

## 300 V Unshielded, Multiconductor, SR-PVC, PVC



**UL AWM 2464, 2509, 2576**
**UL CMG**
**CSA CMG FT4**

### Applications

- Unbalanced intercom and sound systems
- Remote circuit controls
- Telephones
- Low-voltage circuits

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart E (page 532) for AWM 2464
- Chart D (page 531) for AWM 2576

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk
(Minimums may apply)

### UL AWM 2464, UL CMG

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code E

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M38902** | 2 | 0.155 | 3.94 | 0.032 | 0.81 |
| **M38903** | 3 | 0. 162 | 4.11 | 0.032 | 0.81 |
| **M38904** | 4 | 0.173 | 4.39 | 0.032 | 0.81 |
| **M38906** | 6 | 0.200 | 5.08 | 0.032 | 0.81 |
| **M38908** | 8 | 0.213 | 5.41 | 0.032 | 0.81 |
| **M38910** | 10 | 0.243 | 6.17 | 0.032 | 0.81 |
| **M38915** | 15 | 0.269 | 6.83 | 0.032 | 0.81 |
| **M38920** | 20 | 0.297 | 7.54 | 0.032 | 0.81 |
| **M38925** | 25 | 0.331 | 8.41 | 0.032 | 0.81 |
| **M38930** | 30 | 0.349 | 8.86 | 0.032 | 0.81 |
| **M38940** | 40 | 0.389 | 9.88 | 0.032 | 0.81 |
| **M38950** | 50 | 0.426 | 10.82 | 0.032 | 0.81 |

### UL AWM 2576, UL CMG

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code D

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33302** | 2 | 0.164 | 4.16 | 0.032 | 0.81 |
| **M33303** | 3 | 0.175 | 4.45 | 0.032 | 0.81 |
| **M33304** | 4 | 0.188 | 4.78 | 0.032 | 0.81 |
| **M33305** | 5 | 0.203 | 5.16 | 0.032 | 0.81 |
| **M33306** | 6 | 0.218 | 5.54 | 0.032 | 0.81 |
| **M33308** | 8 | 0.233 | 5.92 | 0.032 | 0.81 |
| **M33310** | 10 | 0.267 | 6.78 | 0.032 | 0.81 |
| **M33312** | 12 | 0.275 | 6.99 | 0.032 | 0.81 |
| **M33315** | 15 | 0.297 | 7.54 | 0.032 | 0.81 |
| **M33320** | 20 | 0.329 | 8.36 | 0.032 | 0.81 |
| **M33325** | 25 | 0.367 | 9.32 | 0.032 | 0.81 |
| **M33330** | 30 | 0.388 | 9.86 | 0.032 | 0.81 |
| **M33340** | 40 | 0.432 | 10.97 | 0.032 | 0.81 |
| **M33350** | 50 | 0.481 | 12.22 | 0.035 | 0.89 |
| **M33360** | 60 | 0.523 | 13.28 | 0.035 | 0.89 |

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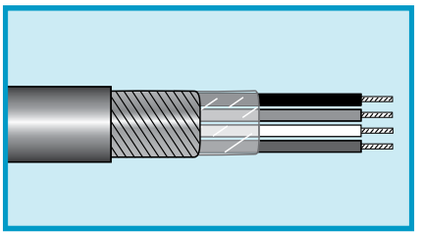
# Manhattan™ Audio/Video Cable

## 300 V Spiral Wrap Copper Shield, Multiconductor, PVC, PVC



**UL AWM 2095**
**UL AWM 1108**
**(Single conductor)**
**UL CMG**
**CSA CMG FT4**

### Applications

- Audio and RF frequencies

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Yellow, 6 Blue
- Part No. M13282: 1 Red, 2 White

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Spiral wrapped tinned copper shield, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3261** | 1 | 0.112 | 2.84 | 0.020 | 0.51 |
| **M3262** | 2 | 0.177 | 4.50 | 0.020 | 0.51 |
| **M3263** | 3 | 0.187 | 4.75 | 0.020 | 0.51 |
| **M3264** | 4 | 0.206 | 5.23 | 0.020 | 0.51 |
| **M3266** | 6 | 0.243 | 6.17 | 0.020 | 0.51 |

**20 AWG (0.50 mm²)**

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3271** | 1 | 0.119 | 3.02 | 0.020 | 0.51 |
| **M3272** | 2 | 0.191 | 4.85 | 0.020 | 0.51 |
| **M3273** | 3 | 0.202 | 5.13 | 0.020 | 0.51 |
| **M3274** | 4 | 0.223 | 5.66 | 0.020 | 0.51 |
| **M3276** | 6 | 0.264 | 6.71 | 0.020 | 0.51 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (10 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13272** | 2 | 0.203 | 5.16 | 0.025 | 0.64 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3281** | 1 | 0.129 | 3.28 | 0.020 | 0.51 |
| **M3282** | 2 | 0.214 | 5.44 | 0.020 | 0.51 |
| **M3283** | 3 | 0.226 | 5.74 | 0.020 | 0.51 |
| **M3284** | 4 | 0.247 | 6.27 | 0.020 | 0.51 |



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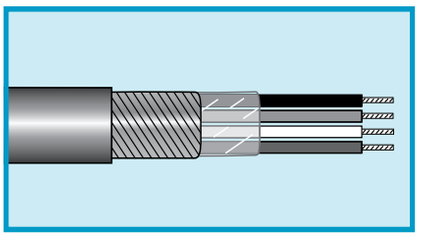
# Manhattan™ Audio/Video Cable

## 300 V Spiral Wrap Copper Shield, Multiconductor, PVC, PVC



**UL AWM 2095**
**UL AWM 1108**
**(Single conductor)**
**UL CMG**
**CSA CMG FT4**

### Applications

- Audio and RF frequencies

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Yellow, 6 Blue
- Part No. M13282: 1 Red, 2 White

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Spiral wrapped tinned copper shield, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.89 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13282** | 2 | 0.256 | 6.50 | 0.028 | 0.71 |
| **M13283** | 3 | 0.270 | 6.86 | 0.028 | 0.71 |

**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3287** | 2 | 0.240 | 6.10 | 0.025 | 0.64 |
| **M3288** | 3 | 0.254 | 6.45 | 0.025 | 0.64 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.023 (0.58 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13287** | 2 | 0.286 | 7.26 | 0.030 | 0.76 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3289*** | 2 | 0.295 | 7.49 | 0.025 | 0.64 |
| **M3290*** | 3 | 0.312 | 7.92 | 0.025 | 0.64 |

*450 V.

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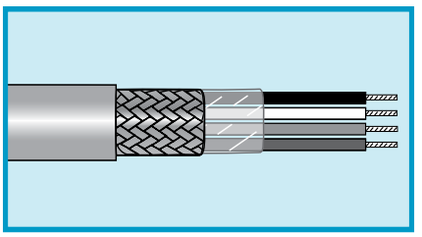
# Manhattan™ Audio/Video Cable

## 300 V Braid Shield, Multiconductor, PVC, PVC



### UL AWM 2095, 2464
### CSA CMG FT4

#### Applications

- Audio and sound systems experiencing high flexing and needing additional tensile strength

#### Operating Temperature

- -20°C to +80°C (AMW)
- -20°C to +75°C (CMG)

#### Conductor Color Coding

- Chart D (page 531), unless otherwise noted

#### Materials

- Stranded tinned copper conductors
- PVC insulation
- Tinned copper braid shield, 85% coverage
- Slate PVC jacket

#### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

UL 2095

**22 AWG (0.035mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3202** | 2 | 0.189 | 4.80 | 0.020 | 0.51 |
| **M13203** | 3 | 0.199 | 5.05 | 0.020 | 0.51 |
| **M3204** | 4 | 0.215 | 5.46 | 0.020 | 0.51 |

UL 2095

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3206** | 2 | 0.205 | 5.21 | 0.020 | 0.51 |
| **M3207** | 3 | 0.216 | 5.49 | 0.020 | 0.51 |
| **M3208** | 4 | 0.234 | 5.94 | 0.020 | 0.51 |
| **M13209*** | 6 | 0.300 | 7.62 | 0.032 | 0.81 |
| **M13210*** | 12 | 0.396 | 10.06 | 0.040 | 1.02 |

*UL AWM 2464. Conductor color code Chart F (page 532).

UL 2095

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3212** | 2 | 0.223 | 5.66 | 0.020 | 0.51 |
| **M3213** | 3 | 0.235 | 5.97 | 0.020 | 0.51 |
| **M3214** | 4 | 0.256 | 6.50 | 0.020 | 0.51 |

UL 2095

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3216** | 2 | 0.247 | 6.27 | 0.020 | 0.51 |
| **M3217** | 3 | 0.261 | 6.63 | 0.020 | 0.51 |



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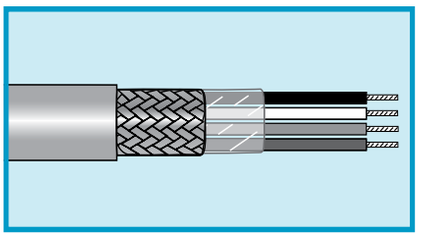
# Manhattan™ Audio/Video Cable

## 300 V Braid Shield, Multiconductor, PVC, PVC



**UL AWM 2095, 2464**
**CSA CMG FT4**

### Applications

- Audio and sound systems experiencing high flexing and needing additional tensile strength

### Operating Temperature

- -20°C to +80°C (AMW)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart D (page 531), unless otherwise noted

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Tinned copper braid shield, 85% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**450 V; Not UL Recognized**

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33218** | 2 | 0.299 | 7.59 | 0.020 | 0.51 |
| **M33219** | 3 | 0.317 | 8.05 | 0.020 | 0.51 |

**450 V; Not UL Recognized**

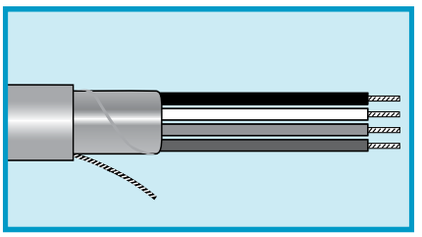
**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33220** | 2 | 0.337 | 8.56 | 0.020 | 0.51 |
| **M33221** | 3 | 0.358 | 9.09 | 0.020 | 0.51 |

# Manhattan™ Audio/Video Cable

## 300 V Foil Shield, Multiconductor, PE or SR-PVC, PVC



**UL AWM 2092, 2093, 2094, 2464, 20253**
**UL CM, CMG, CL2**
**CSA CMG FT4**

### Applications

- Lightweight, low-cost small-diameter cable for audio and sound systems

### Operating Temperature

- -20°C to +80°C (AWM 2464, 20253)
- -20°C to +75°C (CM, CMG)
- -20°C to +60°C (AWM 2092, 2093, 2094)

### Conductor Color Coding

(Unless noted)

- 2-conductor: Black, clear
- 3-conductor: Black, red, clear
- 4-conductor: Black, red, white, green

### Materials

- Polyethylene or semirigid PVC insulation (see tables)
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire (see tables for size)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### Polyethylene Insulation

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approval | Color Code |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | | |
| **M13222** | 2 | 0. 166 | 4.22 | 0.025 | 0.64 | 2092, CM | Black, Clear |

Mutual capacitance: 18 pF/ft (59 pF/m)
Ground capacitance: 32 pF/ft (105 pF/m)

### Semi-Rigid PVC Insulation

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.51 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approval | Color Code |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | | |
| **M39024** | 3 | 0.166 | 4.22 | 0.032 | 0.81 | 2464, CMG | O |
| **M39025** | 4 | 0.174 | 4.42 | 0.032 | 0.81 | 2464, CMG | O |
| **M39026** | 5 | 0.187 | 4.75 | 0.032 | 0.81 | 2464, CMG | O |
| **M39027** | 6 | 0.201 | 5.11 | 0.032 | 0.81 | 2464, CMG | O |
| **M39028** | 7 | 0.201 | 5.11 | 0.032 | 0.81 | 2464, CMG | O |
| **M39029** | 8 | 0.214 | 5.44 | 0.032 | 0.81 | 2464, CMG | O |
| **M39030** | 9 | 0.228 | 5.79 | 0.032 | 0.81 | 2464, CMG | O |
| **M39031** | 10 | 0.247 | 6.27 | 0.032 | 0.81 | 2464, CMG | O |
| **M39032** | 15 | 0.273 | 6.93 | 0.032 | 0.81 | 2464, CMG | F |
| **M39033** | 20 | 0.301 | 7.65 | 0.032 | 0.81 | 2464, CMG | F |
| **M39034** | 25 | 0.335 | 8.51 | 0.032 | 0.81 | 2464, CMG | F |
| **M39035** | 30 | 0.369 | 9.37 | 0.040 | 1.02 | 2464, CMG | F |
| **M39036** | 40 | 0.409 | 10.39 | 0.040 | 1.02 | 2464, CMG | F |
| **M39037** | 50 | 0.456 | 11.58 | 0.045 | 1.14 | 2464, CMG | F |

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190.3 pF/m)

### Polyethylene Insulation

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approvals |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13226** | 2 | 0.178 | 4.52 | 0.025 | 0.64 | 2092, CM |
| **M13227** | 3 | 0.204 | 5.18 | 0.033 | 0.84 | 2093, CM |

Mutual capacitance: 20 pF/ft (65.6 pF/m)
Ground capacitance: 36 pF/ft (118.1 pF/m)



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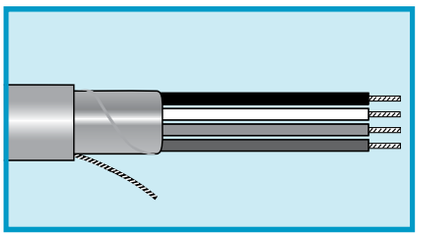
# Manhattan™ Audio/Video Cable

## 300 V Foil Shield, Multiconductor, PE or SR-PVC, PVC



**UL AWM 2092, 2093, 2094, 2464, 20253**
**UL CM, CMG, CL2**
**CSA CMG FT4**

### Applications

- Lightweight, low-cost small-diameter cable for audio and sound systems

### Operating Temperature

- -20°C to +80°C (AWM 2464, 20253)
- -20°C to +75°C (CM, CMG)
- -20°C to +60°C (AWM 2092, 2093, 2094)

### Conductor Color Coding

(Unless noted)

- 2-conductor: Black, clear
- 3-conductor: Black, red, clear
- 4-conductor: Black, red, white, green

### Materials

- Polyethylene or semirigid PVC insulation (see tables)
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire (see tables for size)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### PVC Insulation

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approvals |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13229** | 2 | 0.189 | 4.80 | 0.035 | 0.64 | 2464, CMG |

Mutual capacitance: 48 pF/ft (157.4 pF/m)
Ground capacitance: 86 pF/ft (282.1 pF/m)

Color code: black, red.

### Polyethylene Insulation

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approvals |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13232** | 2 | 0.200 | 5.08 | 0.028 | 0.71 | 2092, CM |
| **M13233** | 3 | 0.221 | 5.61 | 0.033 | 0.84 | 2093, CM |

Mutual capacitance: 23 pF/ft (75.4 pF/m)
Ground capacitance: 41 pF/ft (134.5 pF/m)

### Polyethylene Insulation

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.019 (0.48 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approvals |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13242** | 2 | 0.230 | 5.84 | 0.028 | 0.71 | 2092, CM |
| **M13243** | 3 | 0.253 | 6.43 | 0.033 | 0.84 | 2093, CM |

Mutual capacitance: 24.1 pF/ft (79.1 pF/m)
Ground capacitance: 43 pF/ft (141.1 pF/m)

### SR-PVC Insulation

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approvals |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13244** | 4 | 0.249 | 6.32 | 0.035 | 0.89 | 2464, CMG |

Mutual capacitance: 47 pF/ft (154.2 pF/m)
Ground capacitance: 85 pF/ft (278.9 pF/m)

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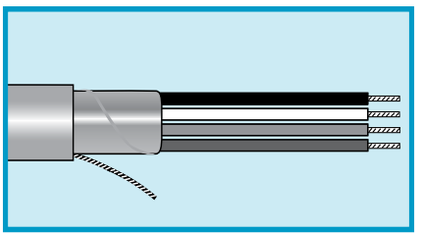
# Manhattan™ Audio/Video Cable

## 300 V Foil Shield, Multiconductor, PE or SR-PVC, PVC



**UL AWM 2092, 2093, 2094, 2464, 20253**
**UL CM, CMG, CL2**
**CSA CMG FT4**

### Applications

- Lightweight, low-cost small-diameter cable for audio and sound systems

### Operating Temperature

- -20°C to +80°C (AWM 2464, 20253)
- -20°C to +75°C (CM, CMG)
- -20°C to +60°C (AWM 2092, 2093, 2094)

### Conductor Color Coding

(Unless noted)

- 2-conductor: Black, clear
- 3-conductor: Black, red, clear
- 4-conductor: Black, red, white, green

### Materials

- Polyethylene or semirigid PVC insulation (see tables)
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire (see tables for size)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### Polyethylene Insulation

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.032 (0.81 mm)
18 AWG (0.81 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approvals |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13247** | 2 | 0.317 | 8.05 | 0.032 | 0.81 | 20253, CM, CL2 |
| **M13248** | 3 | 0.336 | 8.53 | 0.032 | 0.81 | 20253, CM, CL2 |

Mutual capacitance: 20.5 pF/ft (67.2 pF/m)
Ground capacitance: 37 pF/ft (121.4 pF/m)

### Polyethylene Insulation

**14 AWG (2.08 mm²)**

Stranding: 19/0.0147 (19 x 0.37 mm)
Insulation thickness: 0.032 (0.81 mm)
16 AWG (1.31 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approvals |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13249** | 2 | 0.345 | 8.78 | 0.035 | 0.89 | 20253, CM, CL2 |

Mutual capacitance: 22.5 pF/ft (73.8 pF/m)
Ground capacitance: 40 pF/ft (131.2 pF/m)

### Polyethylene Insulation

**12 AWG (3.29 mm²)**

Stranding: 19/0.0185 (19 x 0.47 mm)
Insulation thickness: 0.037 (0.81 mm)
14 AWG (2.08 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Approvals |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M13250** | 2 | 0.421 | 10.69 | 0.040 | 1.02 | 20253, CM, CL2 |

Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 44 pF/ft (144.3 pF/m)



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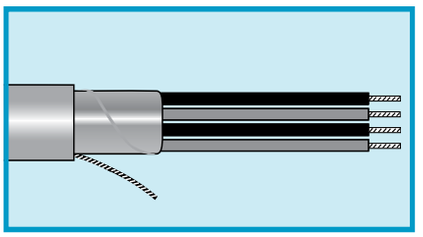
# Manhattan™ Audio/Video Cable

## 300 V Foil Shield, Multiconductor, PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- Audio, broadcast, and sound systems
- Instrumentation

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- 1 Black, 2 Red

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  22 AWG (0.35 mm²) stranded tinned copper drain wire
- Slate PVC jacket

### Availability

Bulk, cut to length
(Minimums may apply)

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M14429** | 2 | 0.199 | 5.05 | 0.032 | 0.81 |

Mutual capacitance: 54 pF/ft (177.2 pF/m)
Ground capacitance: 97 pF/ft (318.2 pF/m)

CA PROP 65 RoHS Compliant

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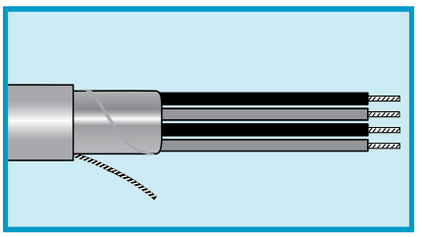
## 300 V Foil Shield, Multiconductor, PP, PVC Miniature



**UL CM**
**CSA CM**

### Applications

- Audio, broadcast, and sound systems
- Instrumentation

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- 1 Black, 2 Red

### Materials

- Solid or stranded tinned copper conductors
- Polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket (except black where noted)

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.008 (0.20 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M14328*** | 2 | 0.124 | 3.15 | 0.020 | 0.51 |

Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

*Black jacket.

**22 AWG (0.35 mm²)**

Stranding: Solid
Insulation thickness: 0.008 (0.20 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4325** | 2 | 0.122 | 3.10 | 0.018 | 0.46 |

Mutual capacitance: 28 pF/ft (91.8 pF/m)
Ground capacitance: 50 pF/ft 164 pF/m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.20 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4326**<br>**M14327*** | 2 | 0.139 | 3.53 | 0.020 | 0.51 |

Mutual capacitance: 28 pF/ft (91.8 pF/m)
Ground capacitance: 50 pF/ft 164 pF/m)

*Black jacket.



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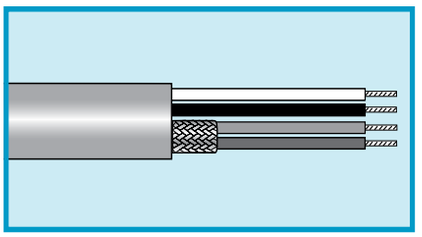
# Manhattan™ Audio/Video Cable

## 300 V Unshielded and Shielded, Multiconductor Composite, PVC/PE/PP, PVC



**UL AWM 2717 (300 V)**
**UL AWM 2094, 2576 (150 V)**
**UL CM, CMG**
**CSA CMG, CMG**

### Operating Temperature

- -20°C to +80°C (AWM 2717)
- -20°C to +75°C (CM, CMG, except where noted)
- -20°C to +60°C (AWM 2094)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC insulation (polypropylene or polyethylene, as noted)
- Aluminum/polyester foil shield, 25% minimum overlap
  Stranded tinned copper drain wire (see tables for size)
- PVC jacket (see tables for colors)

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

### 22 AWG Composite Shielded and Unshielded, UL CM, Slate Jacket

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
22 AWG (0.035 mm²) drain wire (M4475)
24 AWG (0.22 mm²) drain wire (M4451)

| Part No. | Conductors | Nominal Diameter | | Insulation Thickness | | Jacket Thickness | | Configuration | | Insulation |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Inch | mm | Shielded | Unshielded | |
| **M4475** | 3 | 0.190 | 4.83 | 0.013 | 0.33 | 0.032 | 0.81 | 2 Black, White | 1 Brown | PVC |
| **M4451** | 4 | 0.161 | 4.09 | 0.008 | 0.20 | 0.019 | 0.48 | 2 Red, Black | 2 Green, White | PP |

### 20 AWG Composite Shielded and Unshielded, UL CMG, Slate Jacket

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation Thickness: 0.015 (0.38 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | Configuration | | Insulation |
|---|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Shielded | Unshielded | |
| **M4452** | 4 | 0.226 | 5.74 | 0.028 | 0.71 | 2 Red, Black | 2 Green, White | PVC |

### 22 AWG Composite Shielded and Unshielded, AWM 2717 and UL CM, Polypropylene Insulation, Slate Jacket

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Insulation Thickness | | Jacket Thickness | | Configuration | |
|---|---|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Inch | mm | Shielded | Unshielded |
| **M14474** | 2 | 0.243 | 5.17 | 0.010 | 0.25 | 0.028 | 0.71 | 2 Red, Black | – |
| **M14476*** | 2 | 0.220 | 5.59 | 0.008 | 0.20 | 0.030 | 0.81 | 1 Red, Black | 1 Green, White |

*Not CMG

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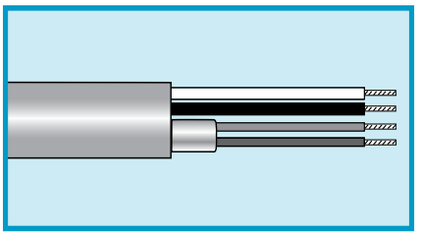
# Manhattan™ Audio/Video Cable

## 300 V Unshielded and Shielded, Multiconductor Composite, PVC/PE/PP, PVC



**UL AWM 2717 (300 V)**
**UL AWM 2094, 2576 (150 V)**
**UL CM, CMG**
**CSA CMG, CMG**

### Operating Temperature

- -20°C to +80°C (AWM 2717)
- -20°C to +75°C (CM, CMG, except where noted)
- -20°C to +60°C (AWM 2094)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC insulation (polypropylene or polyethylene, as noted)
- Aluminum/polyester foil shield, 25% minimum overlap
  Stranded tinned copper drain wire (see tables for size)
- PVC jacket (see tables for colors)

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

### 24/22 AWG Composite Shielded and Unshielded, UL CM, Slate Jacket

| 24 AWG (0.22 mm²) | 22 AWG (0.35 mm²) |
|---|---|
| Stranding: 7/32 (7 x 0.20 mm)<br>22 AWG (0.35 mm²) drain wire (M14477)<br>24 AWG (0.22 mm²) drain wire (M14478) | Stranding: 7/30 (7 x 0.25 mm) |

| Part No. | Conductors | Nominal Diameter | | Insulation Thickness | | Jacket Thickness | | Configuration | | Insulation |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Inch | mm | Shielded | Unshielded | |
| M14477 | 4 (24 AWG) | 0.239 | 6.07 | 0.016 | 0.41 | 0.028 | 0.71 | 4** | — | PVC |
| | 2 (22 AWG) | | | | | | | — | 2<br>Blue, White | PVC |
| M14478* | 8 (24 AWG) | 0.295 | 7.49 | 0.012 | 0.30 | 0.030 | 0.81 | 8† | — | PE |
| | 2 (22 AWG) | | | 0.015 | 0.38 | | | — | 2<br>White, Blue | PVC |

*Cable has two quads of four shielded conductors, each quad individually shielded. One quad has a red shield; the other has a green shield. Not CMG.
**Conductor color coding: Black, green, red, yellow.
†Conductor color coding: Slate, white, blue, green, brown, red, yellow, orange.

### 22 AWG Shielded, UL CM, Brown Jacket

| 22 AWG (0.35 mm²) |
|---|
| Stranding: 7/30 (7 x 0.25 mm)<br>Insulation Thickness 0.008 (0.20 mm)<br>22 AWG (0.35 mm²) drain wire |

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Configuration | | Insulation |
|---|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Shielded | Unshielded | |
| M14475 | 3 | 0.143 | 3.63 | 0.020 | 0.51 | 3* | — | PP |

*Conductor color coding: Black, red, white.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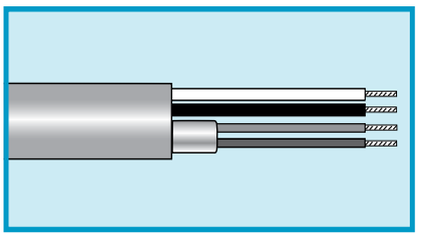
# Manhattan™ Audio/Video Cable

## 300 V Unshielded and Shielded, Multiconductor Composite, PVC/PE, PVC



**UL AWM 2717 (300 V)**
**UL AWM 2094, 2576 (150 V)**
**UL CM, CMG**
**CSA CMG, CMG**

### Operating Temperature

- -20°C to +80°C (AWM 2717)
- -20°C to +75°C (CM, CMG, except where noted)
- -20°C to +60°C (AWM 2094)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC or PE insulation
- Aluminum/polyester foil shield, 25% minimum overlap
  Stranded tinned copper drain wire (see tables for size)
- PVC jacket (see tables for colors)

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

### 22 and 18 AWG Unshielded, UL CM Only, Slate Jacket

| 22 AWG (0.35 mm²) | | | | 18 AWG (0.81 mm²) | | |
|---|---|---|---|---|---|---|
| Stranding: 7/30 (7 x 0.25 mm)<br>Insulation thickness: 0.010 (0.25 mm) | | | | Stranding: 16/30 (16 x 0.25 mm)<br>Insulation thickness: 0.018 (0.46 mm) | | |
| **Part No.** | **Conductors*** | | **Nominal Diameter** | | **Jacket Thickness** | | **Insulation** |
| | 22 AWG | 18 AWG | Inch | mm | Inch | mm | |
| **M4406** | 4 | 2 | 0.255 | 6.48 | 0.032 | 0.81 | PVC |

Conductor color coding:
22 AWG: Red, green, brown, blue.
18 AWG: Black, white.

### 20 Foil Shielded and 18 AWG Unshielded, AWM 2094, CM, Beige Jacket

| 20 AWG (0.56 mm²) | | | | 18 AWG (0.81 mm²) | | |
|---|---|---|---|---|---|---|
| Stranding: 7/28 (7 x 0.32 mm)<br>Insulation thickness: 0.20 (0.50 mm)<br>22 AWG (0.35 mm²) drain wire | | | | Stranding: 16/30 (16 x 0.25 mm)<br>Insulation thickness: 0.019 (0.48 mm) | | |
| **Part No.** | **Conductors** | | **Nominal Diameter** | | **Jacket Thickness** | | **Insulation** |
| | 20 AWG | 18 AWG | Inch | mm | Inch | mm | |
| **M13291** | 2 | 2 | 0.264 | 6.71 | 0.032 | 0.81 | PE |

Conductor color coding:
22 AWG: Black, red.
18 AWG: Green, white.

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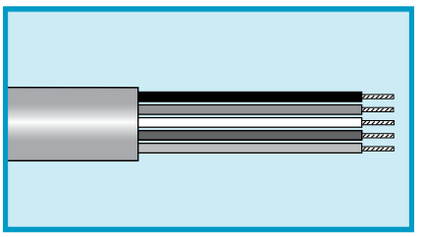
## 300 V Unshielded, Multiconductor, PVC, PVC



**UL CMR**
**CSA CMR**

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Brown, 6 Blue, 7 Orange, 8 Yellow, 9 Violet, 10 Slate

### Materials

- Stranded bare copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213302** | 2 | 0.130 | 3.30 | 0.015 | 0.38 |
| **M213303** | 3 | 0.138 | 3.51 | 0.015 | 0.38 |
| **M213304** | 4 | 0.151 | 3.84 | 0.015 | 0.38 |
| **M213305** | 5 | 0.166 | 4.22 | 0.015 | 0.38 |
| **M213308** | 8 | 0.196 | 4.98 | 0.015 | 0.38 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213402** | 2 | 0.146 | 3.71 | 0.015 | 0.38 |
| **M213403** | 3 | 0.155 | 3.94 | 0.015 | 0.38 |
| **M213404** | 4 | 0.170 | 4.32 | 0.015 | 0.38 |

**18 AWG (0.89 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213502** | 2 | 0.166 | 4.22 | 0.015 | 0.38 |
| **M213503** | 3 | 0.177 | 4.50 | 0.015 | 0.38 |
| **M213504** | 4 | 0.195 | 4.95 | 0.015 | 0.38 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213572** | 2 | 0.188 | 4.77 | 0.015 | 0.38 |
| **M213573** | 3 | 0.200 | 5.08 | 0.015 | 0.38 |
| **M213574** | 4 | 0.221 | 5.61 | 0.015 | 0.38 |

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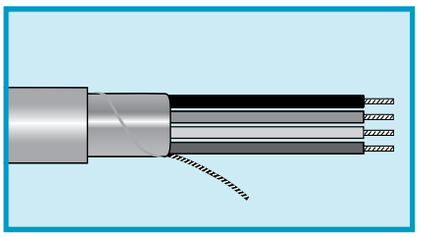
# Manhattan™ Security and Data Cable

## 300 V Foil Shielded, Multiconductor, PVC, PVC



**UL CMR**
**CSA CMR**

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Brown, 6 Blue, 7 Orange, 8 Yellow, 9 Violet, 10 Slate

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire one even AWG size smaller than conductor (except 24 AWG, which is the same size as the conductors)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M239023** | 2 | 0.122 | 3.10 | 0.015 | 0.38 |
| **M239024** | 3 | 0.129 | 3.28 | 0.015 | 0.38 |
| **M239025** | 4 | 0.140 | 3.56 | 0.015 | 0.38 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M113226** | 2 | 0.134 | 3.40 | 0.015 | 0.38 |
| **M113227** | 3 | 0.142 | 3.61 | 0.015 | 0.38 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M113232** | 2 | 0.150 | 3.81 | 0.015 | 0.38 |
| **M113233** | 3 | 0.159 | 4.04 | 0.015 | 0.38 |

**18 AWG (0.89 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M113242** | 2 | 0.170 | 4.32 | 0.015 | 0.38 |
| **M113243** | 3 | 0.181 | 4.60 | 0.015 | 0.38 |
| **M113244** | 4 | 0.199 | 5.05 | 0.015 | 0.38 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (7 x 0.30 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M113247** | 2 | 0.192 | 4.88 | 0.015 | 0.38 |
| **M113248** | 3 | 0.204 | 5.18 | 0.015 | 0.38 |

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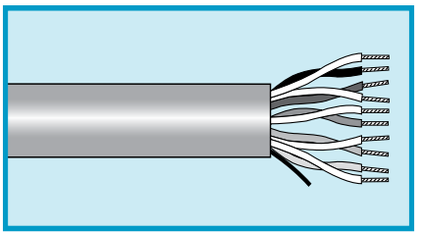
300 V Unshielded, Multipair, PVC, PVC



**UL CMR**
**CSA CMR**

## Operating Temperature

- -20°C to +75°C

## Conductor Color Coding

- Chart A1 (page 528)

## Materials

- Stranded bare copper conductors
- PVC insulation
- Slate PVC jacket

## Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### 22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M2210** | 2 | 0.194 | 4.93 | 0.015 | 0.38 |
| **M2211** | 3 | 0.207 | 5.26 | 0.015 | 0.38 |
| **M2212** | 4 | 0.228 | 5.79 | 0.015 | 0.38 |

### 20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M2222** | 2 | 0.220 | 5.59 | 0.015 | 0.38 |
| **M2223** | 3 | 0.235 | 5.97 | 0.015 | 0.38 |
| **M2224** | 4 | 0.260 | 6.60 | 0.015 | 0.38 |
| **M2226** | 6 | 0.317 | 8.05 | 0.015 | 0.38 |

### 18 AWG (0.89 mm²)

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M2215** | 2 | 0.253 | 6.43 | 0.015 | 0.38 |
| **M2216** | 3 | 0.270 | 6.86 | 0.015 | 0.38 |
| **M2217** | 4 | 0.300 | 7.62 | 0.015 | 0.38 |



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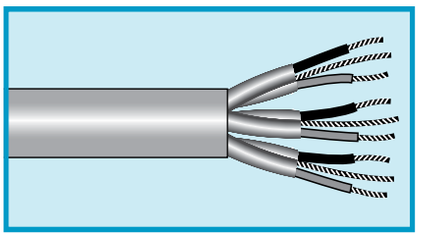
# Manhattan™ Security and Data Cable

## 300 V, Individually Foil Shielded Pairs, Multipair, PVC, PVC



**UL CMR**
**CSA CMR**

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- Chart A1 (page 528)

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213102** | 2 | 0.229 | 5.82 | 0.020 | 0.51 |
| **M213103** | 3 | 0.244 | 6.20 | 0.020 | 0.51 |
| **M213104** | 4 | 0.269 | 6.83 | 0.020 | 0.51 |
| **M213106** | 6 | 0.325 | 8.26 | 0.020 | 0.51 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213142** | 2 | 0.257 | 6.53 | 0.020 | 0.51 |
| **M213143** | 3 | 0.274 | 6.96 | 0.020 | 0.51 |
| **M213144** | 4 | 0.303 | 7.70 | 0.020 | 0.51 |
| **M213146** | 6 | 0.367 | 9.32 | 0.020 | 0.51 |

**18 AWG (0.89 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213172** | 2 | 0.292 | 7.42 | 0.020 | 0.51 |
| **M213173** | 3 | 0.312 | 7.92 | 0.020 | 0.51 |
| **M213174** | 4 | 0.345 | 8.76 | 0.020 | 0.51 |
| **M213176** | 6 | 0.420 | 10.67 | 0.020 | 0.51 |

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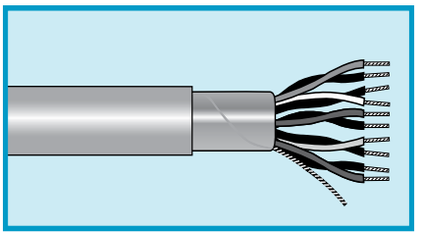
# Manhattan™ Security and Data Cable

## 300 V Overall Foil Shield, Multipair, PVC, PVC



**UL CMR**
**CSA CMR**

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- Chart A1 (page 528)

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire one even AWG size smaller than conductor (except 24 AWG, which is the same size as the conductors)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213191** | 2 | 0.178 | 4.52 | 0.015 | 0.38 |
| **M213192** | 3 | 0.190 | 4.83 | 0.015 | 0.38 |
| **M213193** | 4 | 0.209 | 5.31 | 0.015 | 0.38 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213222** | 2 | 0.198 | 5.03 | 0.015 | 0.38 |
| **M213223** | 3 | 0.211 | 5.36 | 0.015 | 0.38 |
| **M213224** | 4 | 0.232 | 5.89 | 0.015 | 0.38 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213202** | 2 | 0.224 | 5.69 | 0.015 | 0.38 |
| **M213203** | 3 | 0.239 | 6.07 | 0.015 | 0.38 |
| **M213204** | 4 | 0.264 | 6.71 | 0.015 | 0.38 |
| **M213206** | 6 | 0.331 | 8.41 | 0.020 | 0.51 |

**18 AWG (0.89 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M213182** | 2 | 0.257 | 6.53 | 0.015 | 0.38 |
| **M213183** | 3 | 0.274 | 6.96 | 0.015 | 0.38 |
| **M213184** | 4 | 0.304 | 7.72 | 0.015 | 0.38 |



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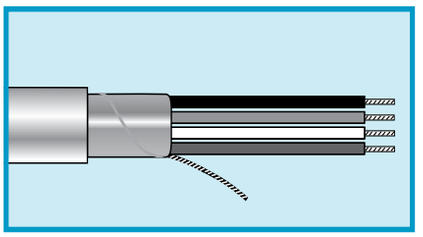
# Manhattan™ Plenum Cable

## 300 V Overall Foil Shield, Multiconductor, PVC, PVC, Plenum Rated



**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Brown, 6 Blue, 7 Orange, 8 Yellow, 9 Violet, 10 Slate

### Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- White plenum-rated PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M244837** | 2 | 0.122 | 3.10 | 0.015 | 0.38 |
| **M244838** | 3 | 0.129 | 3.28 | 0.015 | 0.38 |
| **M244839** | 4 | 0.140 | 3.56 | 0.015 | 0.38 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M244800** | 2 | 0.134 | 3.40 | 0.015 | 0.38 |
| **M244801** | 3 | 0.142 | 3.61 | 0.015 | 0.38 |
| **M244802** | 4 | 0.155 | 3.94 | 0.015 | 0.38 |
| **M244804** | 6 | 0.178 | 4.52 | 0.015 | 0.38 |
| **M244806** | 8 | 0.200 | 5.08 | 0.015 | 0.38 |
| **M244808** | 10 | 0.234 | 5.94 | 0.015 | 0.38 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M244816** | 2 | 0.150 | 3.81 | 0.015 | 0.38 |
| **M244817** | 3 | 0.159 | 4.04 | 0.015 | 0.38 |
| **M244818** | 4 | 0.174 | 4.42 | 0.015 | 0.38 |

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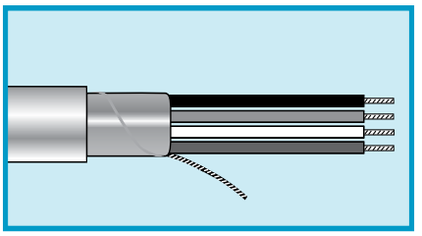
# Manhattan™ Plenum Cable

## 300 V Overall Foil Shield, Multiconductor, PVC, PVC, Plenum Rated



**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Brown, 6 Blue, 7 Orange, 8 Yellow, 9 Violet, 10 Slate

### Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- White plenum-rated PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.89 mm²)**

Stranding: 7/26 (16 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M244825** | 2 | 0.146 | 3.71 | 0.015 | 0.38 |
| **M244826** | 3 | 0.181 | 4.60 | 0.015 | 0.38 |
| **M244827** | 4 | 0.199 | 5.05 | 0.015 | 0.38 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.010 (0.25 mm)
18 AWG (0.89 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M244834** | 2 | 0.192 | 4.88 | 0.015 | 0.38 |
| **M244835** | 3 | 0.204 | 5.18 | 0.015 | 0.38 |
| **M244836** | 4 | 0.225 | 5.71 | 0.015 | 0.38 |



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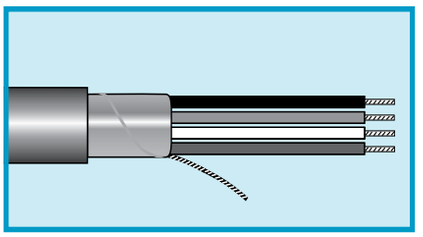
# Manhattan™ Plenum Cable

## 300 V Overall Foil Shield, Multiconductor, FEP, PVDF, Plenum Rated



**UL CMR**
**CSA CMP FT6**

### Operating Temperature

- -40°C to +125°C

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Red PVDF jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M413226** | 2 | 0.118 | 3.00 | 0.015 | 0.38 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.007 (0.18 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M413242** | 2 | 0.162 | 4.11 | 0.015 | 0.38 |

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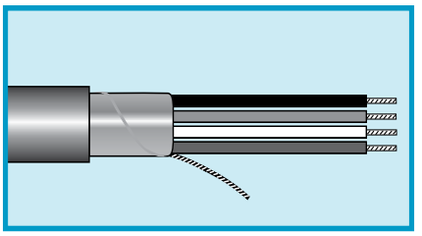
# Manhattan™ Plenum Cable

## 300 V Overall Foil Shield, Multiconductor, FEP, FEP, Plenum Rated



**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -20°C to +150°C

### Conductor Color Coding

- Chart F (page 532), unless noted

### Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Slate FEP jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M64837** | 2 | 0.096 | 2.44 | 0.010 | 0.25 |
| **M64838** | 3 | 0.102 | 2.59 | 0.010 | 0.25 |
| **M64839** | 4 | 0.111 | 2.82 | 0.010 | 0.25 |
| **M64840** | 5 | 0.122 | 3.10 | 0.010 | 0.25 |
| **M64841** | 6 | 0.133 | 3.38 | 0.010 | 0.25 |
| **M64842** | 7 | 0.133 | 3.38 | 0.010 | 0.25 |
| **M64843** | 8 | 0.168 | 4.26 | 0.012 | 0.30 |
| **M64844** | 9 | 0.159 | 4.04 | 0.012 | 0.30 |
| **M64845** | 10 | 0.172 | 4.37 | 0.012 | 0.30 |
| **M64846** | 12 | 0.178 | 4.52 | 0.012 | 0.30 |
| **M64847** | 15 | 0.193 | 4.90 | 0.012 | 0.30 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M64800** | 2 | 0.108 | 2.74 | 0.010 | 0.25 |
| **M64801** | 3 | 0.115 | 2.92 | 0.010 | 0.25 |
| **M64802** | 4 | 0.126 | 3.20 | 0.010 | 0.25 |
| **M64803** | 5 | 0.138 | 3.51 | 0.010 | 0.25 |
| **M64804** | 6 | 0.151 | 3.84 | 0.010 | 0.25 |
| **M64805** | 7 | 0.151 | 3.84 | 0.010 | 0.25 |
| **M64806** | 8 | 0.168 | 4.27 | 0.012 | 0.30 |
| **M64807** | 9 | 0.181 | 4.60 | 0.012 | 0.30 |
| **M64808** | 10 | 0.196 | 4.98 | 0.012 | 0.30 |
| **M64809** | 12 | 0.203 | 5.16 | 0.012 | 0.30 |
| **M64812** | 15 | 0.221 | 5.61 | 0.012 | 0.30 |



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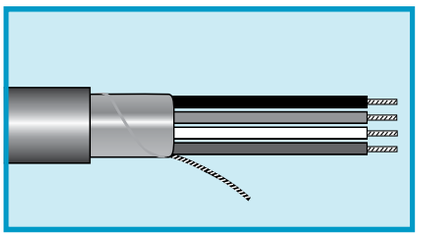
# Manhattan™ Plenum Cable

## 300 V Overall Foil Shield, Multiconductor, FEP, FEP, Plenum Rated



**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -20°C to +150°C

### Conductor Color Coding

- Chart F (page 532), unless noted

### Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Slate FEP jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**-80 to +150°C Temperature Rating, Color Code D**

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M613226** | **1** | 0.118 | 2.99 | 0.015 | 0.38 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.006 (0.15 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M64816** | 2 | 0.124 | 3.15 | 0.010 | 0.25 |
| **M64817** | 3 | 0.132 | 3.35 | 0.010 | 0.25 |
| **M64818** | 4 | 0.145 | 3.68 | 0.010 | 0.25 |
| **M64820** | 6 | 0.175 | 4.45 | 0.010 | 0.25 |
| **M64822** | 8 | 0.194 | 4.93 | 0.012 | 0.30 |
| **M64824** | 10 | 0.228 | 5.79 | 0.012 | 0.30 |

**-80 to +150°C Temperature Rating, Color Code D**

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.007 (0.18 mm)
20 AWG (0.60 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M613242** | 2 | 0.162 | 4.11 | 0.015 | 0.38 |

**18 AWG (0.89 mm²)**

Stranding: 7/26 (16 x 0.40 mm)
Insulation thickness: 0.009 (0.23 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M64825** | 2 | 0.160 | 4.06 | 0.010 | 0.25 |
| **M64826** | 3 | 0.166 | 4.22 | 0.010 | 0.25 |
| **M64827** | 4 | 0.188 | 4.78 | 0.012 | 0.30 |
| **M64829** | 6 | 0.227 | 5.77 | 0.012 | 0.30 |
| **M64831** | 8 | 0.247 | 6.27 | 0.012 | 0.30 |

**16 AWG (1.43 mm²)**

Stranding: 7/24 (7 x 0.51 mm)
Insulation thickness: 0.009 (0.23 mm)
18 AWG (0.89 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M64834** | 2 | 0.180 | 4.57 | 0.010 | 0.25 |
| **M64835** | 3 | 0.196 | 4.98 | 0.012 | 0.30 |
| **M64836** | 4 | 0.217 | 5.51 | 0.012 | 0.30 |

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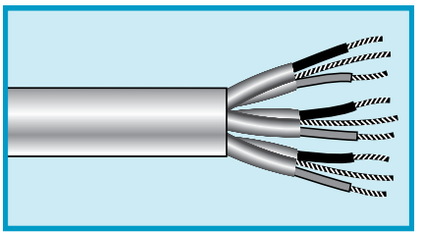
# Manhattan™ Plenum Cable

## 300 V Individually Foil Shielded Pairs, Multipair, PVC, PVC Plenum Rated



**UL CMP**
**CSA CMP**

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- Chart A1 (page 528)
  (Part number M243473: Black, white, green/yellow)

### Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire (see tables for size)
- White plenum-rated PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.007 (0.18mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M44473** | 2 | 0.192 | 4.88 | 0.015 | 0.38 |
| **M43103** | 3 | 0.211 | 5.36 | 0.015 | 0.38 |
| **M43106** | 6 | 0.301 | 7.65 | 0.024 | 0.60 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M243473** | 2 | 0.219 | 5.56 | 0.015 | 0.38 |
| **M243103** | 3 | 0.227 | 5.77 | 0.015 | 0.38 |
| **M243106** | 6 | 0.316 | 8.03 | 0.020 | 0.51 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M243142** | 2 | 0.241 | 6.12 | 0.015 | 0.38 |
| **M243143** | 3 | 0.258 | 6.55 | 0.015 | 0.38 |
| **M243144** | 4 | 0.295 | 7.49 | 0.020 | 0.51 |

**18 AWG (0.89 mm²)**

Stranding: 7/26 (16 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M243172** | 2 | 0.276 | 7.01 | 0.015 | 0.38 |
| **M243173** | 3 | 0.295 | 7.49 | 0.015 | 0.38 |



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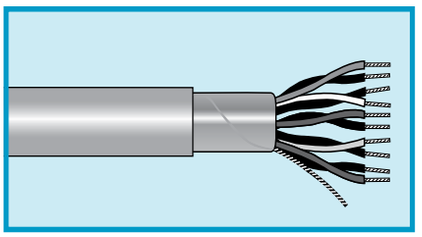
# Manhattan™ Plenum Cable

## 300 V Overall Foil Shield, Multipair, FEP, PVC, Plenum Rated



**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -20°C to +75°C

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire (see tables for size)
- Slate plenum-rated PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M52893** | 1 | 0.155 | 3.94 | 0.015 | 0.38 |
| **M52894** | 2 | 0.155 | 3.94 | 0.015 | 0.38 |
| **M52895** | 3 | 0.164 | 4.17 | 0.015 | 0.38 |
| **M52896** | 4 | 0.180 | 4.57 | 0.015 | 0.38 |
| **M52897** | 5 | 0.197 | 5.00 | 0.015 | 0.38 |
| **M52898** | 6 | 0.215 | 5.46 | 0.015 | 0.38 |
| **M52900** | 9 | 0.252 | 6.40 | 0.015 | 0.38 |
| **M52902** | 12.5 | 0.282 | 7.16 | 0.015 | 0.38 |

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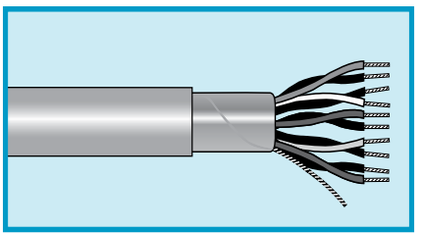
# Manhattan™ Plenum Cable

## 300 V Overall Foil Shield, Multipair, FEP, FEP, Plenum Rated



**UL CMP**
**CSA CMP**

### Operating Temperature

- -80°C to +150°C

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Stranded bare copper pairs
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire sized the same as conductors
- Red FEP jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.006 (0.15 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M613190** | 1 | 0.155 | 3.94 | 0.015 | 0.38 |
| **M613191** | 2 | 0.155 | 3.94 | 0.015 | 0.38 |
| **M613192** | 3 | 0.164 | 4.17 | 0.015 | 0.38 |
| **M613193** | 4 | 0.180 | 4.57 | 0.015 | 0.38 |
| **M613194** | 5 | 0.197 | 5.00 | 0.015 | 0.38 |



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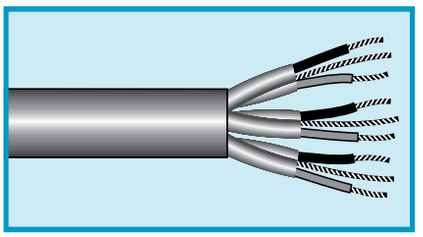
# Manhattan™ Plenum Cable

## 300 V Individually Foil Shielded Pairs, Multipair, FEP, PVDF Plenum Rated



**UL CMP**
**CSA CMP**

### Operating Temperature

- -20°C to +150°C
- -20°C to +75°C (CMP)

### Conductor Color Coding

- Chart M (page 530)

### Materials

- Stranded bare copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire sized the same as conductors
- Slate PVDF jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M42891** | 2 | 0.192 | 4.88 | 0.015 | 0.38 |
| **M42892** | 3 | 0.205 | 5.21 | 0.015 | 0.38 |
| **M42893** | 4 | 0.244 | 6.20 | 0.015 | 0.38 |
| **M42894** | 5 | 0.250 | 6.35 | 0.015 | 0.38 |
| **M42895** | 6 | 0.274 | 6.96 | 0.015 | 0.38 |
| **M42896** | 7 | 0.274 | 6.96 | 0.015 | 0.38 |
| **M42897** | 9 | 0.325 | 8.26 | 0.015 | 0.38 |
| **M42898** | 12 | 0.367 | 9.32 | 0.015 | 0.38 |
| **M42899** | 18 | 0.446 | 11.33 | 0.020 | 0.51 |

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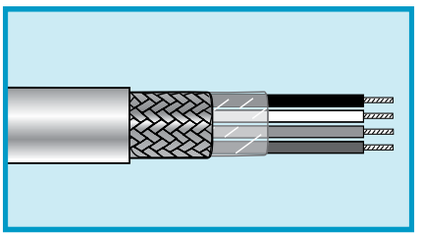
# Manhattan™ Control Cable

## 600 V Braid Shield, Multiconductor, PVC, PVC



**MIL-DTL-16878/1 and /17 Conductors (Types B and B/N)**
**UL VW-1**

### Operating Temperature

- -55°C to +105°C

### Conductor Color Coding

- Chart P (page 535) unless otherwise noted

### Materials

- Stranded tinned copper conductors
- PVC or PVC/nylon insulation
- Tinned copper braid shield, 90% coverage
- White PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### MIL-DTL-16878/1 Conductors

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M1411*** | 1 | 0.073 | 1.85 | 0.010 | 0.25 | P |
| **M1412** | 2 | 0.116 | 2.95 | 0.012 | 0.30 | P |
| **M1604** | 4 | 0.132 | 3.35 | 0.013 | 0.33 | F |
| **M1605** | 5 | 0.144 | 3.66 | 0.014 | 0.36 | F |
| **M1606** | 6 | 0.157 | 3.99 | 0.015 | 0.38 | F |
| **M1608** | 8 | 0.175 | 4.45 | 0.017 | 0.43 | F |
| **M1610** | 10 | 0.201 | 5.11 | 0.018 | 0.46 | F |
| **M1612** | 12 | 0.210 | 5.33 | 0.020 | 0.51 | F |

*Black jacket. All others slate.

### MIL-DTL-16878/17 Conductors

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1421** | 1 | 0.083 | 2.11 | 0.010 | 0.25 |
| **M1422** | 2 | 0.140 | 3.56 | 0.014 | 0.36 |
| **M1423** | 3 | 0.147 | 3.73 | 0.014 | 0.36 |

### MIL-DTL-16878/17 Conductors

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1431** | 1 | 0.093 | 2.36 | 0.010 | 0.25 |
| **M1432** | 2 | 0.156 | 3.96 | 0.016 | 0.41 |
| **M1433** | 3 | 0.164 | 4.17 | 0.016 | 0.41 |

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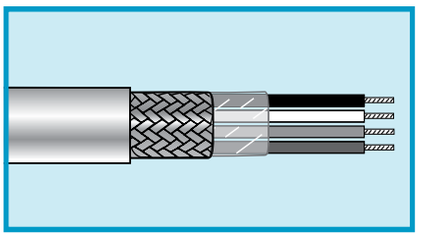
# Manhattan™ Control Cable

## 600 V Braid Shield, Multiconductor, PVC, PVC



**MIL-DTL-16878/1 and /17 Conductors (Types B and B/N)**
**UL VW-1**

### Operating Temperature

- -55°C to +105°C

### Conductor Color Coding

- Chart P (page 535) unless otherwise noted

### Materials

- Stranded tinned copper conductors
- PVC or PVC/nylon insulation
- Tinned copper braid shield, 90% coverage
- White PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

MIL-DTL-16878/17 Conductors

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M1441** | 1 | 0.100 | 2.54 | 0.010 | 0.25 | P |
| **M1442** | 2 | 0.178 | 4.52 | 0.020 | 0.51 | P |
| **M1443** | 3 | 0.187 | 4.75 | 0.020 | 0.51 | P |
| **M1444** | 4 | 0.202 | 5.13 | 0.020 | 0.51 | P |
| **M1644** | 4 | 0.203 | 5.16 | 0.019 | 0.48 | F |
| **M1645** | 5 | 0.222 | 5.64 | 0.020 | 0.51 | F |
| **M1646** | 6 | 0.240 | 6.10 | 0.020 | 0.51 | F |
| **M1648** | 8 | 0.268 | 6.81 | 0.025 | 0.64 | F |
| **M1650*** | 10 | 0.309 | 7.85 | 0.026 | 0.66 | F |

*Black jacket. All others slate.

MIL-DTL-16878/17 Conductors

**20 AWG (0.62 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1451** | 1 | 0.108 | 2.74 | 0.010 | 0.25 |
| **M1452** | 2 | 0.194 | 4.93 | 0.020 | 0.51 |
| **M1453** | 3 | 0.214 | 5.44 | 0.025 | 0.64 |
| **M1454** | 4 | 0.232 | 5.89 | 0.025 | 0.64 |

MIL-DTL-16878/17 Conductors

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1461** | 1 | 0.122 | 3.10 | 0.012 | 0.30 |
| **M1462** | 2 | 0.216 | 5.49 | 0.021 | 0.53 |
| **M1463** | 3 | 0.230 | 5.84 | 0.022 | 0.56 |

MIL-DTL-16878/17 Conductors

**16 AWG (1.23 mm²)**

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.011 (0.28 mm) PVC/0.004 (0.10 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1471** | 1 | 0.144 | 3.66 | 0.018 | 0.46 |
| **M1472** | 2 | 0.240 | 6.10 | 0.023 | 0.58 |
| **M1473** | 3 | 0.257 | 6.53 | 0.025 | 0.64 |
| **M1474** | 4 | 0.280 | 7.11 | 0.025 | 0.64 |

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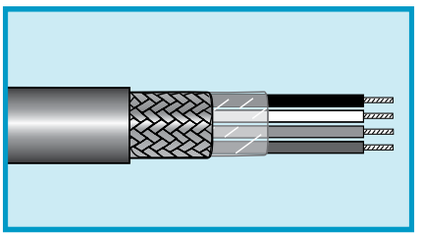
## 1000 V Braid Shield, Multiconductor, PVC, PVC



**MIL-DTL-16878/2 and /18 Conductors (Types C and C/N)**
**UL VW-1**

### Operating Temperature

- -55°C to +105°C

### Conductor Color Coding

- Chart F (page 532)

### Materials

- Stranded tinned copper conductors
- PVC or PVC/nylon insulation
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### MIL-DTL-16878/2 Conductors

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1704** | 4 | 0.269 | 6.83 | 0.023 | 0.58 |
| **M1705** | 5 | 0.297 | 7.54 | 0.025 | 0.64 |
| **M1706** | 6 | 0.332 | 8.43 | 0.030 | 0.76 |
| **M1708** | 8 | 0.362 | 9.19 | 0.032 | 0.81 |
| **M1710** | 10 | 0.423 | 10.74 | 0.035 | 0.89 |
| **M1712** | 12 | 0.442 | 11.23 | 0.035 | 0.89 |
| **M1714** | 14 | 0.473 | 12.01 | 0.040 | 1.02 |
| **M1716** | 16 | 0.509 | 12.93 | 0.046 | 1.17 |

### MIL-DTL-16878/18 Conductors

**16 AWG (1.23 mm²)**

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.017 (0.43 mm) PVC/0.004 (0.10 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1764** | 4 | 0.324 | 8.23 | 0.031 | 0.79 |
| **M1765** | 5 | 0.357 | 9.07 | 0.033 | 0.84 |
| **M1766** | 6 | 0.390 | 9.91 | 0.035 | 0.89 |
| **M1768** | 8 | 0.431 | 10.95 | 0.040 | 1.02 |
| **M1772** | 12 | 0.532 | 13.51 | 0.047 | 1.19 |
| **M1776** | 16 | 0.598 | 15.19 | 0.053 | 1.35 |
| **M1779** | 19 | 0.636 | 16.15 | 0.057 | 1.45 |
| **M1787** | 27 | 0.768 | 19.51 | 0.067 | 1.70 |

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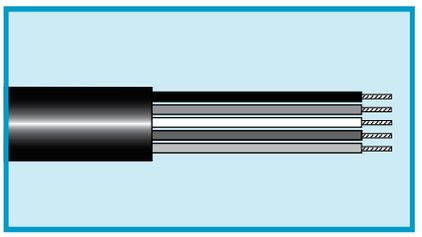
# Manhattan™ Control Cable

## 600 V Unshielded, Multiconductor, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart J (page 533)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3800** | 2 | 0.185 x 0.273 | 4.70 x 6.93 | 0.047 | 1.19 |
| **M3801** | 3 | 0.287 | 7.29 | 0.047 | 1.19 |
| **M3802** | 4 | 0.310 | 7.87 | 0.047 | 1.19 |
| **M3803** | 5 | 0.336 | 8.53 | 0.047 | 1.19 |
| **M3804** | 6 | 0.362 | 9.19 | 0.047 | 1.19 |
| **M3805** | 7 | 0.362 | 9.19 | 0.047 | 1.19 |
| **M3806** | 8 | 0.390 | 9.91 | 0.047 | 1.19 |
| **M3807** | 9 | 0.417 | 10.59 | 0.047 | 1.19 |
| **M3808** | 10 | 0.449 | 11.40 | 0.047 | 1.19 |
| **M3810** | 12 | 0.463 | 11.76 | 0.047 | 1.19 |
| **M3815** | 15 | 0.533 | 13.54 | 0.063 | 1.60 |
| **M3819** | 19 | 0.569 | 14.45 | 0.063 | 1.60 |
| **M3822** | 24 | 0.646 | 16.41 | 0.063 | 1.60 |
| **M3821** | 25 | 0.657 | 16.69 | 0.063 | 1.60 |
| **M3823** | 30 | 0.694 | 17.63 | 0.063 | 1.60 |
| **M3825** | 37 | 0.745 | 18.92 | 0.063 | 1.60 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3826** | 2 | 0.197 x 0.297 | 5.00 x 7.54 | 0.047 | 1.19 |
| **M3828** | 3 | 0.310 | 7.87 | 0.047 | 1.19 |
| **M3829** | 4 | 0.339 | 8.61 | 0.047 | 1.19 |
| **M3830** | 5 | 0.368 | 9.35 | 0.047 | 1.19 |
| **M3831** | 6 | 0.398 | 10.11 | 0.047 | 1.19 |
| **M3832** | 7 | 0.398 | 10.11 | 0.047 | 1.19 |
| **M3833** | 8 | 0.429 | 10.90 | 0.047 | 1.19 |
| **M3834** | 9 | 0.461 | 11.71 | 0.047 | 1.19 |
| **M3835** | 10 | 0.497 | 12.62 | 0.047 | 1.19 |
| **M3837** | 12 | 0.545 | 13.84 | 0.063 | 1.60 |
| **M3838** | 15 | 0.588 | 14.94 | 0.063 | 1.60 |
| **M3839** | 19 | 0.630 | 16.00 | 0.063 | 1.60 |
| **M3840** | 24 | 0.717 | 18.21 | 0.063 | 1.60 |
| **M3843** | 25 | 0.729 | 18.52 | 0.063 | 1.60 |
| **M3841** | 30 | 0.770 | 19.56 | 0.063 | 1.60 |
| **M3842** | 37 | 0.869 | 22.07 | 0.083 | 2.11 |

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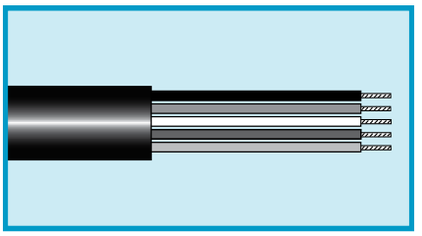
## 600 V Unshielded, Multiconductor, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart J (page 533)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (7 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3845** | 2 | 0.212 x 0.32 | 5.38 x 8.31 | 0.047 | 1.19 |
| **M3847** | 3 | 0.345 | 8.76 | 0.047 | 1.19 |
| **M3848** | 4 | 0.375 | 9.53 | 0.047 | 1.19 |
| **M3849** | 5 | 0.409 | 10.39 | 0.047 | 1.19 |
| **M3850** | 6 | 0.444 | 11.28 | 0.047 | 1.19 |
| **M3851** | 7 | 0.444 | 11.28 | 0.047 | 1.19 |
| **M3852** | 8 | 0.479 | 12.17 | 0.047 | 1.19 |
| **M3853** | 9 | 0.547 | 13.89 | 0.063 | 1.60 |
| **M3854** | 10 | 0.589 | 14.96 | 0.063 | 1.60 |
| **M3856** | 12 | 0.607 | 15.42 | 0.063 | 1.60 |
| **M3857** | 15 | 0.657 | 16.69 | 0.063 | 1.60 |
| **M3858** | 19 | 0.705 | 17.91 | 0.063 | 1.60 |
| **M3859** | 24 | 0.805 | 20.45 | 0.063 | 1.60 |
| **M3862** | 25 | 0.859 | 21.82 | 0.083 | 2.11 |
| **M3860** | 30 | 0.907 | 23.04 | 0.083 | 2.11 |
| **M3861** | 37 | 0.974 | 24.74 | 0.083 | 2.11 |

**12 AWG (3.30 mm²)**

Stranding: 7/0.0305 (7 x 0.78 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3865** | 2 | 0.231 x 0.365 | 5.87 x 9.27 | 0.047 | 1.19 |
| **M3867** | 3 | 0.386 | 9.80 | 0.047 | 1.19 |
| **M3868** | 4 | 0.421 | 10.69 | 0.047 | 1.19 |
| **M3869** | 5 | 0.460 | 11.68 | 0.047 | 1.19 |
| **M3870** | 6 | 0.501 | 12.73 | 0.047 | 1.19 |
| **M3871** | 7 | 0.501 | 12.73 | 0.047 | 1.19 |
| **M3872** | 8 | 0.575 | 14.61 | 0.063 | 1.60 |
| **M3873** | 9 | 0.617 | 15.67 | 0.063 | 1.60 |
| **M3874** | 10 | 0.665 | 16.89 | 0.063 | 1.60 |
| **M3876** | 12 | 0.686 | 17.42 | 0.063 | 1.60 |
| **M3877** | 15 | 0.744 | 18.90 | 0.063 | 1.60 |
| **M3878** | 16 | 0.759 | 19.28 | 0.063 | 1.60 |
| **M3879** | 19 | 0.800 | 20.32 | 0.063 | 1.60 |
| **M3880** | 24 | 0.957 | 24.31 | 0.083 | 2.11 |
| **M3883** | 25 | 0.973 | 24.71 | 0.083 | 2.11 |
| **M3881** | 30 | 1.029 | 26.14 | 0.083 | 2.11 |
| **M3882** | 37 | 1.107 | 28.12 | 0.083 | 2.11 |



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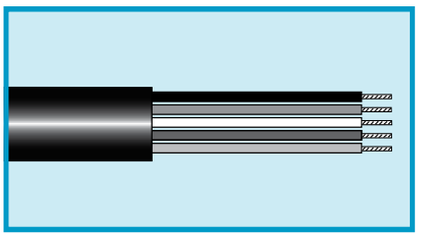
# Manhattan™ Control Cable

## 600 V Unshielded, Multiconductor, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart J (page 533)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**10 AWG (5.26 mm²)**

Stranding: 7/0.0385 (7 x 0.98 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3902** | 2 | 0.267 x 0.365 | 6.78 x 9.27 | 0.047 | 1.19 |
| **M3903** | 3 | 0.464 | 11.79 | 0.047 | 1.19 |
| **M3904** | 4 | 0.540 | 13.72 | 0.063 | 1.60 |
| **M3905** | 5 | 0.590 | 14.99 | 0.063 | 1.60 |
| **M3906** | 6 | 0.641 | 16.28 | 0.063 | 1.60 |
| **M3907** | 7 | 0.641 | 16.28 | 0.063 | 1.60 |
| **M3908** | 8 | 0.694 | 17.63 | 0.063 | 1.60 |
| **M3910** | 9 | 0.748 | 19.00 | 0.063 | 1.60 |
| **M3911** | 10 | 0.809 | 20.55 | 0.063 | 1.60 |
| **M3913** | 12 | 0.875 | 22.23 | 0.083 | 2.11 |
| **M3915** | 14 | 0.920 | 23.37 | 0.083 | 2.11 |
| **M3916** | 15 | 0.950 | 24.13 | 0.083 | 2.11 |

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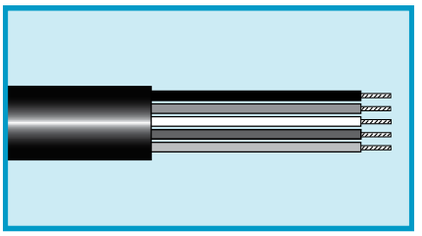
# Manhattan™ Control Cable

## 600 V Unshielded, Multiconductor, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC/nylon insulation
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39056** | 2 | 0.283 | 7.19 | 0.048 | 1.22 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39057** | 2 | 0.301 | 7.65 | 0.048 | 1.22 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39058** | 2 | 0.355 | 9.02 | 0.048 | 1.22 |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39059** | 2 | 0.393 | 9.98 | 0.048 | 1.22 |



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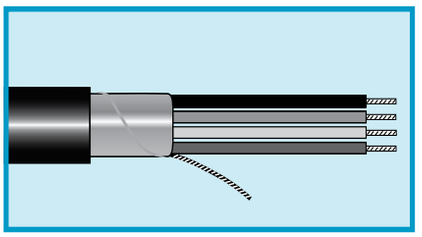
# Manhattan™ Control Cable

## 600 V Foil Shield, Multiconductor, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart J (page 533)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| M33800 | 2 | 0.277 | 7.04 | 0.047 | 1.19 |
| M33801 | 3 | 0.291 | 7.39 | 0.047 | 1.19 |
| M33802 | 4 | 0.314 | 7.98 | 0.047 | 1.19 |
| M33803 | 5 | 0.340 | 8.64 | 0.047 | 1.19 |
| M33805 | 7 | 0.366 | 9.30 | 0.047 | 1.19 |
| M33807 | 9 | 0.421 | 10.69 | 0.047 | 1.19 |
| M33810 | 12 | 0.467 | 11.86 | 0.047 | 1.19 |
| M33815 | 15 | 0.537 | 13.64 | 0.063 | 1.60 |
| M33819 | 19 | 0.573 | 14.55 | 0.063 | 1.60 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| M33826 | 2 | 0.301 | 7.65 | 0.047 | 1.19 |
| M33828 | 3 | 0.317 | 8.05 | 0.047 | 1.19 |
| M33829 | 4 | 0.343 | 8.71 | 0.047 | 1.19 |
| M33830 | 5 | 0.372 | 9.45 | 0.047 | 1.19 |
| M33832 | 7 | 0.402 | 10.21 | 0.047 | 1.19 |
| M33834 | 9 | 0.465 | 11.81 | 0.047 | 1.19 |
| M33837 | 12 | 0.549 | 13.94 | 0.063 | 1.60 |
| M33838 | 15 | 0.592 | 15.04 | 0.063 | 1.60 |
| M33839 | 19 | 0.634 | 16.10 | 0.063 | 1.60 |

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (7 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| M33845 | 2 | 0.331 | 8.41 | 0.047 | 1.19 |
| M33847 | 3 | 0.349 | 8.86 | 0.047 | 1.19 |
| M33848 | 4 | 0.379 | 9.63 | 0.047 | 1.19 |
| M33849 | 5 | 0.413 | 10.49 | 0.047 | 1.19 |
| M33851 | 7 | 0.448 | 11.38 | 0.047 | 1.19 |
| M33853 | 9 | 0.551 | 14.00 | 0.063 | 1.60 |
| M33856 | 12 | 0.611 | 15.52 | 0.063 | 1.60 |
| M33857 | 15 | 0.661 | 16.79 | 0.063 | 1.60 |
| M33858 | 19 | 0.709 | 18.01 | 0.063 | 1.60 |

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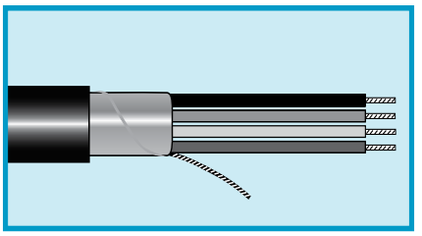
# Manhattan™ Control Cable

## 600 V Foil Shield, Multiconductor, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart J (page 533)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**12 AWG (3.30 mm²)**

Stranding: 7/0.0305 (7 x 0.78 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33865** | 2 | 0.369 | 9.37 | 0.047 | 1.19 |
| **M33867** | 3 | 0.390 | 9.91 | 0.047 | 1.19 |
| **M33868** | 4 | 0.425 | 10.80 | 0.047 | 1.19 |
| **M33869** | 5 | 0.464 | 11.79 | 0.047 | 1.19 |
| **M33870** | 6 | 0.505 | 12.83 | 0.047 | 1.19 |
| **M33871** | 7 | 0.505 | 12.83 | 0.047 | 1.19 |
| **M33873** | 9 | 0.621 | 15.77 | 0.063 | 1.60 |
| **M33876** | 12 | 0.690 | 17.53 | 0.063 | 1.60 |
| **M33877** | 15 | 0.748 | 19.00 | 0.063 | 1.60 |
| **M33879** | 19 | 0.804 | 20.42 | 0.063 | 1.60 |

**10 AWG (5.26 mm²)**

Stranding: 7/0.0385 (7 x 0.98 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M33902** | 2 | 0.441 | 11.20 | 0.047 | 1.19 |
| **M33903** | 3 | 0.468 | 11.89 | 0.047 | 1.19 |
| **M33904** | 4 | 0.544 | 13.82 | 0.063 | 1.60 |
| **M33905** | 5 | 0.594 | 15.09 | 0.063 | 1.60 |
| **M33906** | 6 | 0.645 | 16.38 | 0.063 | 1.60 |
| **M33907** | 7 | 0.645 | 16.38 | 0.063 | 1.60 |
| **M33910** | 9 | 0.752 | 19.10 | 0.063 | 1.60 |
| **M33912** | 12 | 0.879 | 22.33 | 0.083 | 2.11 |



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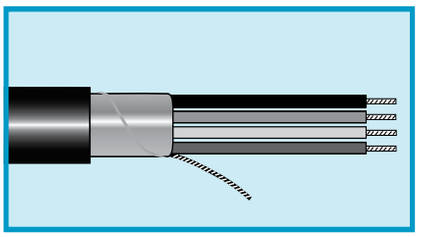
# Manhattan™ Control Cable

## 600 V Foil Shield, Multiconductor, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39109** | 2 | 0.287 | 7.29 | 0.048 | 1.22 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39110** | 2 | 0.305 | 7.75 | 0.048 | 1.22 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39111** | 2 | 0.359 | 9.11 | 0.048 | 1.22 |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39112** | 2 | 0.397 | 10.08 | 0.048 | 1.22 |

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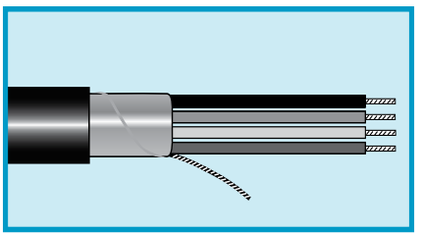
## 600 V Foil Shield, Multiconductor, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart J1 (page 533)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductors
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

Bulk, cut to length
(Minimums may apply)

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **7616/6** | 6 | 0.401 | 10.19 | 0.048 | 1.22 |

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (41 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **7614/6** | 6 | 0.447 | 11.35 | 0.048 | 1.22 |



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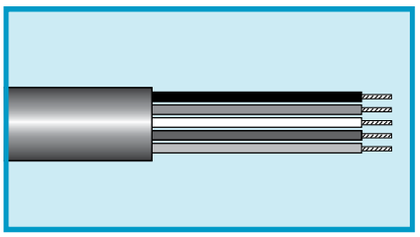
# Manhattan™ Control Cable

## 300 V Unshielded, Multiconductor, PVC, PVC



**UL PLTC, ITC**
**UL CMG**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39071** | 2 | 0.203 | 5.16 | 0.038 | 0.97 |
| **M39072** | 3 | 0.213 | 5.41 | 0.038 | 0.97 |

**20 AWG (0.61 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39073** | 2 | 0.223 | 5.66 | 0.038 | 0.97 |
| **M39074** | 3 | 0.234 | 5.94 | 0.038 | 0.97 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39075** | 2 | 0.243 | 6.17 | 0.038 | 0.97 |
| **M39076** | 3 | 0.256 | 6.50 | 0.038 | 0.97 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (7 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39077** | 2 | 0.261 | 6.63 | 0.038 | 0.97 |
| **M39078** | 3 | 0.275 | 6.99 | 0.038 | 0.97 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39079*** | 2 | 0.325 | 8.26 | 0.043 | 1.09 |
| **M39080*** | 3 | 0.343 | 8.71 | 0.043 | 1.09 |

*Not CMG approved.

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39081*** | 2 | 0.423 | 10.74 | 0.053 | 1.35 |

*Not CMG approved.

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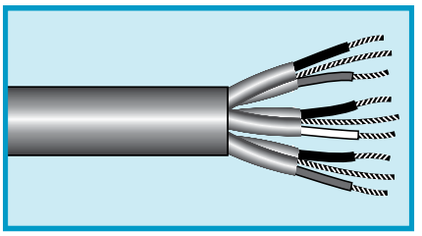
# Manhattan™ Control Cable

## 300 V Foil Shield, Individual Pairs, Multipair, PVC, PVC



**UL PLTC, ITC**
**UL CMG**
**CSA CMG**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Chart BR (page 529)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Slate PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39147** | 2 | 0.320 | 8.13 | 0.043 | 1.09 |
| **M39148** | 3 | 0.338 | 8.59 | 0.043 | 1.09 |
| **M39149** | 4 | 0.368 | 9.35 | 0.043 | 1.09 |
| **M39150** | 6 | 0.457 | 11.61 | 0.053 | 1.35 |
| **M39151** | 9 | 0.529 | 13.44 | 0.053 | 1.35 |
| **M39152** | 11 | 0.563 | 14.30 | 0.053 | 1.35 |
| **M39153** | 15 | 0.582 | 14.78 | 0.053 | 1.35 |
| **M39154** | 19 | 0.646 | 16.41 | 0.063 | 1.60 |
| **M39155** | 27 | 0.763 | 19.38 | 0.063 | 1.60 |
| **M39156** | 51 | 1.005 | 25.53 | 0.075 | 1.91 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39157** | 2 | 0.410 | 10.41 | 0.053 | 1.35 |
| **M39158** | 3 | 0.434 | 11.02 | 0.053 | 1.35 |
| **M39159** | 4 | 0.473 | 12.01 | 0.053 | 1.35 |
| **M39160** | 6 | 0.563 | 14.30 | 0.053 | 1.35 |
| **M39161** | 9 | 0.677 | 17.20 | 0.063 | 1.60 |
| **M39162** | 11 | 0.731 | 18.57 | 0.063 | 1.60 |
| **M39163** | 15 | 0.820 | 20.83 | 0.063 | 1.60 |



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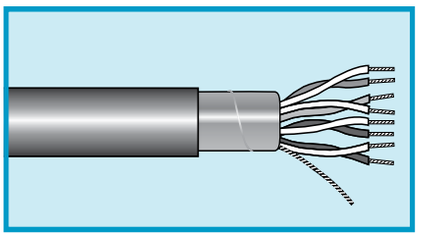
# Manhattan™ Control Cable

## 300 V Overall Foil Shield, Multipair, PVC, PVC



**UL PLTC, ITC**
**UL CMG**
**CSA CMG**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Chart BR (page 529)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Slate PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39130** | 2 | 0.296 | 7.52 | 0.043 | 1.09 |
| **M39131** | 3 | 0.312 | 7.92 | 0.043 | 1.09 |
| **M39132** | 4 | 0.339 | 8.61 | 0.043 | 1.09 |
| **M39133** | 6 | 0.420 | 10.67 | 0.053 | 1.35 |
| **M39134** | 9 | 0.483 | 12.27 | 0.053 | 1.35 |
| **M39135** | 11 | 0.520 | 13.21 | 0.053 | 1.35 |
| **M39136** | 15 | 0.580 | 14.73 | 0.053 | 1.35 |
| **M39137** | 19 | 0.642 | 16.31 | 0.063 | 1.60 |
| **M39138** | 27 | 0.759 | 19.28 | 0.063 | 1.60 |
| **M39139** | 51 | 0.995 | 25.27 | 0.075 | 1.91 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39140** | 2 | 0.362 | 9.19 | 0.043 | 1.09 |
| **M39141** | 3 | 0.403 | 10.24 | 0.053 | 1.35 |
| **M39142** | 4 | 0.438 | 11.13 | 0.053 | 1.35 |
| **M39143** | 6 | 0.518 | 13.16 | 0.053 | 1.35 |
| **M39144** | 9 | 0.622 | 15.80 | 0.063 | 1.60 |
| **M39145** | 11 | 0.671 | 17.04 | 0.063 | 1.60 |
| **M39146** | 15 | 0.751 | 19.08 | 0.063 | 1.60 |

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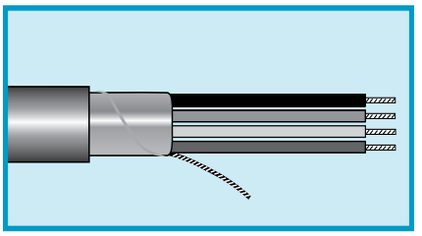
# Manhattan™ Control Cable

## 300 V Overall Foil Shield, Multiconductor, PVC, PVC



**UL PLTC, ITC**
**UL CMG**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester tape shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Slate PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39113** | 2 | 0.207 | 5.26 | 0.038 | 0.97 |
| **M39114** | 3 | 0.214 | 5.44 | 0.038 | 0.97 |

**20 AWG (0.61 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39115** | 2 | 0.227 | 5.77 | 0.038 | 0.97 |
| **M39116** | 3 | 0.238 | 6.05 | 0.038 | 0.97 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39117** | 2 | 0.247 | 6.27 | 0.038 | 0.97 |
| **M39118** | 3 | 0.260 | 6.60 | 0.038 | 0.97 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (7 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39119** | 2 | 0.265 | 6.73 | 0.038 | 0.97 |
| **M39120** | 3 | 0.279 | 7.09 | 0.038 | 0.97 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.022 (0.56 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39121*** | 2 | 0.329 | 8.36 | 0.043 | 1.09 |
| **M39122*** | 3 | 0.347 | 8.81 | 0.043 | 1.09 |

*Not CMG approved.

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.032 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39123*** | 2 | 0.427 | 10.85 | 0.053 | 1.35 |

*Not CMG approved.

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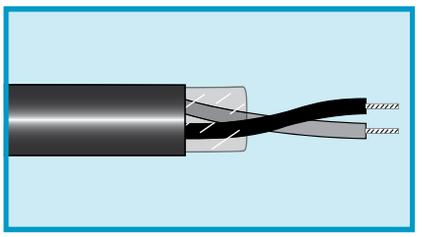
# Manhattan™ Instrumentation Cable

## 300 V Unshielded Pairs, PVC, PVC



**UL PLTC, ITC**
**UL CL3**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Black, white

### Materials

- Stranded bare copper conductors
- PVC insulation
- Black PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.52 mm²)**

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9500010** | 1 | 0.215 | 5.46 | 0.038 | 0.97 |

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9508010** | 1 | 0.235 | 5.97 | 0.038 | 0.97 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9506010** | 1 | 0.259 | 6.58 | 0.038 | 0.97 |

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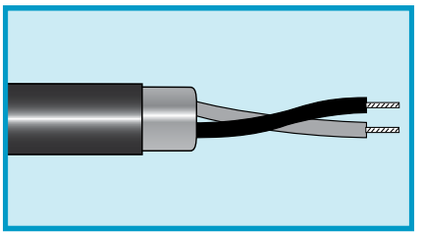
# Manhattan™ Instrumentation Cable

## 300 V Overall Foil Shield, Pair, PVC, PVC



**UL PLTC, ITC**
**UL CL3**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Black, white

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)
22 AWG (0.35 mm2) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5610B2201** | 1 | 0.192 | 4.88 | 0.038 | 0.97 |

**20 AWG (0.52 mm²)**

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9520010** | 1 | 0.219 | 5.56 | 0.038 | 0.97 |

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9528010** | 1 | 0.239 | 6.07 | 0.038 | 0.97 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9526010** | 1 | 0.263 | 6.68 | 0.038 | 0.97 |

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (7 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9524010*** | 1 | 0.303 | 7.70 | 0.043 | 1.09 |

*Not CMG approved.

**12AWG (3.29 mm²)**

Stranding: 19/0.0185 (7 x 0.47 mm)
Insulation thickness: 0.022 (0.56 mm)
16 AWG (1.31 mm2) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5610B1201*** | 1 | 0.368 | 9.35 | 0.045 | 1.14 |

*Not CMG approved.



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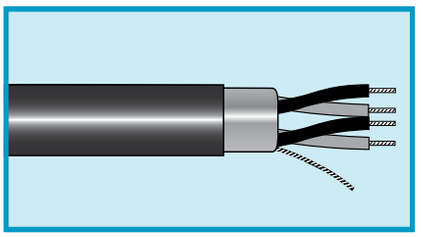
# Manhattan™ Instrumentation Cable

## 600 V Pairs, Overall Foil Shield, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart BW (page 529)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.52 mm²)**

Stranding: 7/0.0121 (7 x 0.51 mm)
Insulation thickness: 0.013 (0.33 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5616B2001** | 1 | 0.220 | 5.59 | 0.040 | 1.02 |

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8528010** | 1 | 0.279 | 7.09 | 0.048 | 1.22 |
| **M8708020** | 2 | 0.396 | 10.06 | 0.050 | 1.27 |
| **M8708040** | 4 | 0.456 | 11.58 | 0.050 | 1.27 |
| **M8708060** | 6 | 0.572 | 14.53 | 0.065 | 1.65 |
| **M8708080** | 8 | 0.617 | 15.67 | 0.065 | 1.65 |
| **M8708120** | 12 | 0.737 | 18.72 | 0.065 | 1.65 |
| **M8708160** | 16 | 0.856 | 21.74 | 0.085 | 2.16 |
| **M8708240** | 24 | 1.025 | 26.04 | 0.085 | 2.16 |
| **M8708360** | 36 | 1.188 | 30.18 | 0.085 | 2.16 |
| **M8708500** | 50 | 1.356 | 34.44 | 0.085 | 2.16 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8526010** | 1 | 0.303 | 7.70 | 0.048 | 1.22 |
| **M8706020** | 2 | 0.435 | 11.05 | 0.050 | 1.27 |
| **M8706040** | 4 | 0.504 | 12.80 | 0.050 | 1.27 |
| **M8706060** | 6 | 0.631 | 16.03 | 0.065 | 1.65 |
| **M8706080** | 8 | 0.682 | 17.32 | 0.065 | 1.65 |
| **M8706120** | 12 | 0.858 | 21.79 | 0.085 | 2.16 |
| **M8706160** | 16 | 0.949 | 24.10 | 0.085 | 2.16 |
| **M8706240** | 24 | 1.141 | 28.98 | 0.085 | 2.16 |
| **M8706360** | 36 | 1.325 | 33.66 | 0.085 | 2.16 |
| **M8706500** | 50 | 1.517 | 38.53 | 0.085 | 2.16 |

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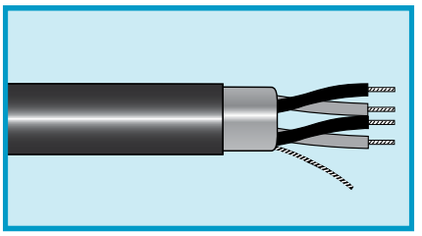
# Manhattan™ Instrumentation Cable

## 600 V Pairs, Overall Foil Shield, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart BW (page 529)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (7 x 0.61 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8524010** | 1 | 0.333 | 8.46 | 0.048 | 1.22 |
| **M8704020** | 2 | 0.484 | 12.29 | 0.050 | 1.27 |
| **M8704040** | 4 | 0.593 | 15.06 | 0.065 | 1.65 |
| **M8704060** | 6 | 0.706 | 17.93 | 0.065 | 1.65 |
| **M8704080** | 8 | 0.764 | 19.41 | 0.065 | 1.65 |
| **M8704120** | 12 | 0.961 | 24.41 | 0.085 | 2.16 |
| **M8704160** | 16 | 1.064 | 27.03 | 0.085 | 2.16 |
| **M8704240** | 24 | 1.286 | 32.66 | 0.085 | 2.16 |
| **M8704360** | 36 | 1.498 | 38.05 | 0.085 | 2.16 |
| **M8704500** | 50 | 1.778 | 45.16 | 0.115 | 2.92 |

**12AWG (3.29 mm²)**

Stranding: 19/0.0185 (19 x 0.47 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5616B1201** | 1 | 0.374 | 9.50 | 0.050 | 1.27 |

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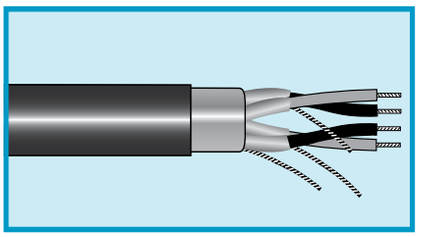
# Manhattan™ Instrumentation Cable

## 600 V Pairs, Overall and Individually Foil Shielded Pairs, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Chart BW (page 529)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| M8748020 | 2 | 0.429 | 10.90 | 0.050 | 1.27 |
| M8748040 | 4 | 0.497 | 12.62 | 0.050 | 1.27 |
| M8748060 | 6 | 0.622 | 15.80 | 0.065 | 1.65 |
| M8748080 | 8 | 0.672 | 17.07 | 0.065 | 1.65 |
| M8748120 | 12 | 0.806 | 20.47 | 0.065 | 1.65 |
| M8748160 | 16 | 0.935 | 23.75 | 0.085 | 2.16 |
| M8748200 | 20 | 1.020 | 25.91 | 0.085 | 2.16 |
| M8748240 | 24 | 1.123 | 28.52 | 0.085 | 2.16 |
| M8748360 | 36 | 1.306 | 33.17 | 0.085 | 2.16 |
| M8748500 | 50 | 1.497 | 38.02 | 0.085 | 2.16 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| M8746020 | 2 | 0.471 | 11.96 | 0.050 | 1.27 |
| M8746040 | 4 | 0.577 | 14.66 | 0.065 | 1.65 |
| M8746060 | 6 | 0.686 | 17.42 | 0.065 | 1.65 |
| M8746080 | 8 | 0.742 | 18.85 | 0.065 | 1.65 |
| M8746120 | 12 | 9.33 | 23.70 | 0.085 | 2.16 |
| M8746160 | 16 | 1.034 | 26.26 | 0.085 | 2.16 |
| M8746200 | 20 | 1.130 | 28.70 | 0.085 | 2.16 |
| M8746240 | 24 | 1.247 | 31.67 | 0.085 | 2.16 |
| M8746360 | 36 | 1.454 | 36.93 | 0.085 | 2.16 |
| M8746500 | 50 | 1.730 | 43.94 | 0.115 | 2.92 |

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (7 x 0.61 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| M8744020 | 2 | 0.523 | 13.28 | 0.050 | 1.27 |
| M8744040 | 4 | 0.641 | 16.28 | 0.065 | 1.65 |
| M8744060 | 6 | 0.765 | 19.43 | 0.065 | 1.65 |
| M8744080 | 8 | 0.869 | 22.07 | 0.085 | 2.16 |
| M8744120 | 12 | 1.043 | 26.49 | 0.085 | 2.16 |
| M8744160 | 16 | 1.158 | 29.41 | 0.085 | 2.16 |
| M8744200 | 20 | 1.267 | 32.18 | 0.085 | 2.16 |
| M8744240 | 24 | 1.401 | 35.59 | 0.085 | 2.16 |
| M8744360 | 36 | 1.638 | 41.61 | 0.085 | 2.16 |
| M8744500 | 50 | 1.945 | 49.40 | 0.115 | 2.92 |

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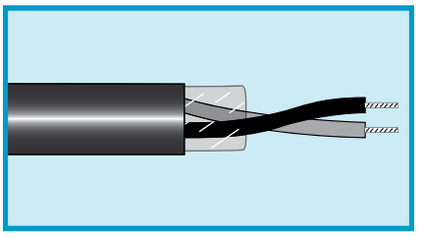
# Manhattan™ Instrumentation Cable

## 600 V Unshielded Pairs, PVC/Nylon, PVC



### UL TC

#### Operating Temperature

- -25°C to +90°C

#### Conductor Color Coding

- Black, white

#### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Black PVC jacket

#### Features

- UL Sunlight Resistant
- UL Direct Burial

#### Availability

1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5606B1801** | 1 | 0.276 | 7.01 | 0.050 | 1.27 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5606B1601** | 1 | 0.300 | 7.62 | 0.050 | 1.27 |

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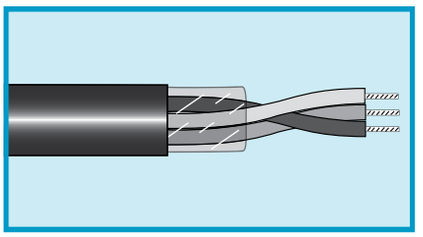
# Manhattan™ Instrumentation Cable

## 300 V Unshielded Triads, PVC, PVC



**UL PLTC, ITC**
**UL CL3**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Black, white, red

### Materials

- Stranded bare copper conductors
- PVC insulation
- Black PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.52 mm²)**

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9600010** | 1 | 0.226 | 5.74 | 0.038 | 0.97 |

**18 AWG (0.81 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9608010** | 1 | 0.247 | 6.27 | 0.038 | 0.97 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9606010** | 1 | 0.293 | 7.44 | 0.038 | 0.97 |

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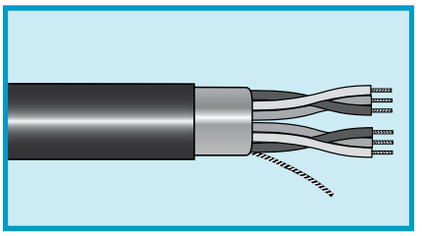
# Manhattan™ Instrumentation Cable

## 300 V Foil Shield, Triads, PVC, PVC



**UL PLTC, ITC**
**UL CL3**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Black, white, red

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5640B2201** | 1 | 0.201 | 5.11 | 0.038 | 0.96 |

**20 AWG (0.52 mm²)**

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9620010** | 1 | 0.230 | 5.84 | 0.038 | 0.97 |
| **5640B2004** | 4 | 0.410 | 10.41 | 0.055 | 1.39 |
| **5640B2012** | 12 | 0.640 | 16.28 | 0.065 | 1.65 |

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9628010** | 1 | 0.251 | 6.38 | 0.038 | 0.97 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9626010** | 1 | 0.287 | 7.29 | 0.043 | 1.09 |

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (7 x 0.61 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9624010*** | 1 | 0.319 | 8.10 | 0.043 | 1.09 |

*Not CMG approved.



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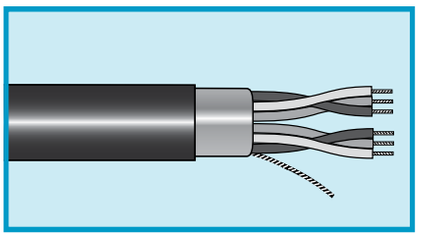
# Manhattan™ Instrumentation Cable

## 300 V Overall and Individually Foil Shielded Triads, PVC, PVC



**UL PLTC**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Black, white, red
- White conductors are numbered

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant

### Availability

1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.51 mm²)**

Stranding: 7/0.0121 (7 x 0.54 mm)
Insulation thickness: 0.013 (0.33 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5650B2004** | 4 | 0.458 | 11.63 | 0.055 | 1.39 |
| **5650B2008** | 8 | 0.586 | 14.88 | 0.055 | 1.39 |
| **5650B2012** | 12 | 0.723 | 18.36 | 0.065 | 1.65 |

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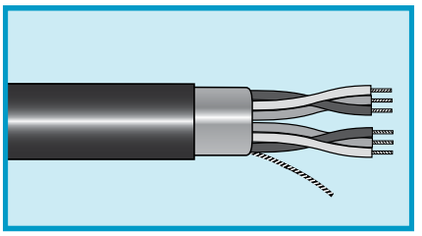
# Manhattan™ Instrumentation Cable

## 600 V Overall Foil Shield, Triads, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Black, white, red
- White conductors are numbered

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8628010** | 1 | 0.293 | 7.44 | 0.048 | 1.22 |
| **M8808020** | 2 | 0.450 | 11.43 | 0.050 | 1.27 |
| **M8808040** | 4 | 0.552 | 14.02 | 0.065 | 1.65 |
| **M8808080** | 8 | 0.708 | 17.98 | 0.065 | 1.65 |
| **M8808120** | 12 | 0.890 | 22.61 | 0.085 | 2.16 |
| **M8808240** | 24 | 1.186 | 30.12 | 0.085 | 2.16 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8626010** | 1 | 0.319 | 8.10 | 0.048 | 1.22 |
| **M8806020** | 2 | 0.497 | 12.62 | 0.050 | 1.27 |
| **M8806040** | 4 | 0.609 | 15.47 | 0.065 | 1.65 |
| **M8806080** | 8 | 0.785 | 19.94 | 0.065 | 1.65 |
| **M8806120** | 12 | 0.987 | 25.07 | 0.085 | 2.16 |
| **M8806240** | 24 | 1.323 | 33.60 | 0.085 | 2.16 |

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (7 x 0.62 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8624010** | 1 | 0.351 | 8.92 | 0.048 | 1.22 |
| **M8804020** | 2 | 0.585 | 14.86 | 0.065 | 1.65 |
| **M8804040** | 4 | 0.680 | 17.27 | 0.065 | 1.65 |
| **M8804080** | 8 | 0.923 | 23.44 | 0.085 | 2.16 |
| **M8804120** | 12 | 1.109 | 28.17 | 0.085 | 2.16 |
| **M8804240** | 24 | 1.495 | 37.97 | 0.085 | 2.16 |



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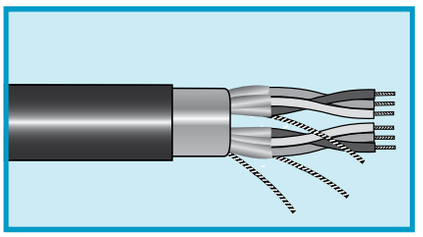
# Manhattan™ Instrumentation Cable

## 600 V Overall and Individually Foil Shielded Multitriads, PVC/Nylon, PVC



**UL TC**

### Operating Temperature

- -25°C to +90°C

### Conductor Color Coding

- Black, white, red
- White conductors are numbered

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min., on both individual triads and overall cable
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant
- UL Direct Burial

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**18 AWG (0.81 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8848020** | 2 | 0.501 | 12.73 | 0.050 | 1.27 |
| **M8848040** | 4 | 0.614 | 15.60 | 0.065 | 1.65 |
| **M8848080** | 8 | 0.832 | 21.13 | 0.085 | 2.16 |
| **M8848120** | 12 | 0.996 | 25.30 | 0.085 | 2.16 |
| **M8848240** | 24 | 1.336 | 33.93 | 0.065 | 2.16 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8846020** | 2 | 0.583 | 14.81 | 0.065 | 1.65 |
| **M8846040** | 4 | 0.677 | 17.20 | 0.065 | 1.65 |
| **M8846080** | 8 | 0.918 | 23.32 | 0.085 | 2.16 |
| **M8846120** | 12 | 1.104 | 28.04 | 0.085 | 2.16 |
| **M8846240** | 24 | 1.488 | 37.80 | 0.085 | 2.16 |

**14 AWG (2.08 mm²)**

Stranding: 7/0.0242 (7 x 0.61 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Triads | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M8844020** | 2 | 0.648 | 16.46 | 0.065 | 1.65 |
| **M8844040** | 4 | 0.755 | 19.18 | 0.065 | 1.65 |
| **M8844080** | 8 | 1.026 | 26.06 | 0.085 | 2.16 |
| **M8844120** | 12 | 1.238 | 31.45 | 0.085 | 2.16 |
| **M8844240** | 24 | 1.738 | 44.15 | 0.115 | 2.92 |

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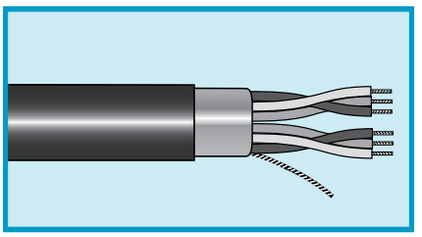
# Manhattan™ Instrumentation Cable

## 300 V Overall Foil Shield, Composite, PVC/Nylon, PVC



**UL PLTC, ITC**
**UL CL3**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Chart BW (page 529)

### Materials

- Stranded bare copper conductors
- PVC insulation
- Communications wire is 22 AWG (0.35 mm²), 7/30 (7 x 0.25 mm) sttranding, bare copper with 0.016 (0.41 mm) thick insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG smaller than conductor
- Black PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.52 mm²) Pairs**

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9700020** | 2 | 0.321 | 8.15 | 0.045 | 1.14 |
| **M9700040** | 4 | 0.400 | 10.16 | 0.053 | 1.35 |
| **M9700060** | 6 | 0.451 | 11.46 | 0.053 | 1.35 |
| **M9700080** | 8 | 0.511 | 12.98 | 0.053 | 1.35 |
| **M9700120** | 12 | 0.581 | 14.76 | 0.053 | 1.35 |
| **M9700160** | 16 | 0.660 | 16.76 | 0.063 | 1.60 |
| **5610B2020*** | 20 | 0.677 | 17.20 | 0.065 | 1.65 |
| **M9700240** | 24 | 0.791 | 20.09 | 0.063 | 1.60 |
| **M9700360** | 36 | 0.925 | 23.50 | 0.073 | 1.85 |
| **M9700500** | 50 | 1.069 | 27.15 | 0.073 | 1.85 |

*No communication wire.

**18 AWG (0.81 mm²) Pairs**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.13 mm) nylon

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9708020** | 2 | 0.353 | 8.97 | 0.045 | 1.14 |
| **M9708040** | 4 | 0.431 | 10.95 | 0.053 | 1.35 |
| **M9708060** | 6 | 0.499 | 12.67 | 0.053 | 1.35 |
| **M9708080** | 8 | 0.558 | 14.17 | 0.053 | 1.35 |
| **M9708120** | 12 | 0.664 | 16.87 | 0.063 | 1.60 |
| **M9708160** | 16 | 0.735 | 18.67 | 0.063 | 1.60 |
| **M9708240** | 24 | 0.905 | 22.99 | 0.073 | 1.85 |
| **M9708360** | 36 | 1.049 | 26.64 | 0.073 | 1.85 |
| **M9708500** | 50 | 1.199 | 30.45 | 0.073 | 1.85 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9706020** | 2 | 0.409 | 10.39 | 0.053 | 1.35 |
| **M9706040** | 4 | 0.471 | 11.96 | 0.053 | 1.35 |
| **M9706060** | 6 | 0.559 | 14.20 | 0.053 | 1.35 |
| **M9706080** | 8 | 0.639 | 16.23 | 0.063 | 1.60 |
| **M9706120** | 12 | 0.747 | 18.97 | 0.063 | 1.60 |
| **M9706160** | 16 | 0.829 | 21.06 | 0.063 | 1.60 |
| **M9706240** | 24 | 1.023 | 25.98 | 0.073 | 1.85 |
| **M9706360** | 36 | 1.189 | 30.20 | 0.073 | 1.85 |
| **M9706500** | 50 | 1.382 | 35.10 | 0.083 | 2.11 |



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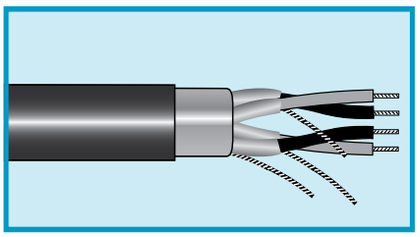
# Manhattan™ Instrumentation Cable

## 300 V Overall and Individually Foil Shielded Pairs, Composite PVC/Nylon, PVC



**UL PLTC, ITC**
**UL CL3**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- Chart BW (page 529)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire one even AWG size smaller than conductors
- Black PVC jacket

### Features

- UL Sunlight Resistant

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.52 mm²)***

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9740020** | 2 | 0.349 | 8.86 | 0.045 | 1.14 |
| **M9740040** | 4 | 0.427 | 10.85 | 0.053 | 1.35 |
| **M9740060** | 6 | 0.493 | 12.52 | 0.053 | 1.35 |
| **M9740080** | 8 | 0.539 | 13.69 | 0.053 | 1.35 |
| **M9740120** | 12 | 0.643 | 16.33 | 0.063 | 1.60 |
| **M9740160** | 16 | 0.724 | 18.39 | 0.063 | 1.60 |
| **5620B2020**** | 20 | 0.752 | 19.10 | 0.065 | 1.65 |
| **M9740240** | 24 | 0.882 | 22.40 | 0.073 | 1.85 |
| **M9740360** | 36 | 1.011 | 25.68 | 0.073 | 1.85 |
| **M9740500** | 50 | 1.169 | 29.69 | 0.073 | 1.85 |

*Communications wire is 22 AWG (0.35 mm²), 7/30 (7 x 0.25 mm) stranding, bare copper with 0.016 (0.41 mm) thick insulation.
**0.013 (0.33 mm) insulation thickness.

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.016 (0.41 mm) PVC

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9748020** | 2 | 0.401 | 10.19 | 0.053 | 1.35 |
| **M9748040** | 4 | 0.463 | 11.76 | 0.053 | 1.35 |
| **M9748060** | 6 | 0.547 | 13.89 | 0.053 | 1.35 |
| **M9748080** | 8 | 0.616 | 15.65 | 0.063 | 1.60 |
| **M9748120** | 12 | 0.712 | 18.08 | 0.063 | 1.60 |
| **M9748160** | 16 | 0.805 | 20.45 | 0.063 | 1.60 |
| **5620B1820** | 20 | 0.921 | 23.36 | 0.075 | 1.91 |
| **M9748240** | 24 | 0.983 | 24.97 | 0.073 | 1.85 |
| **M9748360** | 36 | 1.130 | 28.70 | 0.073 | 1.85 |
| **M9748500** | 50 | 1.349 | 34.26 | 0.083 | 2.11 |

*Communications wire is 22 AWG (0.35 mm²), 7/30 (7 x 0.25 mm) stranding, bare copper with 0.016 (0.41 mm) thick insulation.

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.016 (0.41 mm) PVC

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M9746020** | 2 | 0.441 | 11.20 | 0.053 | 1.35 |
| **M9746040** | 4 | 0.512 | 13.00 | 0.053 | 1.35 |
| **M9746060** | 6 | 0.630 | 16.00 | 0.063 | 1.60 |
| **M9746080** | 8 | 0.690 | 17.53 | 0.063 | 1.60 |
| **M9746120** | 12 | 0.819 | 20.80 | 0.063 | 1.60 |
| **M9746160** | 16 | 0.929 | 23.60 | 0.073 | 1.85 |
| **M9746240** | 24 | 1.123 | 28.52 | 0.073 | 1.85 |
| **M9746360** | 36 | 1.328 | 33.73 | 0.083 | 2.11 |
| **M9746500** | 50 | 1.521 | 38.63 | 0.083 | 2.11 |

*Communications wire is 22 AWG (0.35 mm²), 7/30 (7 x 0.25 mm) stranding, bare copper with 0.016 (0.41 mm) thick insulation.

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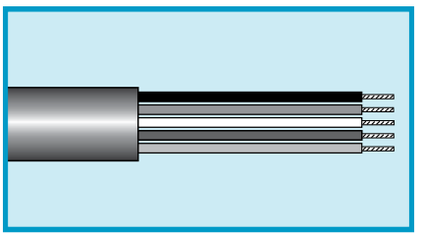
# Manhattan™ Computer Cable

## 300 V Unshielded, Multiconductor, PVC, PVC



**UL AWM 2464**
**UL CL2**
**CSA AWM I/II A/B FT4**

### Applications

- Control and signal wiring
- Computers
- Instrumentation

### Operating Temperature

- -20°C to +105°C (CSA)
- -20°C to +90°C (CL2)
- -20°C to +80°C (AWM)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

**20 AWG (0.50 mm²)**

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **882002** | 2 | 0.202 | 5.13 | 0.032 | 0.81 | R |
| **882003** | 3 | 0.213 | 5.41 | 0.032 | 0.81 | R |
| **882004** | 4 | 0.231 | 5.87 | 0.032 | 0.81 | R |
| **882005** | 5 | 0.251 | 6.38 | 0.032 | 0.81 | R |
| **882006** | 6 | 0.272 | 6.91 | 0.032 | 0.81 | R |
| **882007** | 7 | 0.272 | 6.91 | 0.032 | 0.81 | R |
| **882008** | 8 | 0.293 | 7.44 | 0.032 | 0.81 | R |
| **882010** | 10 | 0.318 | 8.08 | 0.032 | 0.81 | R |
| **882012** | 12 | 0.338 | 8.59 | 0.032 | 0.81 | R |
| **882015** | 15 | 0.389 | 9.88 | 0.032 | 0.81 | F |
| **882020** | 20 | 0.430 | 10.92 | 0.032 | 0.81 | R |
| **882025** | 25 | 0.471 | 11.96 | 0.032 | 0.81 | R |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **881802** | 2 | 0.222 | 5.64 | 0.032 | 0.81 | R |
| **881803** | 3 | 0.234 | 5.94 | 0.032 | 0.81 | F |
| **881804** | 4 | 0.255 | 6.48 | 0.032 | 0.81 | R |
| **881805** | 5 | 0.278 | 7.06 | 0.032 | 0.81 | R |
| **881806** | 6 | 0.289 | 7.34 | 0.032 | 0.81 | R |
| **881807** | 7 | 0.302 | 7.67 | 0.032 | 0.81 | R |
| **881808** | 8 | 0.341 | 8.66 | 0.032 | 0.81 | R |
| **881809** | 9 | 0.379 | 9.63 | 0.032 | 0.81 | R |
| **881812** | 12 | 0.408 | 10.36 | 0.032 | 0.81 | F |
| **881815** | 15 | 0.465 | 11.81 | 0.032 | 0.81 | F |
| **881820** | 20 | 0.511 | 12.98 | 0.032 | 0.81 | R |
| **881825** | 25 | 0.600 | 15.24 | 0.032 | 0.81 | F |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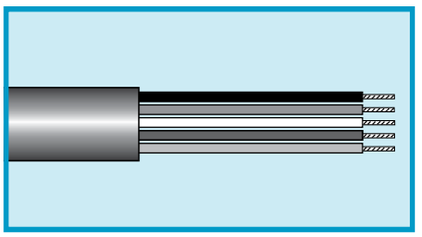
# Manhattan™ Computer Cable

## 300 V Unshielded, Multiconductor, PVC, PVC



**UL AWM 2464**
**UL CL2**
**CSA AWM I/II A/B FT4**

### Applications

- Control and signal wiring
- Computers
- Instrumentation

### Operating Temperature

- -20°C to +105°C (CSA)
- -20°C to +90°C (CL2)
- -20°C to +80°C (AWM)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **881602** | 2 | 0.312 | 7.92 | 0.032 | 0.81 | F |
| **881603** | 3 | 0.329 | 8.36 | 0.032 | 0.81 | F |
| **881604** | 4 | 0.375 | 9.53 | 0.045 | 1.14 | F |
| **881605** | 5 | 0.405 | 10.29 | 0.045 | 1.14 | F |
| **881606** | 6 | 0.410 | 10.41 | 0.045 | 1.14 | R |
| **881607** | 7 | 0.455 | 11.56 | 0.045 | 1.14 | F |
| **881610** | 10 | 0.578 | 14.68 | 0.045 | 1.14 | R |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (65 x 0.25 mm)
Insulation thickness: 0.031 (0.78 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **881403** | 3 | 0.378 | 9.60 | 0.035 | 0.89 | F |
| **881404** | 4 | 0.434 | 11.02 | 0.045 | 1.14 | F |
| **881405** | 5 | 0.485 | 12.32 | 0.060 | 1.52 | F |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.031 (0.78 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **881202** | 2 | 0.396 | 10.06 | 0.032 | 0.81 | F |
| **881203** | 3 | 0.423 | 10.74 | 0.032 | 0.81 | F |

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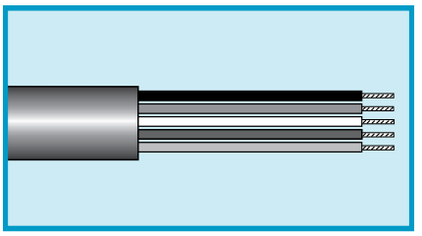
## 300 V Unshielded, Multiconductor, SR-PVC, PVC



**UL AWM 2464**
**UL CL2**
**CSA AWM I/II A/B FT4**

### Applications

- Control and signal wiring
- Computers
- Instrumentation

### Operating Temperature

- -20°C to +105°C (CSA)
- -20°C to +90°C (CL2)
- -20°C to +80°C (AWM)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **882402** | 2 | 0.152 | 3.86 | 0.032 | 0.81 | E |
| **882403** | 3 | 0.159 | 4.04 | 0.032 | 0.81 | E |
| **882404** | 4 | 0.170 | 4.32 | 0.032 | 0.81 | E |
| **882406** | 6 | 0.197 | 5.00 | 0.032 | 0.81 | E |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **882202** | 2 | 0.164 | 4.17 | 0.032 | 0.81 | R |
| **882203** | 3 | 0.172 | 4.37 | 0.032 | 0.81 | R |
| **882204** | 4 | 0.185 | 4.70 | 0.032 | 0.81 | R |
| **882205** | 5 | 0.200 | 5.08 | 0.032 | 0.81 | R |
| **882206** | 6 | 0.215 | 5.46 | 0.032 | 0.81 | R |
| **882207** | 7 | 0.215 | 5.46 | 0.032 | 0.81 | R |
| **882208** | 8 | 0.230 | 5.84 | 0.032 | 0.81 | R |
| **882209** | 9 | 0.246 | 6.25 | 0.032 | 0.81 | R |
| **882210** | 10 | 0.264 | 6.71 | 0.032 | 0.81 | R |
| **882212** | 12 | 0.272 | 6.91 | 0.032 | 0.81 | R |
| **882215** | 15 | 0.294 | 7.47 | 0.032 | 0.81 | F |
| **882220** | 20 | 0.326 | 8.28 | 0.032 | 0.81 | F |
| **882225** | 25 | 0.364 | 9.25 | 0.032 | 0.81 | F |
| **882230** | 30 | 0.385 | 9.78 | 0.032 | 0.81 | F |
| **882240** | 40 | 0.429 | 10.90 | 0.032 | 0.81 | F |
| **882250** | 50 | 0.478 | 12.14 | 0.035 | 0.89 | F |
| **882260** | 60 | 0.520 | 13.21 | 0.035 | 0.89 | F |



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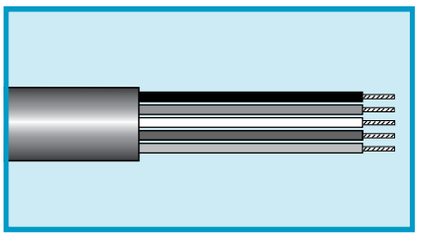
# Manhattan™ Computer Cable

## 300 V Unshielded, Multiconductor, SR-PVC, PVC



**UL AWM 2343**
**UL CMG**
**CSA CMG FT4**

### Applications

- Control and signal wiring
- Computers
- Instrumentation

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart E (page 532)

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (10 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4501** | 7 | 0.262 | 6.65 | 0.063 | 1.60 |
| **M4502** | 12 | 0.312 | 7.92 | 0.063 | 1.60 |
| **M4503** | 15 | 0.332 | 8.43 | 0.063 | 1.60 |
| **M4504** | 19 | 0.349 | 8.86 | 0.063 | 1.60 |
| **M4506** | 37 | 0.437 | 11.10 | 0.063 | 1.60 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4508** | 2 | 0.229 | 5.82 | 0.063 | 1.60 |
| **M4510** | 7 | 0.280 | 7.11 | 0.063 | 1.60 |
| **M4511** | 12 | 0.337 | 8.56 | 0.063 | 1.60 |
| **M4512** | 15 | 0.360 | 9.14 | 0.063 | 1.60 |
| **M4513** | 19 | 0.379 | 9.63 | 0.063 | 1.60 |
| **M4514** | 27 | 0.437 | 11.10 | 0.063 | 1.60 |
| **M4515** | 37 | 0.479 | 12.17 | 0.063 | 1.60 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4517** | 2 | 0.245 | 6.22 | 0.063 | 1.60 |
| **M4518** | 5 | 0.287 | 7.29 | 0.063 | 1.60 |
| **M4519** | 7 | 0.304 | 7.72 | 0.063 | 1.60 |
| **M4520** | 12 | 0.370 | 9.40 | 0.063 | 1.60 |
| **M4522** | 19 | 0.419 | 10.64 | 0.063 | 1.60 |
| **M4523** | 27 | 0.486 | 12.34 | 0.063 | 1.60 |
| **M4524** | 37 | 0.535 | 13.59 | 0.063 | 1.60 |

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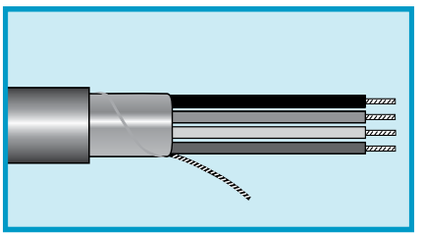
## 300 V Foil Shield, Multiconductor, PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- Control and signal wiring
- Computers
- Instrumentation

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.56 mm²)**

Stranding: 7/28 (10 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code D

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4660** | 2 | 0.211 | 5.36 | 0.032 | 0.81 |
| **M4661** | 3 | 0.222 | 5.64 | 0.032 | 0.81 |
| **M4662** | 4 | 0.240 | 6.10 | 0.032 | 0.81 |
| **M4664** | 6 | 0.282 | 7.16 | 0.032 | 0.81 |
| **M4665** | 8 | 0.304 | 7.72 | 0.032 | 0.81 |
| **M4666** | 10 | 0.351 | 8.92 | 0.032 | 0.81 |
| **M4668** | 15 | 0.393 | 9.98 | 0.032 | 0.81 |
| **M4670** | 20 | 0.437 | 11.10 | 0.032 | 0.81 |
| **M4672** | 25 | 0.491 | 12.47 | 0.032 | 0.81 |
| **M4673** | 30 | 0.520 | 13.21 | 0.032 | 0.81 |
| **M4675** | 40 | 0.625 | 15.88 | 0.053 | 1.35 |
| **M4677** | 50 | 0.685 | 17.40 | 0.053 | 1.35 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code D

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4690** | 2 | 0.229 | 5.82 | 0.032 | 0.81 |
| **M4691** | 3 | 0.241 | 6.12 | 0.032 | 0.81 |
| **M4692*** | 2 | 0.229 | 5.82 | 0.032 | 0.81 |
| **M4693*** | 3 | 0.241 | 6.12 | 0.032 | 0.81 |
| **M4694** | 4 | 0.262 | 6.65 | 0.032 | 0.81 |
| **M4696** | 6 | 0.309 | 7.85 | 0.032 | 0.81 |
| **M4697** | 8 | 0.334 | 8.48 | 0.032 | 0.81 |
| **M4698** | 10 | 0.387 | 9.83 | 0.032 | 0.81 |
| **M4700** | 15 | 0.436 | 11.07 | 0.032 | 0.81 |
| **M4702** | 20 | 0.485 | 12.32 | 0.032 | 0.81 |
| **M4704** | 25 | 0.545 | 13.84 | 0.032 | 0.81 |
| **M4706** | 30 | 0.620 | 15.75 | 0.053 | 1.35 |
| **M4708** | 40 | 0.690 | 17.53 | 0.053 | 1.35 |

*Conductor color coding: 1 Brown, 2 Blue, 3 Green/Yellow.



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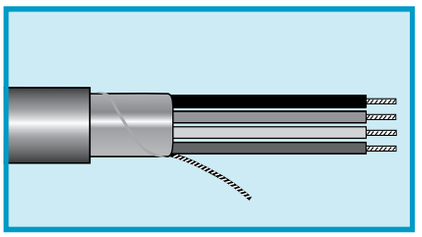
## 300 V Foil Shield, Multiconductor, PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- Control and signal wiring
- Computers
- Instrumentation

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)
Color Code R

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4720** | 2 | 0.253 | 6.43 | 0.032 | 0.81 |
| **M4721** | 3 | 0.267 | 6.78 | 0.032 | 0.81 |
| **M4722*** | 2 | 0.253 | 6.43 | 0.032 | 0.81 |
| **M4723*** | 3 | 0.267 | 6.78 | 0.032 | 0.81 |
| **M4724** | 4 | 0.291 | 7.39 | 0.032 | 0.81 |
| **M4726** | 6 | 0.345 | 8.76 | 0.032 | 0.81 |
| **M4728** | 8 | 0.374 | 9.50 | 0.032 | 0.81 |
| **M4730** | 10 | 0.435 | 11.05 | 0.032 | 0.81 |
| **M4732** | 15 | 0.489 | 12.42 | 0.032 | 0.81 |
| **M4734** | 20 | 0.547 | 13.89 | 0.032 | 0.81 |
| **M4736** | 30 | 0.697 | 17.70 | 0.053 | 1.35 |

*Conductor color coding: 1 Brown, 2 Blue, 3 Green/Yellow.

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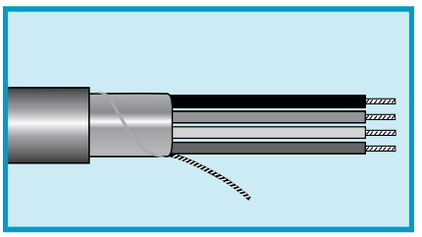
## 300 V Foil Shield, Multiconductor, PVC, PVC



**UL AWM 2464**
**UL CL2**
**CSA AWM I/II A/B FT4**

### Applications

- Sound broadcast
- Instrumentation

### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- Chart R (page 535)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1012405** | 5 | 0.190 | 4.83 | 0.035 | 0.89 |
| **1012407** | 7 | 0.205 | 5.21 | 0.035 | 0.89 |
| **1012409** | 9 | 0.236 | 5.99 | 0.035 | 0.89 |



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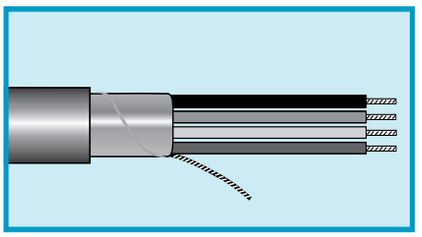
# Manhattan™ Computer Cable

## 300 V Foil Shield, Multiconductor, SR-PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- Computer and control applications

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart E (page 532)

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4602** | 2 | 0.159 | 4.04 | 0.032 | 0.81 |
| **M4603** | 3 | 0.166 | 4.22 | 0.032 | 0.81 |
| **M4604** | 4 | 0.178 | 4.52 | 0.032 | 0.81 |
| **M4606** | 6 | 0.204 | 5.18 | 0.032 | 0.81 |
| **M4607** | 8 | 0.217 | 5.51 | 0.032 | 0.81 |
| **M4608** | 10 | 0.247 | 6.27 | 0.032 | 0.81 |
| **M4610** | 15 | 0.273 | 6.93 | 0.032 | 0.81 |
| **M4612** | 20 | 0.301 | 7.65 | 0.032 | 0.81 |
| **M4614** | 25 | 0.335 | 8.51 | 0.032 | 0.81 |
| **M4616** | 30 | 0.353 | 8.97 | 0.032 | 0.81 |
| **M4618** | 40 | 0.393 | 9.98 | 0.032 | 0.81 |
| **M4620** | 50 | 0.430 | 10.92 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4633** | 2 | 0.171 | 4.34 | 0.032 | 0.81 |
| **M4634** | 3 | 0.179 | 4.55 | 0.032 | 0.81 |
| **M4635** | 4 | 0.192 | 4.88 | 0.032 | 0.81 |
| **M4636** | 6 | 0.222 | 5.64 | 0.032 | 0.81 |
| **M4638** | 8 | 0.237 | 6.02 | 0.032 | 0.81 |
| **M4640** | 10 | 0.271 | 6.88 | 0.032 | 0.81 |
| **M4642** | 15 | 0.301 | 7.65 | 0.032 | 0.81 |
| **M4644** | 20 | 0.333 | 8.46 | 0.032 | 0.81 |
| **M4646** | 25 | 0.371 | 9.42 | 0.032 | 0.81 |
| **M4648** | 30 | 0.392 | 9.96 | 0.032 | 0.81 |
| **M4650** | 40 | 0.436 | 11.07 | 0.032 | 0.81 |
| **M4652** | 50 | 0.479 | 12.17 | 0.032 | 0.81 |

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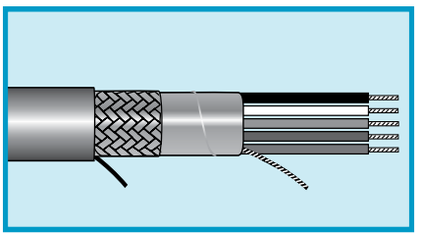
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Multiconductor, SR-PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- RS-232
- Modems
- Multiplexers
- Serial data interfaces

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% or 70% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### 65% Braid Coverage

**28 AWG (0.08 mm²)**

Stranding: 7/36 (7 x 0.12 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code D

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M2403** | 3 | 0.165 | 4.19 | 0.032 | 0.81 |
| **M2404** | 4 | 0.175 | 4.45 | 0.032 | 0.81 |
| **M2405** | 5 | 0.185 | 4.70 | 0.032 | 0.81 |
| **M2406** | 6 | 0.196 | 4.98 | 0.032 | 0.81 |
| **M2407** | 7 | 0.196 | 4.98 | 0.032 | 0.81 |
| **M2408** | 8 | 0.206 | 5.23 | 0.032 | 0.81 |
| **M2409** | 9 | 0.217 | 5.51 | 0.032 | 0.81 |
| **M2410** | 10 | 0.230 | 5.84 | 0.032 | 0.81 |
| **M2412** | 15 | 0.251 | 6.38 | 0.032 | 0.81 |
| **M2414** | 25 | 0.300 | 7.62 | 0.032 | 0.81 |
| **M2416** | 37 | 0.335 | 8.51 | 0.032 | 0.81 |
| **M2420** | 50 | 0.376 | 9.55 | 0.032 | 0.81 |

Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

### 70% Braid Coverage

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code E

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5302** | 2 | 0.181 | 4.60 | 0.032 | 0.81 |
| **M5303** | 3 | 0.188 | 4.78 | 0.032 | 0.81 |
| **M5304** | 4 | 0.199 | 5.05 | 0.032 | 0.81 |
| **M5306** | 6 | 0.226 | 5.74 | 0.032 | 0.81 |
| **M5307** | 8 | 0.239 | 6.07 | 0.032 | 0.81 |
| **M5308** | 10 | 0.269 | 6.83 | 0.032 | 0.81 |
| **M5310** | 15 | 0.295 | 7.49 | 0.032 | 0.81 |
| **M5312** | 20 | 0.323 | 8.20 | 0.032 | 0.81 |
| **M5314** | 25 | 0.357 | 9.07 | 0.032 | 0.81 |
| **M5316** | 30 | 0.375 | 9.53 | 0.032 | 0.81 |
| **M5318** | 40 | 0.415 | 10.54 | 0.032 | 0.81 |
| **M5320** | 50 | 0.452 | 11.48 | 0.032 | 0.81 |

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190.3 pF/m)

Part No. M5302:
Mutual capacitance: 35 pF/ft (114.8 pF/m)
Ground capacitance: 63 pF/ft (206.7 pF/m)



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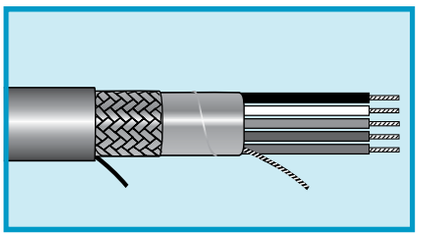
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Multiconductor, SR-PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- RS-232
- Modems
- Multiplexers
- Serial data interfaces

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% or 70% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### 65% Braid Coverage

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M2438** | 3 | 0.185 | 4.70 | 0.032 | 0.81 | O |
| **M2439** | 4 | 0.196 | 4.98 | 0.032 | 0.81 | O |
| **M2440** | 5 | 0.209 | 5.31 | 0.032 | 0.81 | O |
| **M2441** | 6 | 0.223 | 5.66 | 0.032 | 0.81 | O |
| **M2442** | 7 | 0.223 | 5.66 | 0.032 | 0.81 | O |
| **M2443** | 8 | 0.236 | 5.99 | 0.032 | 0.81 | O |
| **M2444** | 9 | 0.250 | 6.35 | 0.032 | 0.81 | O |
| **M2445** | 10 | 0.266 | 6.76 | 0.032 | 0.81 | O |
| **M2447** | 15 | 0.292 | 7.42 | 0.032 | 0.81 | F |
| **M2449** | 25 | 0.354 | 8.99 | 0.032 | 0.81 | F |
| **M2452** | 37 | 0.398 | 10.11 | 0.032 | 0.81 | F |
| **M2455** | 50 | 0.449 | 11.40 | 0.032 | 0.81 | F |

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190 pF/m)

### 70% Braid Coverage

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code E

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5333** | 2 | 0.193 | 4.90 | 0.032 | 0.81 |
| **M5334** | 3 | 0.201 | 5.11 | 0.032 | 0.81 |
| **M5335** | 4 | 0.214 | 5.44 | 0.032 | 0.81 |
| **M5336** | 6 | 0.244 | 6.20 | 0.032 | 0.81 |
| **M5338** | 8 | 0.259 | 6.58 | 0.032 | 0.81 |
| **M5340** | 10 | 0.293 | 7.44 | 0.032 | 0.81 |
| **M5342** | 15 | 0.323 | 8.20 | 0.032 | 0.81 |
| **M5344** | 20 | 0.355 | 9.02 | 0.032 | 0.81 |
| **M5346** | 25 | 0.393 | 9.98 | 0.032 | 0.81 |
| **M5348** | 30 | 0.414 | 10.52 | 0.032 | 0.81 |
| **M5350** | 40 | 0.458 | 11.63 | 0.032 | 0.81 |
| **M5352** | 50 | 0.501 | 12.73 | 0.032 | 0.81 |

Mutual capacitance: 36 pF/ft (118.1 pF/m)
Ground capacitance: 65 pF/ft (213.3 pF/m)

Part No. M5333:
Mutual capacitance: 39 pF/ft (128 pF/m)
Ground capacitance: 70 pF/ft (229.7 pF/m)

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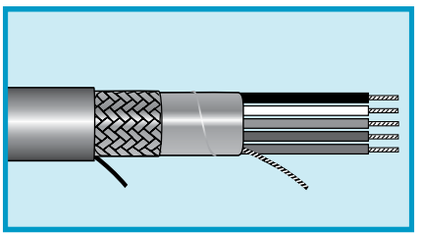
## 300 V Foil/Braid Shield, Multiconductor, SR-PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- RS-232
- Modems
- Multiplexers
- Serial data interfaces

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- See table

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% or 70% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### 65% Braid Coverage

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M2473** | 3 | 0.198 | 5.03 | 0.032 | 0.81 | O |
| **M2474** | 4 | 0.211 | 5.36 | 0.032 | 0.81 | O |
| **M2475** | 5 | 0.226 | 5.74 | 0.032 | 0.81 | O |
| **M2476** | 6 | 0.241 | 6.12 | 0.032 | 0.81 | O |
| **M2477** | 7 | 0.241 | 6.12 | 0.032 | 0.81 | O |
| **M2478** | 8 | 0.256 | 6.50 | 0.032 | 0.81 | O |
| **M2479** | 9 | 0.272 | 6.91 | 0.032 | 0.81 | O |
| **M2480** | 10 | 0.290 | 7.37 | 0.032 | 0.81 | O |
| **M2481** | 15 | 0.320 | 8.13 | 0.032 | 0.81 | F |
| **M2482** | 25 | 0.390 | 9.91 | 0.032 | 0.81 | F |
| **M2483** | 37 | 0.440 | 11.18 | 0.032 | 0.81 | F |
| **M2485** | 50 | 0.504 | 12.80 | 0.035 | 0.86 | F |

Mutual capacitance: 36 pF/ft (118.1 pF/m)
Ground capacitance: 65 pF/ft (213.3 pF/m)



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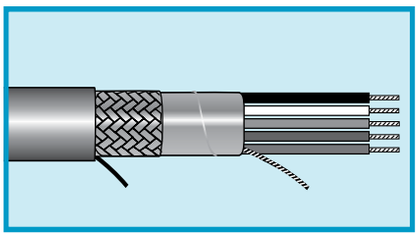
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Multiconductor, SR-PVC, PVC



**UL AWM 2343**
**UL CMG**
**CSA CMG FT4**

### Applications

- Computer and control applications

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart E (page 532)

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 70% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5500** | 5 | 0.274 | 6.96 | 0.063 | 1.60 |
| **M5501** | 7 | 0.288 | 7.32 | 0.063 | 1.60 |
| **M5502** | 12 | 0.338 | 8.59 | 0.063 | 1.60 |
| **M5503** | 15 | 0.357 | 9.07 | 0.063 | 1.60 |
| **M5504** | 19 | 0.375 | 9.53 | 0.063 | 1.60 |
| **M5505** | 27 | 0.426 | 10.82 | 0.063 | 1.60 |
| **M5506** | 37 | 0.463 | 11.76 | 0.063 | 1.60 |
| **M5507** | 48 | 0.514 | 13.06 | 0.063 | 1.60 |
| **M5508** | 60 | 0.551 | 14.00 | 0.063 | 1.60 |

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190 pF/m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5509** | 5 | 0.291 | 7.39 | 0.063 | 1.60 |
| **M5510** | 7 | 0.306 | 7.77 | 0.063 | 1.60 |
| **M5511** | 12 | 0.363 | 9.22 | 0.063 | 1.60 |
| **M5512** | 15 | 0.385 | 9.78 | 0.063 | 1.60 |
| **M5513** | 19 | 0.405 | 10.29 | 0.063 | 1.60 |
| **M5514** | 27 | 0.463 | 11.76 | 0.063 | 1.60 |
| **M5515** | 37 | 0.505 | 12.83 | 0.063 | 1.60 |
| **M5516** | 48 | 0.563 | 14.30 | 0.063 | 1.60 |
| **M5517** | 60 | 0.605 | 15.37 | 0.063 | 1.60 |

Mutual capacitance: 36 pF/ft (118.1 pF/m)
Ground capacitance: 65 pF/ft (213.3 pF/m)

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5518** | 5 | 0.312 | 7.92 | 0.063 | 1.60 |
| **M5519** | 7 | 0.330 | 8.38 | 0.063 | 1.60 |
| **M5520** | 12 | 0.396 | 10.06 | 0.063 | 1.60 |
| **M5521** | 15 | 0.421 | 10.69 | 0.063 | 1.60 |
| **M5522** | 19 | 0.445 | 11.30 | 0.063 | 1.60 |
| **M5523** | 27 | 0.512 | 13.00 | 0.063 | 1.60 |
| **M5524** | 37 | 0.561 | 14.25 | 0.063 | 1.60 |
| **M5525** | 48 | 0.628 | 15.95 | 0.063 | 1.60 |
| **M5526** | 60 | 0.683 | 17.35 | 0.063 | 1.60 |

Mutual capacitance: 40 pF/ft (131.2 pF/m)
Ground capacitance: 72 pF/ft (236.2 pF/m)

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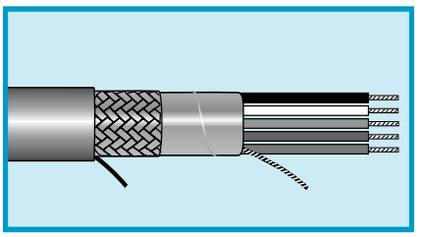
## 300 V Foil/Braid Shield, Low Capacitance, Multiconductor, FPE, PVC



**UL AWM 2919 (30 V)**
**UL CM VW-1**
**CSA CM FT4**

### Applications

- RS-232, RS-422
- Modems
- Multiplexers
- Serial data interfaces

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)

### Conductor Color Coding

- See table

### Materials

- Stranded tinned copper conductors
- Foam polyethylene insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **M2456** | 3 | 0.217 | 5.51 | 0.035 | 0.89 | O |
| **M2457** | 4 | 0.231 | 5.87 | 0.035 | 0.89 | O |
| **M2458** | 5 | 0.248 | 6.30 | 0.035 | 0.89 | O |
| **M2459** | 6 | 0.265 | 6.73 | 0.035 | 0.89 | O |
| **M2460** | 7 | 0.265 | 6.73 | 0.035 | 0.89 | O |
| **M2461** | 8 | 0.282 | 7.16 | 0.035 | 0.89 | O |
| **M2462** | 9 | 0.300 | 7.62 | 0.035 | 0.89 | O |
| **M2463** | 10 | 0.320 | 8.13 | 0.035 | 0.89 | O |
| **M2465** | 15 | 0.353 | 8.97 | 0.035 | 0.89 | F |
| **M2467** | 25 | 0.432 | 10.97 | 0.035 | 0.89 | F |
| **M2470** | 37 | 0.488 | 12.40 | 0.035 | 0.89 | F |

Mutual capacitance: 11.9 pF/ft (39 pF/m)
Ground capacitance: 21.4 pF/ft (70.2 pF/m)



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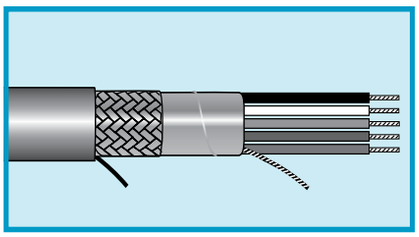
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Multiconductor, PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- Computer and control

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 70% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5360** | 2 | 0.233 | 5.92 | 0.032 | 0.81 |
| **M5361** | 3 | 0.241 | 6.12 | 0.032 | 0.81 |
| **M5362** | 4 | 0.262 | 6.65 | 0.032 | 0.81 |
| **M5364** | 6 | 0.304 | 7.72 | 0.032 | 0.81 |
| **M5365** | 8 | 0.326 | 8.28 | 0.032 | 0.81 |
| **M5366** | 10 | 0.373 | 9.47 | 0.032 | 0.81 |
| **M5368** | 15 | 0.415 | 10.54 | 0.032 | 0.81 |
| **M5370** | 20 | 0.459 | 11.66 | 0.032 | 0.81 |
| **M5372** | 25 | 0.513 | 13.03 | 0.032 | 0.81 |
| **M5375** | 40 | 0.653 | 16.59 | 0.053 | 1.35 |
| **M5377** | 50 | 0.713 | 18.11 | 0.053 | 1.35 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5390** | 2 | 0.251 | 6.38 | 0.032 | 0.81 |
| **M5391** | 3 | 0.263 | 6.68 | 0.032 | 0.81 |
| **M5392*** | 2 | 0.251 | 6.38 | 0.032 | 0.81 |
| **M5393*** | 3 | 0.263 | 6.68 | 0.032 | 0.81 |
| **M5394** | 4 | 0.284 | 7.21 | 0.032 | 0.81 |
| **M5396** | 6 | 0.328 | 8.33 | 0.032 | 0.81 |
| **M5397** | 8 | 0.356 | 9.04 | 0.032 | 0.81 |
| **M5398** | 10 | 0.409 | 10.39 | 0.032 | 0.81 |
| **M5400** | 15 | 0.456 | 11.58 | 0.032 | 0.81 |
| **M5402** | 20 | 0.507 | 12.88 | 0.032 | 0.81 |
| **M5404** | 25 | 0.609 | 15.47 | 0.053 | 1.35 |
| **M5406** | 30 | 0.648 | 16.46 | 0.053 | 1.35 |

*Conductor color coding: 1 Brown, 2 Blue, 3 Green/Yellow.

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5420** | 2 | 0.275 | 6.99 | 0.032 | 0.81 |
| **M5421** | 3 | 0.289 | 7.34 | 0.032 | 0.81 |
| **M5422*** | 2 | 0.275 | 6.99 | 0.032 | 0.81 |
| **M5423*** | 3 | 0.289 | 7.34 | 0.032 | 0.81 |
| **M5424** | 4 | 0.313 | 7.95 | 0.032 | 0.81 |
| **M5426** | 6 | 0.367 | 9.32 | 0.032 | 0.81 |
| **M5428** | 8 | 0.396 | 10.06 | 0.032 | 0.81 |
| **M5430** | 10 | 0.457 | 11.61 | 0.032 | 0.81 |
| **M5432** | 15 | 0.511 | 12.98 | 0.032 | 0.81 |
| **M5434** | 20 | 0.611 | 15.52 | 0.053 | 1.35 |
| **M5436** | 25 | 0.687 | 17.45 | 0.053 | 1.35 |

*Conductor color coding: 1 Brown, 2 Blue, 3 Green/Yellow.

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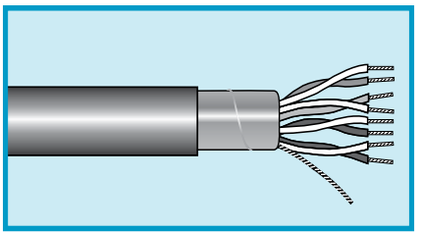
# Manhattan™ Computer Cable

## 300 V Foil Shield, Multipair, PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- Modems
- Multiplexers
- General data interfaces

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Solid or stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**22 AWG (0.35 mm²)**

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3191** | 51 | 0.710 | 18.03 | 0.050 | 1.27 |
| **M3192** | 102 | 1.120 | 28.45 | 0.085 | 2.16 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4785** | 2 | 0.301 | 7.65 | 0.032 | 0.81 |
| **M4786** | 3 | 0.319 | 8.10 | 0.032 | 0.81 |
| **M4789** | 12 | 0.548 | 13.92 | 0.032 | 0.81 |
| **M4791** | 19 | 0.688 | 17.48 | 0.053 | 1.35 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4799** | 2 | 0.330 | 8.38 | 0.032 | 0.81 |
| **M4793** | 3 | 0.350 | 8.89 | 0.032 | 0.81 |
| **M4794** | 6 | 0.462 | 11.73 | 0.032 | 0.81 |



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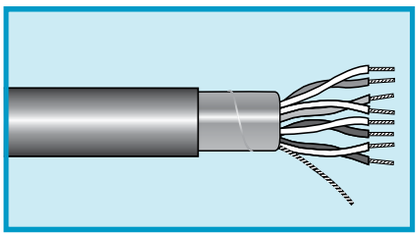
# Manhattan™ Computer Cable

## 300 V Foil Shield, Multipair, SR-PVC or PP, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- RS-232
- Modems
- Multiplexers
- Serial data interfaces

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- See tables

### Materials

- Solid or stranded tinned copper conductors
- Semirigid PVC or polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### SR-PVC Insulation

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code K

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M13190** | 1 | 0.159 | 4.04 | 0.032 | 0.81 |
| **M13191** | 2 | 0.215 | 5.46 | 0.032 | 0.81 |
| **M13192** | 3 | 0.227 | 5.77 | 0.032 | 0.81 |
| **M13193** | 4 | 0.246 | 6.25 | 0.032 | 0.81 |
| **M13194** | 5 | 0.267 | 6.78 | 0.032 | 0.81 |
| **M13195** | 6 | 0.289 | 7.34 | 0.032 | 0.81 |
| **M13196** | 7 | 0.289 | 7.34 | 0.032 | 0.81 |
| **M13197** | 8 | 0.311 | 7.90 | 0.032 | 0.81 |
| **M13198** | 9 | 0.334 | 8.48 | 0.032 | 0.81 |
| **M13199** | 10 | 0.360 | 9.14 | 0.032 | 0.81 |
| **M4758*** | 11 | 0.360 | 9.14 | 0.032 | 0.81 |
| **M13200** | 15 | 0.402 | 10.21 | 0.032 | 0.81 |
| **M3189** | 19 | 0.432 | 10.97 | 0.032 | 0.81 |
| **M13201** | 25 | 0.510 | 12.95 | 0.035 | 0.89 |
| **M4761*** | 27 | 0.515 | 13.08 | 0.032 | 0.89 |
| **M13202**** | 50 | 0.666 | 16.92 | 0.035 | 0.89 |

*Color code Chart B (page 528)
**Color code Chart A1 (page 528)

### SR-PVC Insulation

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code B

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M4770** | 2 | 0.235 | 5.97 | 0.032 | 0.81 |
| **M4771** | 3 | 0.248 | 6.30 | 0.032 | 0.81 |
| **M4772** | 4 | 0.269 | 6.83 | 0.032 | 0.81 |
| **M4773** | 5 | 0.293 | 7.44 | 0.032 | 0.81 |
| **M4774** | 6 | 0.318 | 8.08 | 0.032 | 0.81 |
| **M4775** | 9 | 0.369 | 9.37 | 0.032 | 0.81 |
| **M4776** | 11 | 0.399 | 10.13 | 0.032 | 0.81 |
| **M4777** | 15 | 0.448 | 11.38 | 0.032 | 0.81 |
| **M4778** | 19 | 0.481 | 12.22 | 0.032 | 0.81 |
| **M4779** | 27 | 0.618 | 15.70 | 0.053 | 1.35 |

### Polypropylene Insulation

**22 AWG (0.35 mm²)**

Stranding: Solid
Insulation thickness: 0.008 (0.20 mm)
Color Code K

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3190** | 38 | 0.610 | 15.49 | 0.045 | 1.14 |

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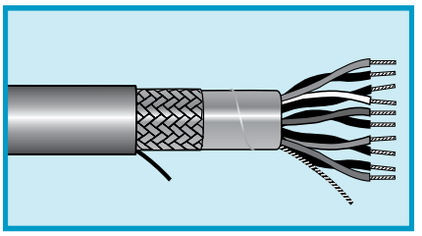
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Multipair, SR-PVC, PVC



**UL AWM 1061**
**UL AWM 2343**
**UL CMG**
**CSA CMG FT4**

### Applications

- Control, signal, and data transmission computers
- Industrial and electronic equipment

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- Chart B (page 528)

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 70% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5650** | 5 | 0.351 | 8.92 | 0.063 | 1.60 |
| **M5651** | 7 | 0.373 | 9.47 | 0.063 | 1.60 |
| **M5652** | 12 | 0.455 | 11.56 | 0.063 | 1.60 |
| **M5653** | 15 | 0.486 | 12.34 | 0.063 | 1.60 |
| **M5654** | 19 | 0.516 | 13.11 | 0.063 | 1.60 |
| **M5655** | 27 | 0.599 | 15.21 | 0.063 | 1.60 |
| **M5656** | 37 | 0.666 | 16.92 | 0.063 | 1.60 |

Mutual capacitance: 23.1 pF/ft (75.8 pF/m)
Ground capacitance: 42 pF/ft (137.8 pF/m)

Part No. M5650
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M5660** | 5 | 0.377 | 9.58 | 0.063 | 1.60 |
| **M5661** | 7 | 0.402 | 10.21 | 0.063 | 1.60 |
| **M5662** | 12 | 0.496 | 12.60 | 0.063 | 1.60 |
| **M5665** | 27 | 0.666 | 16.92 | 0.063 | 1.60 |
| **M5666** | 37 | 0.735 | 18.67 | 0.063 | 1.60 |

Ground capacitance: 49 pF/ft (160.8 pF/m)

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | Mm |
| **M5670** | 5 | 0.413 | 10.49 | 0.063 | 1.60 |
| **M5671** | 7 | 0.442 | 11.23 | 0.063 | 1.60 |
| **M5673** | 15 | 0.592 | 15.04 | 0.063 | 1.60 |
| **M5674** | 19 | 0.631 | 16.03 | 0.063 | 1.60 |
| **M5675** | 27 | 0.746 | 18.95 | 0.063 | 1.60 |

Mutual capacitance: 27 pF/ft (88.6 pF/m)
Ground capacitance: 49 pF/ft (160.8 pF/m)

Part No. M5670
Mutual capacitance: 29 pF/ft (95.1 pF/m)
Ground capacitance: 52 pF/ft (170.6pF/m)



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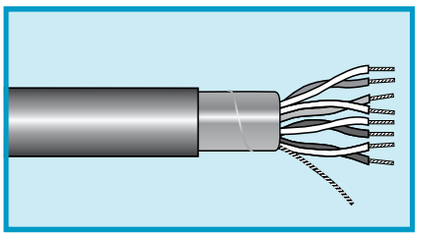
# Manhattan™ Computer Cable

## 300 V Foil Shield, Low Capacitance, 100 ohm, Multipair, FPP, PVC



**UL AWM 2493**
**UL CM**
**CSA CM FT4**

### Applications

- RS-232
- RS-422

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60°C (AWM)

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.0185 (0.47 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M39249** | 2 | 0.323 | 8.20 | 0.048 | 1.22 |
| **M39250** | 3 | 0.340 | 8.64 | 0.048 | 1.22 |
| **M39251** | 4 | 0.369 | 9.37 | 0.048 | 1.22 |
| **M39252** | 6 | 0.436 | 11.07 | 0.048 | 1.22 |
| **M39254** | 9 | 0.506 | 12.85 | 0.048 | 1.22 |
| **M39256** | 11 | 0.580 | 14.73 | 0.065 | 1.65 |
| **M39257** | 12 | 0.597 | 15.16 | 0.065 | 1.65 |
| **M39259** | 15 | 0.646 | 16.41 | 0.065 | 1.65 |
| **M39260** | 17 | 0.682 | 17.32 | 0.065 | 1.65 |
| **M39262** | 19 | 0.693 | 17.60 | 0.065 | 1.65 |
| **M39268** | 27 | 0.821 | 20.85 | 0.065 | 1.65 |

Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 23 pF/ft (75.5 pF/m)

Part No. 39256
Mutual capacitance: 11.9 pF/ft (39 pF/m)
Ground capacitance: 21.4 pF/ft (70.2 pF/m)

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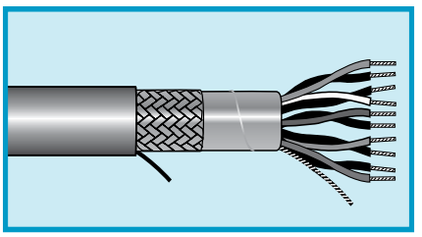
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Multipair, FPP, PVC



**UL AWM 2919 (30 V)**
**UL CM**
**CSA CM**

### Applications

- RS-422
- Modems
- Multiplexers

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)

### Conductor Color Coding

- Chart M (page 530)

### Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.0145 (0.37 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M2487** | 2 | 0.240 | 6.10 | 0.035 | 0.89 |
| **M2488** | 3 | 0.252 | 6.40 | 0.035 | 0.89 |
| **M2489** | 4 | 0.271 | 6.88 | 0.035 | 0.89 |
| **M2490** | 5 | 0.292 | 7.42 | 0.035 | 0.89 |
| **M2492** | 7 | 0.314 | 7.98 | 0.035 | 0.89 |
| **M2493** | 8 | 0.336 | 8.53 | 0.035 | 0.89 |
| **M2494** | 10 | 0.385 | 9.78 | 0.035 | 0.89 |
| **M2495*** | 12.5 | 0.395 | 10.03 | 0.035 | 0.89 |
| **M2496** | 15 | 0.427 | 10.85 | 0.035 | 0.89 |
| **M2497** | 18 | 0.457 | 11.61 | 0.035 | 0.89 |
| **M2498** | 25 | 0.555 | 14.10 | 0.048 | 1.22 |

Mutual capacitance: 11 pF/ft (36.1 pF/m)
Ground capacitance: 20 pF/ft (65.6 pF/m)

*Discrete conductor is polyethylene insulated.

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.0125 (0.32 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3420** | 2 | 0.257 | 6.53 | 0.035 | 0.89 |
| **M3421** | 3 | 0.269 | 6.83 | 0.035 | 0.89 |
| **M3422** | 4 | 0.290 | 7.37 | 0.035 | 0.89 |
| **M3423** | 5 | 0.314 | 7.98 | 0.035 | 0.89 |
| **M3424** | 6 | 0.338 | 8.59 | 0.035 | 0.89 |
| **M3425** | 7 | 0.338 | 8.59 | 0.035 | 0.89 |
| **M3426** | 8 | 0.363 | 9.22 | 0.035 | 0.89 |
| **M3427** | 10 | 0.417 | 10.59 | 0.035 | 0.89 |
| **M3428*** | 12.5 | 0.429 | 10.90 | 0.035 | 0.89 |
| **M3429** | 15 | 0.475 | 12.07 | 0.040 | 1.02 |
| **M3430** | 18 | 0.524 | 13.31 | 0.048 | 1.22 |
| **M3431** | 25 | 0.608 | 15.44 | 0.050 | 1.27 |

Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72.2 pF/m)

*Discrete conductor is polyethylene insulated.



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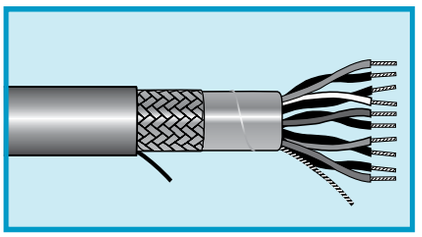
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Low Capacitance, Multipair, FPP, PVC



**UL AWM 2343**
**UL CM**
**CSA CM**

### Applications

- RS-422
- Modems
- Multiplexers

### Operating Temperature

- -20°C to +75°C (AWM)
- -20°C to +75°C (CM)

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.0185 (0.47 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3475** | 2 | 0.346 | 8.79 | 0.048 | 1.22 |
| **M3476** | 3 | 0.363 | 9.22 | 0.048 | 1.22 |
| **M3477** | 4 | 0.392 | 9.96 | 0.048 | 1.22 |
| **M3478** | 5 | 0.425 | 10.80 | 0.048 | 1.22 |
| **M3479** | 6 | 0.459 | 11.66 | 0.048 | 1.22 |
| **M3480** | 7 | 0.459 | 11.66 | 0.048 | 1.22 |
| **M3481** | 8 | 0.494 | 12.55 | 0.048 | 1.22 |
| **M3482** | 10 | 0.603 | 15.32 | 0.065 | 1.65 |
| **M3483** | 15 | 0.669 | 16.99 | 0.065 | 1.65 |
| **M3484** | 18 | 0.716 | 18.19 | 0.065 | 1.65 |
| **M3485** | 25 | 0.832 | 21.13 | 0.065 | 1.65 |

Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 23 pF/ft (23 pF/m)

Part No. M3484 and 3485:
Mutual capacitance: 11.9 pF/ft (39 pF/m)
Ground capacitance: 21.4 pF/ft (21.4 pF/m)

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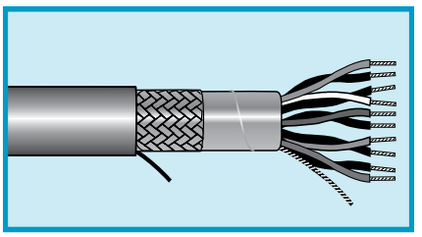
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Low Capacitance, 100 Ohm, Multipair, PE, PVC



**UL AWM 2960 (30 V)**
**UL 2919 (30 V)**
**UL CM**
**CSA CM**

### Applications

- RS-422
- Modems
- Multiplexers

### Operating Temperature

- -20°C to +80°C (AWM 2919)
- -20°C to +75°C (CM)
- -20°C to +60°C (AWM 2960)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 90% coverage (65% where noted)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### UL AWM 2960, CM

**28 AWG (0.08 mm²)**

Stranding: 7/36 (7 x 0.12 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code K

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3970** | 2 | 0.205 | 5.21 | 0.032 | 0.81 |
| **M3971** | 3 | 0.214 | 5.44 | 0.032 | 0.81 |
| **M3972** | 4 | 0.229 | 5.82 | 0.032 | 0.81 |
| **M3973** | 5 | 0.246 | 6.25 | 0.032 | 0.81 |
| **M3974** | 7 | 0.263 | 6.68 | 0.032 | 0.81 |
| **M3975** | 9 | 0.299 | 7.59 | 0.032 | 0.81 |
| **M3977** | 12 | 0.329 | 8.36 | 0.032 | 0.81 |
| **M3931** | 13 | 0.335 | 8.51 | 0.032 | 0.81 |
| **M3978** | 18 | 0.377 | 9.58 | 0.032 | 0.81 |
| **M3979** | 25 | 0.440 | 11.18 | 0.032 | 0.81 |
| **M3932** | 31 | 0.470 | 11.94 | 0.032 | 0.81 |

Mutual capacitance: 15.5 pF/ft (50.9 pF/m)
Ground capacitance: 27.5 pF/ft (90.2 pF/m)

### UL AWM 2919, CM

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.25 mm)
Color Code M

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M3993†** | 1 | 0.208 | 5.28 | 0.035 | 0.89 |
| **M3980*** | 2 | 0.274 | 6.96 | 0.032 | 0.81 |
| **M3990†** | 2 | 0.280 | 7.11 | 0.035 | 0.89 |
| **M3981*** | 3 | 0.288 | 7.32 | 0.032 | 0.81 |
| **M3991†** | 3 | 0.294 | 7.47 | 0.035 | 0.89 |
| **M3982*** | 4 | 0.312 | 7.92 | 0.032 | 0.81 |
| **M3992†** | 4 | 0.318 | 8.08 | 0.035 | 0.89 |
| **M3983*** | 5 | 0.339 | 8.61 | 0.032 | 0.81 |
| **M3940*** | 6 | 0.367 | 9.32 | 0.032 | 0.81 |
| **M3984*** | 7 | 0.367 | 9.32 | 0.032 | 0.81 |
| **M3985*** | 9 | 0.424 | 10.77 | 0.032 | 0.81 |
| **M3986*** | 10 | 0.457 | 11.61 | 0.032 | 0.81 |
| **M3987*** | 12 | 0.482 | 12.24 | 0.037 | 0.94 |
| **M3988*** | 18 | 0.560 | 14.22 | 0.047 | 1.19 |
| **M3989*** | 25 | 0.671 | 17.04 | 0.047 | 1.19 |

Mutual capacitance: 15.5 pF/ft (50.9 pF/m)
Ground capacitance: 27.5 pF/ft (90.2 pF/m)

†120-ohm impedance
Mutual capacitance: 12.8 pF/ft (42 pF/m)
Ground capacitance: 23 pF/ft (75 pF/m)

*65% braid coverage.



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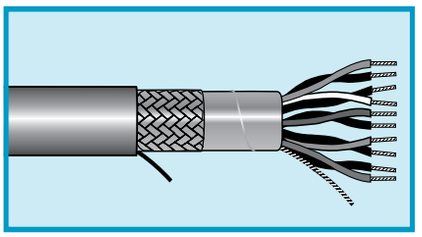
# Manhattan™ Computer Cable

## 300 V Foil/Braid Shield, Multipair, SR-PVC, PVC



**UL AWM 2464**
**UL CMG**
**CSA CMG FT4**

### Applications

- RS-422
- Modems
- Multiplexers

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CMG)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire, 24 AWG (0.22 mm²), 7/32 (7 x 0.20 mm) stranding
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code M

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | Capacitance | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Mutual | | Ground | |
| | | Inch | mm | Inch | mm | pF/ft | pF/m | pF/ft | pF/m |
| **M3446** | 2 | 0.234 | 5.94 | 0.032 | 0.81 | 28 | 92 | 50 | 164 |
| **M3447** | 3 | 0.246 | 6.25 | 0.032 | 0.81 | 25 | 82 | 45 | 147.6 |
| **M3448** | 4 | 0.265 | 6.73 | 0.032 | 0.81 | 25 | 82 | 45 | 147.6 |
| **M3449** | 5 | 0.286 | 7.26 | 0.032 | 0.81 | 25 | 82 | 45 | 147.6 |
| **M3450** | 6 | 0.308 | 7.82 | 0.032 | 0.81 | 23.1 | 75.8 | 42 | 137.8 |
| **M3451** | 7 | 0.308 | 7.82 | 0.032 | 0.81 | 23.1 | 75.8 | 42 | 137.8 |
| **M3452** | 8 | 0.330 | 8.38 | 0.032 | 0.81 | 23.1 | 75.8 | 42 | 137.8 |
| **M3453** | 10 | 0.379 | 9.63 | 0.032 | 0.81 | 23.1 | 75.8 | 42 | 137.8 |
| **M3454** | 12 | 0.389 | 9.88 | 0.032 | 0.81 | 23.1 | 75.8 | 42 | 137.8 |
| **M3455** | 15 | 0.421 | 10.69 | 0.032 | 0.81 | 23.1 | 75.8 | 42 | 137.8 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Color Code A

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | Capacitance | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Mutual | | Ground | |
| | | Inch | mm | Inch | mm | pF/ft | pF/m | pF/ft | pF/m |
| **M3433** | 2 | 0.254 | 6.45 | 0.032 | 0.81 | 31 | 101.7 | 56 | 183.7 |
| **M3434** | 3 | 0.267 | 6.78 | 0.032 | 0.81 | 27 | 88.6 | 49 | 160.8 |
| **M3435** | 4 | 0.288 | 7.32 | 0.032 | 0.81 | 27 | 88.6 | 49 | 160.8 |
| **M3436** | 5 | 0.312 | 7.92 | 0.032 | 0.81 | 27 | 88.6 | 49 | 160.8 |
| **M3437** | 6 | 0.337 | 8.56 | 0.032 | 0.81 | 27 | 88.6 | 49 | 160.8 |
| **M3438** | 7 | 0.337 | 8.56 | 0.032 | 0.81 | 24.9 | 81.7 | 45 | 147.6 |
| **M3439** | 8 | 0.363 | 9.22 | 0.032 | 0.81 | 24.9 | 81.7 | 45 | 147.6 |
| **M3440** | 10 | 0.418 | 10.62 | 0.032 | 0.81 | 24.9 | 81.7 | 45 | 147.6 |
| **M3441** | 12 | 0.430 | 10.92 | 0.032 | 0.81 | 24.9 | 81.7 | 45 | 147.6 |
| **M3442** | 15 | 0.473 | 12.01 | 0.035 | 0.81 | 24.9 | 81.7 | 45 | 147.6 |
| **M3443** | 18 | 0.506 | 12.85 | 0.035 | 0.81 | 24.9 | 81.7 | 45 | 147.6 |
| **M3444** | 25 | 0.588 | 14.94 | 0.035 | 0.81 | 24.9 | 81.7 | 45 | 147.6 |

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# Manhattan™ Coaxial Cable

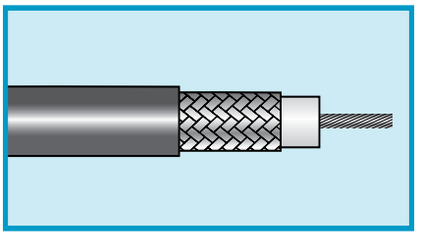
## Coaxial and Twinax Cable

For a complete range of 50, 75, 93, and 100 ohm coaxial and twinaxial, we offer a wide range of insulations and jackets meeting the requirements of military specifications and regulatory agencies such as UL and CSA.

For broadcast-quality video transmission, our precision video cables use FEP dielectrics to achieve low capacitance, high velocities of propagation, and tight tolerances for maximum signal integrity.

## Availability

A. 100 ft (30.5 m)
B. 500 ft (152 m)
C. 500 ft (152 m) boxed
D. 1000 ft (305 m)
E. 1000 ft (305 m) boxed
F. 2000 ft (610 m)
G. Bulk, cut to length
(Minimums may apply)



**50-Ohm Transmission and Computer Cables**

**RG-55B/U, RG-58/U, RG-58A/U, and RG-58C/U Coaxial Cables**

| Part No. | Center Conductor | | | Dielectric | | Shield Material, Coverage | Jacket | |
|---|---|---|---|---|---|---|---|---|
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9058** | 20 (0.52) | Solid | BC | PE | 0.116 (2.95) | TC Braid, 80% | Black Type I PVC | 0.195 (4.95) |
| **9058A** | 20 (0.48) | 19/0.0071 (19 x 0.18) | TC | PE | 0.116 (2.95) | TC Braid, 95% | Black Type I PVC | 0.195 (4.95) |
| **9058AC** | 20 (0.48) | 19/0.0071 (19 x 0.18) | TC | PE | 0.116 (2.95) | TC Braid, 95% | Black Type I PVC | 0.195 (4.95) |
| **9058C** | 20 (0.48) | 19/0.0072 (19 x 0.18) | TC | PE | 0.116 (2.95) | TC Braid, 95% | Black Type IIA PVC | 0.195 (4.95) |
| **9058X** | 20 (0.52) | Solid | BC | PE | 0.116 (2.95) | TC Braid, 95% | Black Type I PVC | 0.195 (4.95) |
| **9158S** | 20 (0.52) | Solid | BC | FEP | 0.107 (2.72) | TC Braid, 95% | Black FEP | 0.159 (4.04) |
| **M4210** | 20 (0.62) | 19/32 (19 x 0.20) | TC | Foam PE | 0.116 (2.95) | TC Braid, 93% | Black or White Type I PVC | 0.193 (4.90) |
| **M4213** | 20 (0.48) | 19/0.0072 (19 x 0.18) | TC | PE | 0.116 (2.95) | TC Braid, 94% | Black Type IIA PVC | 0.195 (4.95) |
| **M4219** | 20 (0.48) | 19/0.0071 (19 x 0.18) | TC | PE | 0.117 (2.97) | TC Braid, 91% | Black Type I PVC | 0.203 (5.16) |
| **M44209** | 20 (0.52) | Solid | BC | FEP | 0.107 (2.72) | TC Braid, 95% | White Plenum PVC | 0.159 (4.04) |
| **9848** | 18 (0.82) | Solid | BC | Foam PE | 0.116 (2.95) | TC Braid, 95% | Black Type I PVC | 0.195 (4.95) |

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# Manhattan™ Coaxial Cable

| 50-Ohm Transmission and Computer Cables<br>RG-55B/U, RG-58/U, RG-58A/U, and RG-58C/U Coaxial Cables | | | | | |
|---|---|---|---|---|---|
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9058** | 53 | 66 | 28.5 (93.5) | UL AWM 1354<br>JAN-C-17A/RG-58/U | A, B, D |
| **9058A** | 50 | 66 | 30.8 (101.1) | JAN-C-17A/RG-58A/U Type | A, B, C, D, E |
| **9058AC** | 50 | 66 | 30.8 (101.1) | CL2<br>JAN-C-17A/RG-58A/U Type | A, B, D, E |
| **9058C** | 50 | 66 | 30.8 (101.1) | MIL-DTL-17/28B<br>RG 58C/U | A, B, D, E |
| **9058X** | 53.5 | 66 | 28.5 (93.5) | UL AWM 1354<br>UL CL2<br>JAN-C-17A/RG-58/U | A, B, C, D, E |
| **9158S** | 50 | 70 | 30 (98.4) | UL CL2P<br>CSA CMP FT6<br>MIL-DTL-17/28 RG-58/U Type | B, D |
| **M4210** | 52 | 76 | 26 (85.3) | UL AWM 1354<br>UL CM<br>CSA CM<br>JAN-C-17A/RG-58/U | A, B, D |
| **M4213** | 50 | 66 | 30.8 (101.1) | MIL-DTL-17/28B RG-58C/U | A, B, D |
| **M4219** | 50 | 66 | 30.8 (101.1) | UL CM<br>CSA CM<br>JAN-C-17A/RG-58A/U Type | A, B, D |
| **M44209** | 53 | 69.5 | 26.4 (86.6) | UL CMP<br>CSA CMP FT6<br>MIL-DTL-17/RG-58/U Type | A, B, D, G |
| **9848** | 50 | 78 | 26 (85.3) | UL AWM 1354<br>MIL-DTL-17/28B RG-58/U Type | A, B, D, E |

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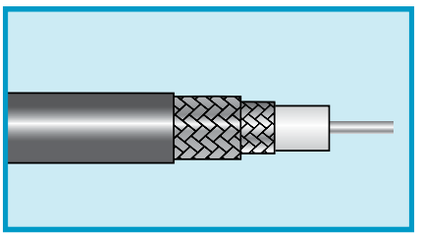
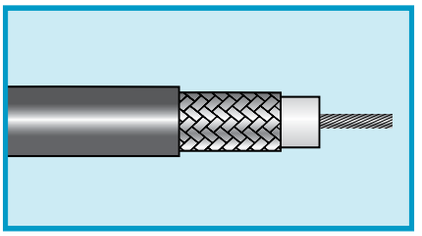
# Manhattan™ Coaxial Cable



| 50-Ohm Transmission and Computer Cables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RG-55B/U Coaxial Cables | | | | | | | | |
| Part No. | Center Conductor | | | Dielectric | | Shield Material, Coverage | Jacket | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9055B** | 20 (0.52) | Solid | SPC | PE | 0.116 (2.95) | Dbl TC Braid, 95% | Black PE | 0.201 (5.11) |



| 50-Ohm Transmission and Computer Cables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RG-8/U and RG-8A/U Type Coaxial Cables | | | | | | | | |
| Part No. | Center Conductor | | | Dielectric | | Shield Material, Coverage | Jacket | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9008** | 13 (2.90) | 7/21 (7 x 0.72) | BC | PE | 0.285 (7.24) | BC Braid, 94% | Black Type I PVC | 0.405 (10.29) |
| **M4201** | 13 (2.90) | 7/21 (7 x 0.72) | BC | PE | 0.285 (7.24) | BC Braid, 95% | Black Type IIA PVC | 0.405 (10.29) |
| **M4206** | 11 (4.60) | 7/19 (7 x 0.91) | BC | Foam PE | 0.285 (7.24) | BC Braid, 96% | Black PVC | 0.403 (10.24) |

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| 50-Ohm Transmission and Computer Cables | | | | | |
|---|---|---|---|---|---|
| **RG-55B/U Coaxial Cables** | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9055B** | 53.5 | 66 | 28.8 (94.5) | MIL-DTL-17D/26A RG-55B/U | A, B, D |

| 50-Ohm Transmission and Computer Cables | | | | | |
|---|---|---|---|---|---|
| **RG-8/U and RG-8A/U Type Coaxial Cables** | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9008** | 52 | 66 | 29.5 (96.8) | JAN-C-17A/RG-8/U | A, B, D |
| **M4201** | 52 | 66 | 28.5 (93.5) | UL AWM 1354<br>UL CMX<br>CSA CMX<br>MIL-DTL-17D/3A RG-8A/U | A, B, D |
| **M4206** | 50 | 78 | 26 (85.3) | UL AWM 1354<br>UL CM<br>CSA CM<br>MIL-DTL-17/RG-8/U Type | A, B, D |

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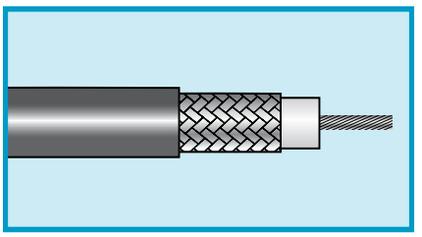
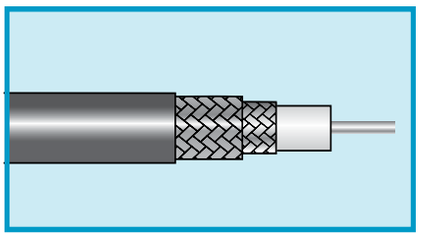
# Manhattan™ Coaxial Cable





| 50-Ohm Transmission and Computer Cables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **RG-142B/U, RG-174 Type, RG-178B/U, RG-188A/U, RG-196A/U, RG-213 Type, RG-214 Type, RG-217/U, RG-223/U, RG-316/U Coaxial Cables** | | | | | | | | |
| **Part No.** | **Center Conductor** | | | **Dielectric** | | **Shield Material, Coverage** | **Jacket** | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9178B** | 30 (0.05) | 7/38 (7 x 0.10) | SCW | PTFE | 0.034 (0.86) | SPC Braid, 94% | Natural Tan FEP | 0.071 (1.80) |
| **9196A** | 30 (0.05) | 7/38 (7 x 0.10) | SCW | PTFE | 0.034 (0.86) | SPC Braid, 94% | Natural PTFE Tape | 0.075 (1.91) |
| **9174** | 26 (0.14) | 7/34 (7 x 0.16) | BCW | PE | 0.060 (1.52) | TC Braid, 85% | Black or Red Type I PVC | 0.102 (2.59) |
| **9188A** | 25 (0.16) | 7/0.0067 (7 x 0.17) | SCW | PTFE | 0.060 (1.52) | SPC Braid, 94% | White PTFE Tape | 0.105 (2.67) |
| **9316** | 25 (0.16) | 7/0.0067 (7 x 0.17) | SCW | PTFE | 0.060 (1.52) | SPC Braid, 94% | Natural Tan FEP | 0.098 (2.49) |
| **9223** | 19 (0.62) | Solid | SPC | PE | 0.116 (2.95) | Dbl SPC Braid, 95% | Black Type IIA PVC | 0.212 (5.38) |
| **M4251** | 19 (0.69) | Solid | SCW | PTFE | 0.116 (2.95) | Dbl SPC Braid, 95% | Natural Tan FEP | 0.195 (4.95) |
| **9213** | 13 (3.11) | 7/0.0296 (7 x 0.75) | BC | PE | 0.285 (7.24) | BC Braid, 96% | Black Type IIA PVC | 0.405 (10.29) |
| **9214** | 13 (3.11) | 7/0.0296 (7 x 0.75) | SPC | PE | 0.285 (7.34) | Dbl SPC Braid, 95% | Black Type IIA PVC | 0.425 (10.80) |
| **9217** | 10 (5.70) | Solid | BC | PE | 0.370 (9.40) | Dbl BC Braid, 95% | Black Type IIA PVC | 0.545 (13.84) |

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| 50-Ohm Transmission and Computer Cables | | | | | |
|---|---|---|---|---|---|
| RG-142B/U, RG-174 Type, RG-178B/U, RG-188A/U, RG-196A/U, RG-213 Type, RG-214 Type, RG-217/U, RG-223/U, RG-316/U Coaxial Cables | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9178B** | 50 | 70 | 29.3 (96.1) | MIL-DTL-17/RG-178B/U | A, B, D, G |
| **9196A** | 50 | 70 | 29.3 (96.1) | MIL-DTL-17/RG-196A/U | A, B, D, G |
| **9174** | 50 | 66 | 30.8 (101.1) | UL AWM 1354<br>MIL-DTL-17D/119F RG-174/U | A, B, D |
| **9188A** | 50 | 70 | 29.3 (96.1) | MIL-DTL-17/69B RG-188A/U | A, B, D, G |
| **9316** | 50 | 70 | 29.3 (96.1) | AWM 1971<br>CSA CMX FT4<br>MIL-DTL-17 M17/113 RG-316 | A, B, D, G |
| **9223** | 50 | 66 | 30.8 (101.1) | MIL-DTL-17D/84B RG-223/U | A, B, D |
| **M4251** | 50 | 70 | 29 (95.1) | MIL-DTL-17/RG-142B/U | A, B, D, G |
| **9213** | 50 | 66 | 30.8 (101.1) | MIL-DTL-17/74A RG-213 Type | A, B, D |
| **9214** | 50 | 66 | 30.8 (101.1) | AWM 1354<br>MIL-DTL-17/75D RG-214/U | A, B, D, G |
| **9217** | 50 | 66 | 30.8 (101.1) | MIL-DTL-17D/78A RG-217/U | A, B, D, G |

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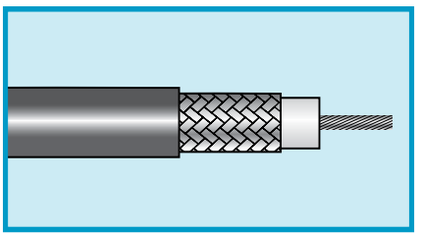
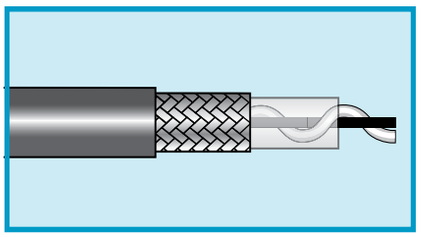


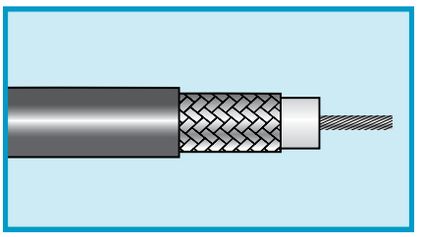


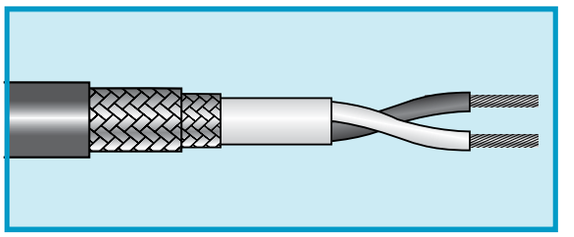
**93-Ohm Coaxial Cables**

**RG-62A/U, RG-22B/U Coaxial Cables**

| Part No. | Center Conductor | | | Dielectric | | Shield Material, Coverage | Jacket | |
|---|---|---|---|---|---|---|---|---|
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9062A** | 22 (0.32) | Solid | BCW | Semisolid PE | 0.146 (3.71) | BC Braid, 95% | Black Type IIA PVC | 0.242 (6.15) |
| **9062AC** | 22 (0.32) | Solid | BCW | Semisolid PE | 0.146 (3.71) | BC Braid, 95% | Black Type IIA PVC* | 0.242 (6.15) |
| **M4276** | 22 (0.32) | Solid | BCW | Semisolid PE | 0.146 (3.71) | BC Braid, 95% | Black Type IIA PVC | 0.239 (6.07) |
| **M44276** | 22 (0.32) | Solid | BCW | Semisolid FEP | 0.142 (3.61) | BC Braid, 94% | White Plenum PVC | 0.202 (5.13) |
| **M44276F** | 22 (0.32) | Solid | BCW | Foam FEP | 0.146 (3.71) | BC Braid, 94% | White Plenum PVC | 0.204 (5.18) |

*Also available in white, green, blue, orange, yellow, and slate.





**95-Ohm Coaxial Cables**

**RG-180B/U Coaxial, RG-22B/U Twinax Cables**

| Part No. | Center Conductor | | | Dielectric | | Shield Material, Coverage | Jacket | |
|---|---|---|---|---|---|---|---|---|
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9180B** | 30 (0.05) | 7/38 (7 x 0.10) | SCW | PTFE | 0.102 (2.59) | SPC Braid, 91% | Natural Tan FEP | 0.141 (3.58) |
| **M4203** | 18 (0.87) | 7/0.0152 (7 x 0.39) | BC* | PE | 0.090 (2.85) | Dbl TC Braid, 95% | Black Type IIA PVC | 0.420 (10.67) |

*For identification, one conductor includes a single tinned copper strand.

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# Manhattan™ Coaxial Cable

| 93-Ohm Coaxial Cables | | | | | |
|---|---|---|---|---|---|
| RG-62A/U, RG-22B/U Coaxial Cables | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9062A** | 93 | 83 | 13.2 (43.3) | UL AWM 1478<br>MIL-DTL-17/30B RG-62A/U | A, B, D, E, F |
| **9062AC** | 93 | 83 | 13.5 (44.3) | UL AWM 1478<br>UL CL2<br>CSA CMH<br>MIL-DTL-17/30B RG-62A/U | A, B, D, E, F |
| **M4276** | 93 | 84 | 13.5 (44.3) | UL AWM 1478<br>UL CL2<br>UL CM<br>CSA CM<br>MIL-DTL-17/RG-62A/U Type | A, B, D, G |
| **M44276** | 93 | 85 | 12.8 (42) | UL CMP<br>CSA CMP<br>MIL-DTL-17/RG-62A/U Type | A, B, D, G |
| **M44276F** | 93 | 85 | 12.5 (41) | UL CMP<br>CSA CMP<br>MIL-DTL-17/RG-62U Type | A, B, D, G |

| 95-Ohm Coaxial Cables | | | | | |
|---|---|---|---|---|---|
| RG-180B/U Coaxial, RG-22B/U Twinax Cables | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9180B** | 95 | 70 | 15.4 (50.5) | MIL-DTL-17/RG-180B/U | A, B, D, G |
| **M4203** | 95 | 66 | 16 (52.5) | UL AWM 2498<br>MIL-DTL-17/RG-22B/U Type | A, B, D, G |

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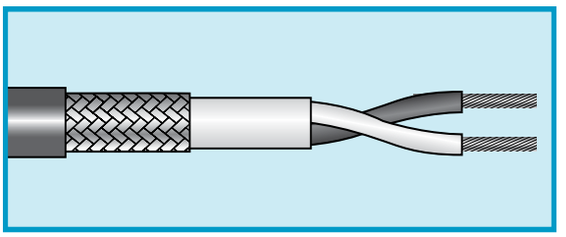
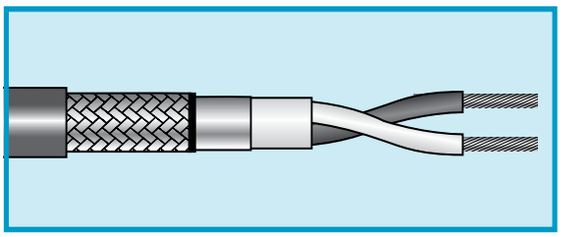
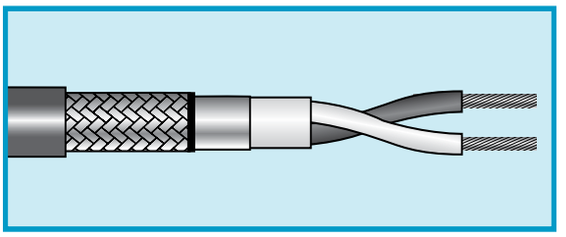




| Twinax Cables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **78-Ohm Twinax Cables** | | | | | | | | |
| **Part No.** | **Center Conductor** | | | **Dielectric** | | **Shield Material, Coverage** | **Jacket** | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9888C** | 22 (0.35) | 7/30 (7 x 0.25) | TC | White and Blue HDPE | 0.056 (1.42) | TC Braid, 85% | Apple Smoke Slate PVC | 0.184 (4.67) |
| **9108** | 20 (0.56) | 7/28 (7 x 0.32) | TC | Blue and Clear FEP | 0.074 (1.88) | TC Braid, 95% | Blue FEP | 0.198 (5.03) |
| **M4154** | 20 (0.56) | 7/28 (7 x 0.32) | TC | Blue and Clear PE | 0.076 (1.93) | A/P Tape TC Braid, 55% | Blue PVC | 0.238 (6.05) |
| **M4220** | 20 (0.56) | 7/28 (7 x 0.32) | TC* | Natural PE | 0.079 (2.01) | TC Braid, 85% | Black Type II PVC | 0.235 (5.97) |

*For identification, one conductor includes a bare copper strand Type IIA.

| Twinax Cables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **100-Ohm Twinax Cables** | | | | | | | | |
| **Part No.** | **Center Conductor** | | | **Dielectric** | | **Shield Material, Coverage** | **Jacket** | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9109** | 20 (0.56) | 7/28 (7 x 0.32) | BC TC | FEP | 0.072 (1.83) | TC Braid, 95% | Slate PVDF | 0.252 (6.40) |
| **9817** | 20 (0.56) | 7/28 (7 x 0.32) | BC TC | PE | 0.083 (2.11) | TC Braid, 85% | Black PVC | 0.330 (8.38) |
| **M4271** | 20 (0.56) | 7/28 (7 x 0.32) | BC TC | PE | 0.083 (2.11) | A/P/A Tape TC Braid, 85% | Black PVC | 0.330 (8.38) |



| Twinax Cables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **124- and 150-Ohm Twinax Cables** | | | | | | | | |
| **Part No.** | **Center Conductor** | | | **Dielectric** | | **Shield Material, Coverage** | **Jacket** | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9823** | 22 (0.38) | 19/34 (19 x 0.16) | TC | Black and Yellow Foam PE | 0.120 (3.05) | A/P/A Tape | Black PVC | 0.329 (8.36) |
| **M4158** | 16 (1.31) | Solid | BC | Blue and Clear Foam PE | 0.161 (4.09) | A/P/A Tape TC Braid, 90% | Black PVC | 0.440 (11.18) |

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| Twinax Cables | | | | | |
|---|---|---|---|---|---|
| **78-Ohm Twinax Cables** | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9888C** | 78 | 66 | 19.7 (64.6) | UL AWM 2726<br>UL CM<br>CSA CMG FT4 | D, E |
| **9108** | 78 | 69.5 | 18.4 (60.4) | UL CMP<br>CSA CMP | B, D |
| **M4154** | 78 | 66 | 19.7 (64.6) | UL AWM 2464<br>UL CM<br>CSA CM | A, B, D, G |
| **M4220** | 78 | 66 | 19.7 (64.6) | MIL-DTL-17/RG-108 Type | A, B, D, G |

| Twinax Cables | | | | | |
|---|---|---|---|---|---|
| **100-Ohm Twinax Cables** | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9109** | 100 | 69 | 13.3 (43.6) | UL CMP<br>UL CL2P<br>CSA CMP | D |
| **9817** | 100 | 66 | 14.5 (47.6) | UL AWM 2498 | A, B, D |
| **M4271** | 100 | 66 | 14.5 (47.6) | UL CMG<br>UL CL2<br>CSA CMG | A, B, D, G |

| Twinax Cables | | | | | |
|---|---|---|---|---|---|
| **124- and 150-Ohm Twinax Cables** | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9823** | 150 | 78 | 8.8 (28.9) | UL AWM 2668 | A, B, D, G |
| **M4158** | 124 | 78 | 10.9 (35.8) | UL AWM 2448<br>UL CMX<br>CSA CMX | A, B, D, G |

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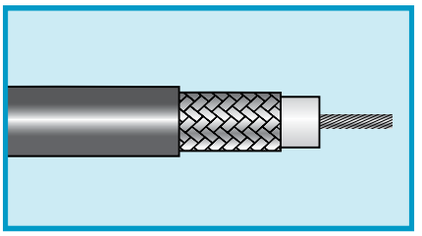

| Miniature Coaxial Cables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Part No. | Center Conductor | | Dielectric | | | Shield Material, Coverage | Jacket | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **M4243** | 30 (0.05) | 7/38 (7 x 0.10) | TC | Foam HDPE | 0.058 (1.47) | TC Braid, 89% | Black PVC | 0.097 (2.46) |
| **M4242** | 28 (0.08) | Solid | TC | PP | 0.023 (0.58) | TC Braid, 90% | Black PVC | 0.054 (1.37) |
| **M4244** | 27 (0.11) | 7/35 (7 x 0.142) | BCW | PE | 0.100 (2.54) | TC Braid, 93% | Black PVC | 0.150 (3.81) |

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# Manhattan™ Coaxial Cable

| Miniature Coaxial Cables | | | | | |
|---|---|---|---|---|---|
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **M4243** | 75 | 78 | 17.3 (56.8) | UL AWM 1375 | A, B, D, G |
| **M4242** | 32 | 66 | 55.2 (181.1) | UL CMH<br>CSA CMH | A, B, D, G |
| **M4244** | 75 | 66 | 20.5 (67.3) | UL AWM 1354 | A, B, D, G |

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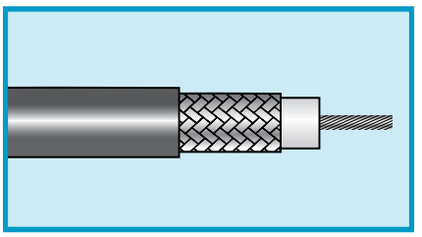

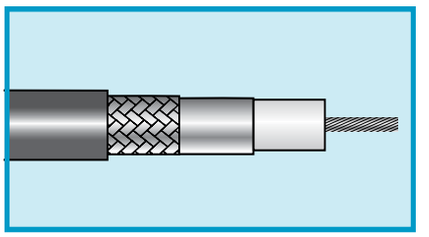

| 75-Ohm Video Cable | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RG-59/U, RG-59B/U Coaxial Cables | | | | | | | | |
| Part No. | Center Conductor | | | Dielectric | | Shield Material, Coverage | Jacket | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9059B** | 23 (0.26) | Solid | BCW | PE | 0.146 (3.71) | BC Braid, 94% | Black Type IIA PVC | 0.242 (6.15) |
| **9159** | 23 (0.26) | Solid | BCW | FEP | 0.132 (3.35) | BC Braid, 95% | Black PVDF | 0.190 (4.83) |
| **9810** | 23 (0.26) | Solid | BC | PE | 0.146 (3.71) | A/P/A Tape TC Braid, 95% | Black Type IIIA PE | 0.220 (5.59) |
| **M4223** | 23 (0.26) | Solid | BCW | PE | 0.146 (3.71) | BC Braid, 94% | Black Type IIA PVC | 0.241 (6.12) |
| **9059** | 22 (0.32) | Solid | BCW | PE | 0.146 (3.71) | BC Braid, 95% | Black, White, Slate Type I PVC | 0.242 (6.15) |
| **9059C** | 22 (0.32) | Solid | BCW | PE | 0.146 (3.71) | BC Braid, 95% | Black, Red, Blue, Green, Slate Type I PVC | 0.242 (6.15) |
| **9830** | 22 (0.32) | Solid | BCW | PE | 0.146 (3.71) | BC Braid, 85% | Black Type I PVC | 0.242 (6.15) |
| **M4212** | 22 (0.32) | Solid | BCW | Foam PE | 0.146 (3.71) | BC Braid, 85% | Black Type I PVC | 0.242 (6.15) |
| **M4237** | 22 (0.35) | 7/30 (7 x 0.25) | BC | Foam PE | 0.146 (3.71) | BC Braid, 95% | Black Type I PVC | 0.240 (6.10) |
| **M44212F** | 20 (0.52) | Solid | BCW | Foam FEP | 0.140 (3.56) | A/P/A Tape TC Braid, 94% | White Plenum PVC | 0.202 (5.13) |
| **9102** | 20 (0.52) | Solid | BCW | Foam FEP | 0.140 (3.56) | A/P/A Tape TC Braid, 94% | Black PVDF | 0.212 (5.38) |

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# Manhattan™ Coaxial Cable

| 75-Ohm Video Cable | | | | | |
|---|---|---|---|---|---|
| RG-59/U, RG-59B/U Coaxial Cables | | | | | |
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9059B** | 75 | 66 | 20.5 (67.3) | UL CL2X<br>CSA CMH FT1<br>MIL-DTL-17D/29B RG-59B/U | A, B, C, D, E |
| **9159** | 75 | 69.5 | 19.5 (64) | UL CL2P<br>UL CMP<br>CSA CMP FT6<br>MIL-DTL-17/RG-59B/U Type | D |
| **9810** | 75 | 66 | 21 (68.9) | MIL-DTL-17/RG-59/U Type | A, D |
| **M4223** | 75 | 66 | 20.5 (67.3) | UL AWM 1354<br>UL CMX<br>CSA CMX<br>MIL-DTL-17D/29B RG-59B/U | A, B, D |
| **9059** | 73 | 66 | 21 (68.9) | UL AWM 1354<br>JAN-C-17A/RG-59/U | A, B, D |
| **9059C** | 73 | 66 | 21 (68.9) | UL AWM 1354<br>UL CL2<br>CSA CMG FT4<br>JAN-C-17A /RG-59/U | A, B, C, D, E |
| **9830** | 75 | 66 | 21.5 (70.5) | UL AWM 1354<br>UL CMX<br>CSA CMX<br>JAN-C-17A/RG-59/U | A, B, D |
| **M4212** | 80 | 78 | 16.3 (53.5) | UL AWM 1354<br>UL CM<br>CSA CM<br>JAN-C-17A/RG-59/U | A, B, D |
| **M4237** | 75 | 78 | 17.3 (56.8) | UL AWM 1354<br>UL CM<br>CSA CM<br>MIL-DTL-17/RG-59/U Type | A, B, D |
| **M44212F** | 75 | 82 | 16.5 (54.1) | UL CMP<br>UL CATVP<br>CSA CMP FT6<br>MIL-DTL-17/RG-59/U Type | A, B, D, G |
| **9102** | 75 | 82 | 16.5 (54.1) | UL CMP<br>UL CL2P<br>CSA CMP FT6<br>MIL-DTL-17/RG-59U Type | B, D |

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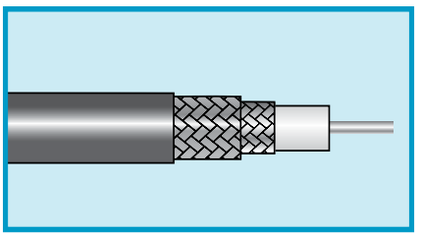
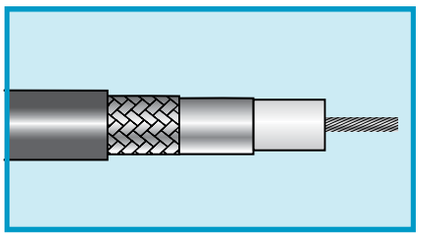
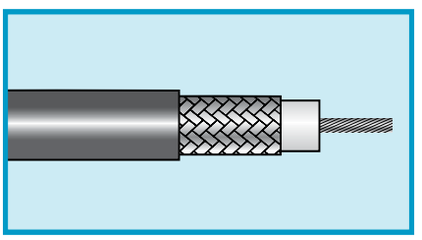
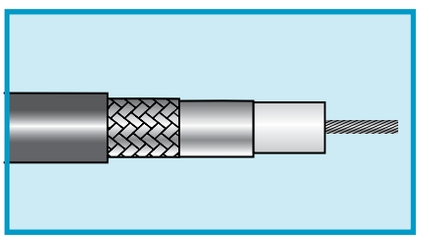




| 75-Ohm Video Cable<br>RG-6U Type, RG-6A/U Type | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Part No. | Center Conductor | | | Dielectric | | Shield Material, Coverage | Jacket | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **M4204** | 21 (0.41) | Solid | BCW | PE | 0.185 (4.70) | Dbl BC Braid, 95% | Black PE | 0.332 (8.43) |
| **9104** | 18 (0.82) | Solid | BCW | Foam FEP | 0.170 (4.32) | A/P Tape TC Braid, 95% | Black PVDF | 0.232 (5.89) |
| **M4182** | 18 (0.82) | Solid | BC | Foam PE | 0.180 (4.57) | A/P/A Tape TC Braid, 60% | Black Type I PVC | 0.270 (6.86) |





| 75-Ohm Video Cable<br>RG-11/U, RG-11/U Type, RG-11A/U | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Part No. | Center Conductor | | | Dielectric | | Shield Material, Coverage | Jacket | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9011A** | 18 (0.89) | 7/26 (7 x 0.40) | TC | PE | 0.285 (7.24) | BC Braid, 95% | Black Type IIA PVC | 0.405 (10.29) |
| **M4207** | 18 (0.89) | 7/26 (7 x 0.40) | TC | PE | 0.285 (7.24) | BC Braid, 95% | Black Type I PVC | 0.405 (10.29) |
| **9105** | 14 (2.08) | Solid | BC | Foam FEP | 0.274 (6.96) | A/P/A Tape TC Braid, 60% | Black FEP | 0.346 (8.79) |
| **M4208** | 14 (2.08) | Solid | BC | Foam PE | 0.285 (7.24) | BC Braid, 95% | Black PE | 0.405 (10.29) |

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# Manhattan™ Coaxial Cable

| 75-Ohm Video Cable<br>RG-6U Type, RG-6A/U Type | | | | | |
|---|---|---|---|---|---|
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **M4204** | 75 | 66 | 20.5 (67.3) | MIL-DTL-17/RG-6A/U Type | |
| **9104** | 75 | 82 | 16.5 (54.1) | UL CMP<br>UL CATVP<br>CSA CMP FT6<br>MIL-DTL-17/RG-6U Type | B, D |
| **M4182** | 75 | 82 | 16.2 (53.1) | UL AWM 1354<br>UL CM<br>CSA CM<br>MIL-DTL-17/ RG 6/U Type | A, B, D |

| 75-Ohm Video Cable<br>RG-11/U, RG-11/U Type, RG-11A/U | | | | | |
|---|---|---|---|---|---|
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9011A** | 75 | 66 | 20.5 (67.3) | UL CL2X<br>CSA CMH FT1<br>MIL-DTL-17D/6B RG 11A/U | A, B, D |
| **M4207** | 75 | 66 | 20.5 (67.3) | UL CM<br>CSA CM<br>JAN-C-17A/ RG 11/U | A, B, D |
| **9105** | 75 | 83 | 16.3 (53.5) | UL CMP<br>UL CL2P<br>UL CATVP<br>CSA CMP FT6<br>MIL-DTL-17/RG-11/U Type | B, D |
| **M4208** | 75 | 84 | 16.1 (52.8) | MIL-DTL-17/RG-11A/U Type | A, B, D |

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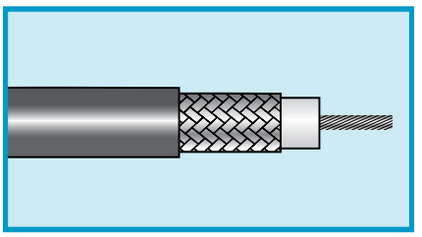
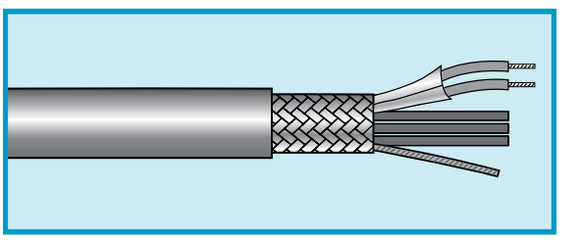
# Manhattan™ Coaxial Cable



| 75-Ohm Video Cables<br>RG-179B/U and RG-187A/U Coaxial Cables | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Part No. | Center Conductor | | Dielectric | | | Shield Material, Coverage | Jacket | |
| | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | | Material | Dia., In. (mm) |
| **9179B** | 30 (0.05) | 7/38 (7 x 0.10) | SCW | PTFE | 0.063 (1.60) | SPC Braid, 93% | Natural Tan FEP | 0.100 (2.54) |
| **9187A** | 30 (0.05) | 7/38 (7 x 0.10) | SCW | PTFE | 0.063 (1.60) | SPC Braid, 93% | Natural PTFE Tape | 0.105 (2.67) |



| Ethernet Transceiver Cables | | | | | | | |
|---|---|---|---|---|---|---|---|
| Part No. | Pairs | | | | Dielectric | | Shield Material, Coverage |
| | Type | AWG ($mm^2$) | Stranding (mm) | Material | Material | Dia., In. (mm) | |
| **9852C** | Data (3) | 22 (0.35) | 7/30 (7 x 0.25) | TC | Foam HDPE | 0.064 (1.63) | A/P (pairs)<br>A/P/A (overall)<br>TC Braid, 95% |
| | Power (1) | 20 (0.56) | 7/28 (7 x 0.32) | TC | SR-PVC | 0.058 (1.47) | |
| **9853C** | Data (3) | 20 (0.56) | 7/28 (7 x 0.32) | TC | Foam HDPE | 0.077 (1.96) | A/P (pairs)<br>A/P (overall)<br>TC Braid, 95% |
| | Power (1) | 20 (0.56) | 7/28 (7 x 0.32) | TC | SR-PVC | 0.058 (1.47) | |
| **9854C** | Data (3) | 28 (0.08) | 7/36 (7 x 0.12) | TC | PP | 0.033 (0.84) | A/P (pairs)<br>A/P/A (overall)<br>TC Braid, 90% |
| | Power (1) | 24 (0.23) | 7/32 (7 x 0.20) | TC | SR-PVC | 0.044 (1.12) | |

### Key to Abbreviations

| | |
|---|---|
| **A/P** | Aluminum/polyester |
| **A/P/A** | Aluminum/polyester/aluminum |
| **BC** | Bare copper |
| **BCW** | Bare copper-coated steel |
| **FEP** | Fluorinated ethylene propylene |
| **HDPE** | High-density polyethylene |
| **PE** | Polyethylene |
| **PP** | Polypropylene |
| **PTFE** | Polytetrafluoroethylene |
| **PVC** | Polyvinyl chloride |
| **PVDF** | Polyvinylidene fluoride |
| **SCW** | Silver-coated, copper-coated steel |
| **SPC** | Silver-plated copper |
| **SR-PVC** | Semirigid PVC |
| **TC** | Tinned copper |

### Color Coding

| Conductor | Color Code | |
|---|---|---|
| | **9852C, 9853C** | **9854C** |
| Data 1 | Green-Blue | White-Gray |
| Data 2 | Yellow-Orange | Yellow-Orange |
| Data 3 | White-Brown | Green-Blue |
| Power | Blue-Red | Black-Red |

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# Manhattan™ Coaxial Cable

| 75-Ohm Video Cables<br>RG-179B/U and RG-187A/U Coaxial Cables | | | | | |
|---|---|---|---|---|---|
| **Part No.** | **Nom. Impedance (Ω)** | **Vp (%)** | **Capacitance, pF/ft (pF/m)** | **Specifications** | **Availability** |
| **9179B** | 75 | 70 | 19.5 (64) | MIL-DTL-17/RG-179B/U | A, B, D, G |
| **9187A** | 75 | 70 | 19.5 (64) | MIL-DTL-17/RG-187A/U | A, B, D, G |

| Ethernet Transceiver Cables | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Part No.** | **Jacket** | | **Electrical Characteristics—Data Pairs** | | | **Specifications** | **Availability** |
| | Material | Dia., In. (mm) | Nom. Impedance (Ω) | Vp (%) | Capacitance, pF/ft (pF/m) | | |
| **9852C** | Slate PVC | 0.375 (9.53) | 78 | 78 | 16.7 (54.8) | UL AWM 2919<br>UL CM<br>CSA CMG FT4 | D |
| **9853C** | Slate PVC | 0.401(10.19) | 78 | 78 | 16.7 (54.8) | UL CM<br>CSA CMG FT4 | D |
| **9854C** | Slate PVC | 0.250 (6.35) | 78 | 66 | 19.7 (64.6) | UL AWM 2919<br>UL CM<br>CSA CMG FT4 | D |

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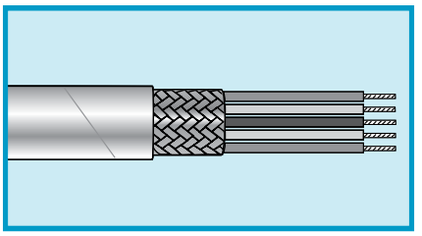
# Manhattan™ High-Temperature Wire and Cable

## 600 V, Multiconductor, PTFE, PTFE, Braid Shield
## High Temperature



**NEMA WC27500 Type RC**
**SAE AS22759/11**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Per SAE AS22759/11

### Materials

- Stranded silver-plated conductors
- PTFE insulation
- Silver-plated braid shield, 85% coverage
- Natural PTFE jacket

### Availability

100 ft (30.5 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.009 (0.24 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **24RC2S06** | 2 | 0.124 | 3.15 | 0.010 | 0.25 |
| **24RC3S06** | 3 | 0.130 | 3.30 | 0.010 | 0.25 |
| **24RC4S06** | 4 | 0.142 | 3.61 | 0.010 | 0.25 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.24 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **22RC2S06** | 2 | 0.136 | 3.45 | 0.010 | 0.25 |
| **22RC3S06** | 3 | 0.143 | 3.63 | 0.010 | 0.25 |
| **22RC4S06** | 4 | 0.156 | 3.96 | 0.010 | 0.25 |

**20 AWG (0.61 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **20RC2S06** | 2 | 0.154 | 3.91 | 0.010 | 0.25 |
| **20RC3S06** | 3 | 0.163 | 4.14 | 0.010 | 0.25 |
| **20RC4S06** | 4 | 0.184 | 4.67 | 0.010 | 0.25 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.011 (0.28 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **18RC2S06** | 2 | 0.180 | 4.57 | 0.010 | 0.25 |

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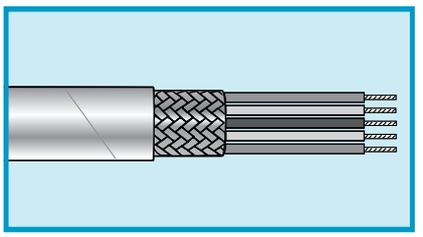
# Manhattan™ High-Temperature Wire and Cable

## 600 V, Multiconductor, ETFE, ETFE, Braid Shield
## High Temperature



**NEMA WC27500 Type TE**
**SAE AS22759/16**

### Operating Temperature

- -55°C to +150°C

### Conductor Color Coding

- Per SAE AS22759/16

### Materials

- Stranded tinned copper conductors
- ETFE insulation
- Tinned copper braid shield, 85% coverage
- Natural ETFE jacket

### Availability

100 ft (30.5 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.011 (0.28 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **275002402** | 2 | 0.132 | 3.35 | 0.010 | 0.25 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.011 (0.28 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **275002201** | 1 | 0.088 | 2.24 | 0.010 | 0.25 |
| **275002202** | 2 | 0.146 | 3.71 | 0.010 | 0.25 |
| **275002203** | 3 | 0.154 | 3.91 | 0.010 | 0.25 |
| **275002204** | 4 | 0.168 | 4.27 | 0.010 | 0.25 |

**20 AWG (0.61 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.011 (0.28 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **275002001** | 1 | 0.096 | 2.44 | 0.010 | 0.25 |
| **275002002** | 2 | 0.162 | 4.11 | 0.010 | 0.25 |
| **275002003** | 3 | 0.171 | 4.34 | 0.010 | 0.25 |
| **275002004** | 4 | 0.187 | 4.75 | 0.010 | 0.25 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.012 (0.30 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **275001801** | 1 | 0.107 | 2.72 | 0.010 | 0.25 |
| **275001802** | 2 | 0.182 | 4.62 | 0.010 | 0.25 |

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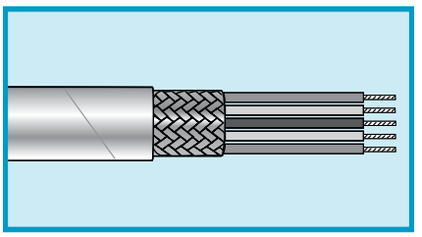
# Manhattan™ High-Temperature Wire and Cable

## 600 V, Multiconductor, PTFE, PTFE, Braid Shield



**MIL-W-16878/4 (Type E)**
**NEMA HP3**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Chart P (page 535)

### Materials

- Silver-plated copper conductors
- PTFE insulation
- Silver-plated copper braid shield, 85% coverage
- White PTFE jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

### NEMA HP3-EXBEE

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1201** | 1 | 0.081 | 2.06 | 0.010 | 0.25 |
| **M1202** | 2 | 0.124 | 3.15 | 0.012 | 0.30 |
| **M1203** | 3 | 0.130 | 3.30 | 0.012 | 0.30 |
| **M1204** | 4 | 0.140 | 3.56 | 0.012 | 0.30 |

### NEMA HP3-EXBEE

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1211** | 1 | 0.087 | 2.21 | 0.010 | 0.25 |
| **M1212** | 2 | 0.136 | 3.45 | 0.012 | 0.30 |
| **M1213** | 3 | 0.143 | 3.63 | 0.012 | 0.30 |
| **M1214** | 4 | 0.155 | 3.94 | 0.012 | 0.30 |

### NEMA HP3-EXBFE

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1221** | 1 | 0.092 | 2.34 | 0.010 | 0.25 |
| **M1222** | 2 | 0.146 | 3.71 | 0.012 | 0.30 |
| **M1223** | 3 | 0.154 | 3.91 | 0.012 | 0.30 |
| **M1224** | 4 | 0.167 | 4.24 | 0.012 | 0.30 |

### NEMA HP3-EXBGE

**20 AWG (0.61 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1231** | 1 | 0.100 | 2.54 | 0.010 | 0.25 |
| **M1232** | 2 | 0.158 | 4.01 | 0.012 | 0.30 |
| **M1233*** | 3 | 0.171 | 4.34 | 0.010 | 0.25 |
| **M1234** | 4 | 0.186 | 4.72 | 0.012 | 0.30 |

*NEMA HP3-EXBJE.

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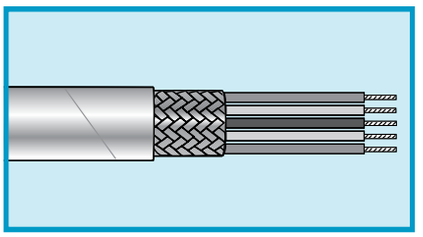
# Manhattan™ High-Temperature Wire and Cable

## 600 V, Multiconductor, PTFE, PTFE, Braid Shield



**MIL-W-16878/14 (Type E)**
**NEMA HP3**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Chart P (page 535)

### Materials

- Silver-plated copper conductors
- PTFE insulation
- Silver-plated copper braid shield, 85% coverage
- White PTFE jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### NEMA HP3-EXBHE

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1241*** | 1 | 0.112 | 2.84 | 0.010 | 0.25 |
| **M1242** | 2 | 0.186 | 4.72 | 0.012 | 0.30 |
| **M1243** | 3 | 0.197 | 5.00 | 0.012 | 0.30 |
| **M1244** | 4 | 0.215 | 5.46 | 0.012 | 0.30 |

*NEMA HP3-EXBGE.

### NEMA HP3-EXBJE

**16 AWG (1.23 mm²)**

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.012 (0.30 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **M1251** | 1 | 0.122 | 3.10 | 0.010 | 0.25 |
| **M1252** | 2 | 0.206 | 5.23 | 0.012 | 0.30 |
| **M1253** | 3 | 0.219 | 5.56 | 0.012 | 0.30 |
| **M1254** | 4 | 0.240 | 6.10 | 0.012 | 0.30 |

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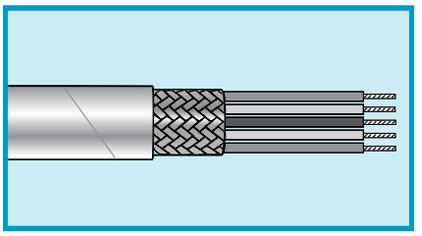
# Manhattan™ High-Temperature Wire and Cable

## 600 V, Multiconductor, PTFE, FEP, Braid Shield



**MIL-W-16878/4 (Type E) Components**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Chart P (page 535)

### Materials

- Silver-plated copper conductors
- PTFE insulation
- Silver-plated copper braid shield, 85% coverage
- White FEP jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
Bulk, cut to length
Spools may contain multiple lengths
(Minimums may apply)

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.0095 (0.24 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **72402** | 2 | 0.136 | 3.45 | 0.012 | 0.30 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.0095 (0.24 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **72203** | 3 | 0.154 | 3.91 | 0.012 | 0.30 |

**20 AWG (0.61 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.0095 (0.24 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **72001** | 1 | 0.100 | 2.54 | 0.010 | 0.25 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **71801** | 1 | 0.112 | 2.84 | 0.010 | 0.25 |
| **71802** | 2 | 0.186 | 4.72 | 0.012 | 0.30 |

**16 AWG (1.23 mm²)**

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.012 (0.030 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **71602** | 2 | 0.206 | 5.23 | 0.012 | 0.30 |

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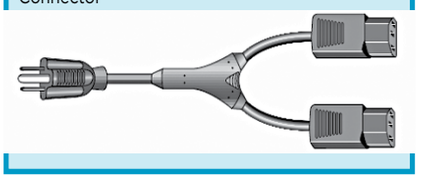
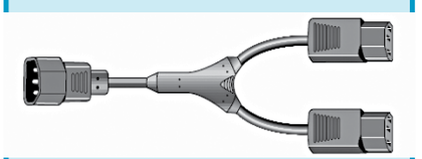
# Manhattan™ Cordsets

## 125 and 250 V M.A.P. Multiple Application Power Cords
## Twin-End Jumper and Power Cords

NEMA 5-15P Connector — IEC C-13 Connector



IEC C-14 Connector — IEC C-13 Connector



**SJT**
**UL Standard 817**
**CSA C22.2 No. 21**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Black, white, green (NEC)

### Materials

- Stranded bare copper conductors
- PVC insulation
- Black PVC jacket

### Availability

25-piece packages
(Minimums may apply)

**6-ft (1.8 m) Overall Length; Individual Leg Length Is 2 ft (0.6 m)**

| Part No. | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Jumper | Power | AWG | $mm^2$ | AWG | mm | Inch | mm | Watts | Amps | Volts |
| **468** | **472** | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.300 | 7.62 | 1250 | 10 | 125 |
| **470** | **474** | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.325 | 8.26 | 3250 | 13 | 250 |

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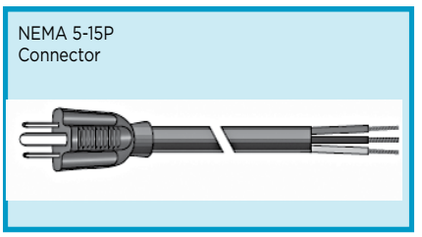
# Manhattan™ Cordsets

## 125 V Power Cords
## 3-Conductor




**SJ, SJT, SVT**
**UL 62 and 817**
**CSA C22.2 No. 21 and 49**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Black, white, green or green/yellow (NEC)
- Blue, brown, green/yellow (ICC)

### Materials

- Stranded bare copper conductors
- PVC or rubber insulation
- Aluminum/polyester foil shield (where specified)
  Foil facing inward
  22 AWG (0.35 mm²) tinned copper drain wire
- Black PVC, rubber, or neoprene jacket (slate where marked)

### Availability

25-piece packages
B suffix = 100-piece packages
(Minimums may apply)

**PVC Jacket, PVC Insulation, Unshielded, SJT**
**Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 pc | 100 pc | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **501** | **501B** | 6' 7" | 2 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.330 | 8.38 | 1250 | 10 | ICC |
| **502** | **502B** | 9' 10" | 3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.330 | 8.38 | 1250 | 10 | ICC |
| **780*** | **780B*** | 6' 0" | 1.8 | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.330 (0.300)** | 8.38 (7.62)** | 1250 | 10 | NEC |
| **779*** | **779B*** | 8' 0" | 2.4 | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.300 (0.330)† | 7.62 (8.38)† | 1250 | 10 | NEC |
| **503** | **—** | 6' 7" | 2 | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.331 | 8.41 | 1625 | 13 | ICC |
| **505** | **505B** | 6' 7" | 2 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.380 | 9.65 | 1875 | 15 | ICC |
| **506** | **—** | 9' 10" | 3 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.380 | 9.65 | 1875 | 15 | ICC |

*Slate jacket
**Diameter for part no. 780B
†Diameter for part no. 779B

**PVC Jacket, PVC Insulation, Shielded, SVT**
**Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 pc | 100 pc | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **777*** | **777B*** | 6' 0" | 1.8 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.250 | 6.35 | 1250 | 10 | NEC |
| **787*** | **787B*** | 8' 0" | 2.4 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.250 | 6.35 | 1250 | 10 | NEC |
| **507F** | **—** | 6' 7" | 2 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.260 | 6.60 | 1250 | 10 | ICC |
| **508F** | **—** | 9' 10" | 3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.260 | 6.60 | 1250 | 10 | ICC |

*Slate jacket



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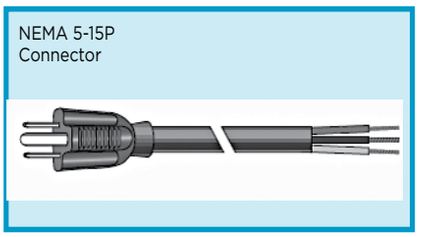
# Manhattan™ Cordsets

## 125 V Power Cords
## 3-Conductor




**SJ, SJT, SVT**
**UL 62 and 817**
**CSA C22.2 No. 21 and 49**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Black, white, green or green/yellow (NEC)
- Blue, brown, green/yellow (ICC)

### Materials

- Stranded bare copper conductors
- PVC or rubber insulation
- Aluminum/polyester foil shield (where specified)
  Foil facing inward
  22 AWG (0.35 mm²) tinned copper drain wire
- Black PVC, rubber, or neoprene jacket (slate where marked)

### Availability

25-piece packages
(Minimums may apply)

**Rubber Jacket, Rubber Insulation, Unshielded, SJ**
**Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **615** | 6' 0" | 1.8 | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.320 | 7.13 | 1250 | 10 | NEC |
| **616** | 9' 0" | 2.7 | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.320 | 8.13 | 1250 | 10 | NEC |
| **778** | 8' 0" | 2.4 | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.320 | 8.13 | 1250 | 10 | NEC |
| **782** | 12' 0" | 3.7 | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.320 | 8.13 | 1250 | 10 | NEC |
| **783** | 9' 0" | 2.7 | 16 | 1.31 | 26/30 | 26 x 0.25 | 0.340 | 8.64 | 1625 | 13 | NEC |
| **784** | 12' 0" | 3.7 | 16 | 1.31 | 26/30 | 26 x 0.25 | 0.340 | 8.64 | 1625 | 13 | NEC |
| **788** | 9' 0" | 2.7 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.380 | 9.65 | 1875 | 15 | NEC |
| **789** | 15' 0" | 4.5 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.380 | 9.65 | 1875 | 15 | NEC |

**Neoprene Jacket, Rubber Insulation, Unshielded, SJO**
**Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **781** | 8' 0" | 2.4 | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.330 | 8.38 | 1250 | 10 | NEC |

**Rubber Jacket, Rubber Insulation, Unshielded, SV**
**Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **775** | 6' 0" | 1.8 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.260 | 6.60 | 1250 | 10 | NEC |
| **776** | 8' 0" | 2.4 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.260 | 6.60 | 1250 | 10 | NEC |

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# Manhattan™ Cordsets

## 125 V Electronic Line Cords
## 3-Conductor

IEC C-13 Connector

IEC C-13 Right-Angle Connector

**SJT, SVT**
**UL 62 and 817**
**CSA C22.2 No. 21 and 49**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Blue, brown, green/yellow (ICC)

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield (where specified)
  Foil facing inward
  20 AWG (0.56 mm²) tinned copper drain wire
- PVC jacket, black
  (slate where marked)

### Availability

25-piece packages
(Minimums may apply)

**PVC, Unshielded, Type SJT**
**Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps |
| **511** | 6' 7" | 2 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.300 | 7.62 | 1250 | 10 |
| **512** | 9' 10" | 3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.300 | 7.72 | 1250 | 10 |
| **513** | 6' 7" | 2 | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.331 | 8.41 | 1625 | 13 |
| **514** | 9' 10" | 3 | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.331 | 8.41 | 1625 | 13 |

**PVC, Shielded, Right Angle, Type SJT**
**Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps |
| **521F** | 6' 7" | 2 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.380 | 9.65 | 1825 | 15 |

**PVC, Shielded, Type SVT**
**Leads: Jacket Stripped 1.5" (38 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps |
| **523** | 7' 5" | 2.3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.250 | 6.35 | 1250 | 10 |



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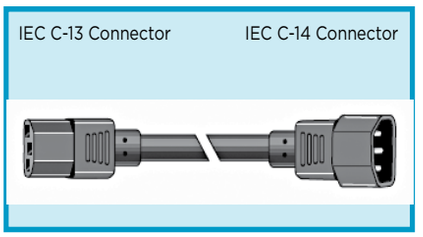
# Manhattan™ Cordsets

## 125 V Jumper Cords
## NEMA and IEC Connectors




Jumper Cords

**SJ, SJT, SVT, SPT-1**
**UL 62 and 817**
**CSA C22.2 No. 21 and 49**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Blue, brown, green/yellow (ICC)
- Black, white, green (NEC)

### Materials

- Stranded bare copper conductors
- PVC or rubber insulation
- Aluminum/polyester foil shield (where specified)
  Foil facing inward
  22 AWG (0.35 mm²) tinned copper drain wire
- Black PVC or rubber jacket (Part 601B available in white or slate jacket)

### Availability

25-piece packages
(Minimums may apply)

**PVC, Unshielded, Type SJT**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **551** | 3' 3" | 1 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.300 | 7.62 | 1250 | 10 | ICC |

**PVC, Shielded, Type SVT**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **560F** | 3' 3" | 1 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.260 | 6.60 | 1250 | 10 | ICC |

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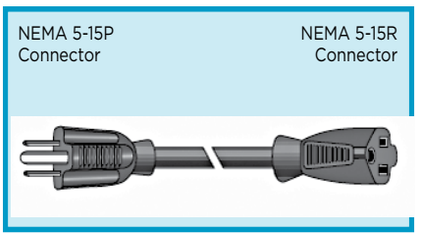
# Manhattan™ Cordsets

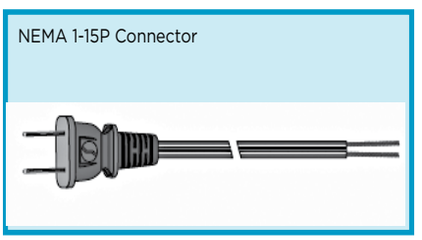
## 125 V Jumper Cords
## NEMA and IEC Connectors




### Extension Cords

**Rubber, Unshielded, Type SJ**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **633** | 10' 0" | 3.1 | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.340 | 8.64 | 1625 | 13 | NEC |
| **640** | 15' 0" | 4.6 | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.340 | 8.64 | 1625 | 13 | NEC |




### Parallel Lamp Cords

**PVC, Unshielded, Type SPT-1**
**Leads: Conductors Split 1" (25.4 mm) and Stripped 5/8" (16 mm)**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Dimension | | Power Rating | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps |
| **601B*** | 6' 0" | 1.8 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.110 x 0.220 | 2.79 x 5.69 | 1250 | 10 |

*100-piece packages.



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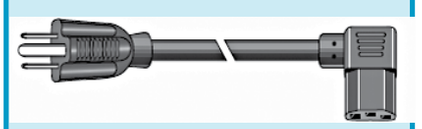
# Manhattan™ Cordsets

## 125 V Detachable Power Supply Cords
## 3-Conductor

NEMA 5-15P Connector — IEC C-13 Connector

NEMA 5-15P Connector — IEC C-13 Right-Angle Connector



**SJT, SVT**
**UL 62 and 817**
**CSA C22.2 No. 21 and 49**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Blue, brown, green/yellow (ICC)
- Black, white, green or green/yellow (NEC)

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield
  Foil facing inward
  Tinned copper drain wire
  (see tables for size)
- Black PVC jacket

### Availability

25-piece packages
B suffix = 100-piece packages
(Minimums may apply)

**Unshielded, Straight, Types SVT and SJT**

| Part No. | | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 pc | 100 pc | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| | | | | | | Type SVT | | | | | | |
| 545 | 545B | 7' 5" | 2.3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.250 | 6.35 | 1250 | 10 | NEC |
| 535 | 535B | 7' 5" | 2.3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.250 | 6.35 | 1250 | 10 | NEC |
| | | | | | | Type SJT | | | | | | |
| 531 | 531B | 6' 7" | 2 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.330 | 8.38 | 1250 | 10 | NEC |
| 532 | 532B | 9' 10" | 3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.330 | 8.38 | 1250 | 10 | NEC |
| 533 | — | 6' 7" | 2 | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.350 | 8.89 | 1625 | 13 | ICC |
| 546 | — | 7' 5" | 2.3 | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.350 | 8.89 | 1625 | 13 | ICC |
| 534 | 534B | 9' 10" | 3 | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.331 | 8.41 | 1625 | 13 | NEC |

**Shielded, Straight, Types SVT and SJT**

| Part No. | Cord Length | | Wire Size | | Stranding | | Drain Wire* | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | | Inch | mm | Watts | Amps | |
| | | | | | Type SVT | | | | | | | |
| 547F | 6' 7" | 2 | 18 | 0.82 | 41/34 | 41 x 0.16 | A | 0.260 | 6.60 | 1250 | 10 | ICC |
| 548F | 9' 10" | 3 | 18 | 0.82 | 41/34 | 41 x 0.16 | A | 0.260 | 6.60 | 1250 | 10 | ICC |
| | | | | | Type SJT | | | | | | | |
| 531F | 6' 7" | 2 | 18 | 0.82 | 41/34 | 41 x 0.16 | B | 0.317 | 8.05 | 1250 | 10 | ICC |
| 532F | 9' 10" | 3 | 18 | 0.82 | 41/34 | 41 x 0.16 | B | 0.317 | 8.05 | 1250 | 10 | ICC |
| 536F | 9' 10" | 3 | 14 | 2.08 | 41/30 | 41 x 0.25 | C | 0.400 | 10.16 | 1875 | 15 | ICC |

*Drain Wire:
A = 22 AWG (mm2), 7/30 (7 x 0.25 mm) stranding.
B = 18 AWG (0.82 mm2), 41/34 (41 x 0.16 mm) stranding.
C = 14 AWG (2.08 mm2), 41/30 (41 x 0.25 mm) stranding.

# Manhattan™ Cordsets

## 125 V Detachable Power Supply Cords
## 3-Conductor

### Unshielded, Right Angle, Type SJT

| Part No. | | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 pc | 100 pc | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **537** | **537B** | 6' 7" | 2 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.330 | 8.38 | 1250 | 10 | ICC |
| **538** | | 9' 10" | 3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.330 | 8.38 | 1250 | 10 | ICC |
| **540** | **–** | 9' 10" | 3 | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.331 | 8.41 | 1625 | 13 | ICC |

### Shielded, Right Angle, Type SVT

| Part No. | Cord Length | | Wire Size | | Stranding | | Drain Wire* | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | | Inch | mm | Watts | Amps | |
| **550F** | 9' 10" | 3 | 18 | 0.82 | 41/34 | 41 x 0.16 | A | 0.260 | 6.60 | 1250 | 10 | ICC |

*Drain Wire:
A = 22 AWG (mm²), 7/30 (7 x 0.25 mm) stranding.

NEMA 5-15P Connector

### Unshielded, Straight, Type SVT

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | |
| **543*** | 7' 5" | 2.3 | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.240 | 6.09 | 1250 | 7 | ICC |

*Also available with slate jacket.



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# Manhattan™ Cordsets

## 125 V Medical-Grade Power Supply Cordsets
## 3-Conductor

**SJT**
**UL 62 and 817**
**CSA C22.2 No. 21 and 49**
**CSA FT2**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Black, white, green

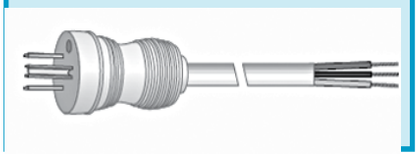
### Materials

- Stranded bare copper conductors
- PVC insulation
- Black or slate PVC jacket

### Availability

25-piece packages
(Minimums may apply)

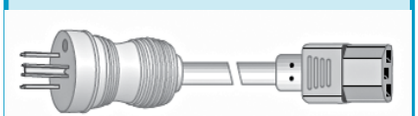
NEMA 5-15P Connector



**Leads: Jacket Stripped 2" (50 mm). Leads Stripped 5/8" (16 mm)**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Ratings | | Colors | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | Jacket | Plug |
| **801** | 10' 0" | 3.0 | 18 | 1.20 | 43/34 | 43 x 0.16 | 0.31 | 7.8 | 1250 | 10 | Black | Clear |
| **802** | 10' 0" | 3.0 | 18 | 1.20 | 43/34 | 43 x 0.16 | 0.31 | 7.8 | 1250 | 10 | Slate | Slate |

NEMA 5-15P Connector — IEC C-13 Connector



| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Ratings | | Colors | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps | Jacket | Plug | Recept. |
| **820** | 10' 0" | 3.0 | 18 | 1.20 | 43/34 | 43 x 0.16 | 0.31 | 7.8 | 1250 | 10 | Black | Clear | Black |
| **821** | 10' 0" | 3.0 | 18 | 1.20 | 43/34 | 43 x 0.16 | 0.31 | 7.8 | 1250 | 10 | Slate | Slate | Slate |
| **822** | 10' 0" | 3.0 | 18 | 1.20 | 43/34 | 43 x 0.16 | 0.31 | 7.8 | 1250 | 10 | Slate | Clear | Clear |
| **830** | 10' 0" | 3.0 | 16 | 1.50 | 68/34 | 68 x 0.16 | 0.33 | 8.5 | 1625 | 13 | Black | Clear | Black |
| **831** | 10' 0" | 3.0 | 16 | 1.50 | 68/34 | 68 x 0.16 | 0.33 | 8.5 | 1625 | 13 | Slate | Slate | Slate |
| **832** | 10' 0" | 3.0 | 16 | 1.50 | 68/34 | 68 x 0.16 | 0.33 | 8.5 | 1625 | 13 | Slate | Clear | Clear |

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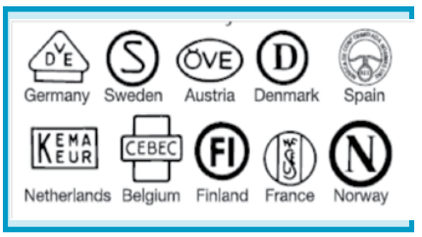
# Manhattan™ Cordsets

## 250 V Internationally Approved Power Supply Cordsets




**CE**
**ENEC-11**
**T-Mark**
**JET**
**UL**
**CSA**
**C-Tick**

### Operating Temperature

- -15°C to +70°C

### Conductor Color Coding

- Blue, brown, yellow/green

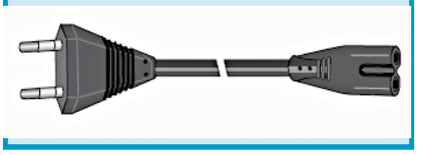
### Materials

- Stranded bare copper conductors
- PVC insulation
- Black PVC jacket

### Availability

25-piece packages
(Minimums may apply)

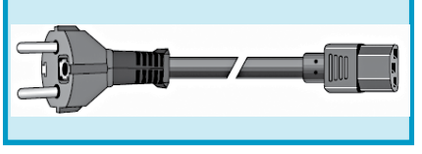
XVI Plug Connector — IEC C-7 Connector



### 2-Conductor Unshielded. Cordage Type HO3VVH2F2XO.75

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps |
| **952** | 5' 6" | 1.7 | 18 | 0.75 | 23/32 | 23 x 0.20 | 0.133 x 0.22 | 4.00 x 5.60 | 625 | 2.5 |

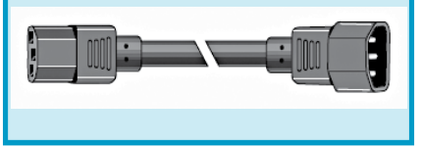
VIIG Plug Connector — IEC C-13 Connector



### 3-Conductor Unshielded. Cordage Type HO5VVF3G1.00

| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8' 2" | 2.5 | 16 | 1.00 | 31/32 | 31 x 0.20 | 0.268 | 6.81 | 2500 | 2.5 |

IEC C-13 Connector — IEC C-14 Connector



### 3-Conductor Unshielded. Cordage Type HARSJT3X18AWG

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | mm | Inch | mm | Watts | Amps |
| **953** | 8' 2" | 2.5 | 18 | 1.00 | 56/34 | 56 x 0.15 | 0.314 | 8.0 | 2500 | 10 |

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# Manhattan™ Cordsets

## 250 V Power Supply Cords, 3-Conductor
## Australia

### SAA

#### Operating Temperature

- -15°C to +70°C

#### Conductor Color Coding

- Blue, brown, yellow/green

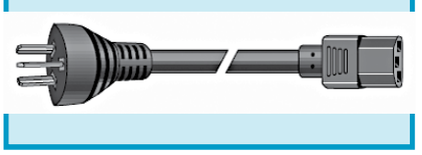
#### Materials

- Stranded bare copper conductors
- PVC insulation
- Black PVC jacket
- Cord Type: HO5VVF3G1.00

#### Availability

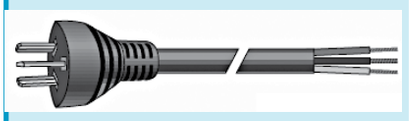
25-piece packages
(Minimums may apply)

SAA 3 Connector — IEC C-13 Connector



| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | Mm | Inch | mm | Watts | Amps |
| **910** | 8.2 | 2.5 | 16 | 1.00 | 31/32 | 31 x 0.20 | 0.270 | 6.80 | 2500 | 10 |

SAA 3 Connector



**Leads: Jacket Stripped 30 mm (1.2"). Leads Stripped 6 mm (0.24")**

| Part No. | Cord Length | | Wire Size | | Stranding | | Nominal Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ft | m | AWG | mm² | AWG | Mm | Inch | mm | Watts | Amps |
| **911** | 8.2 | 2.5 | 16 | 1.00 | 31/32 | 31 x 0.20 | 0.270 | 6.80 | 2500 | 10 |

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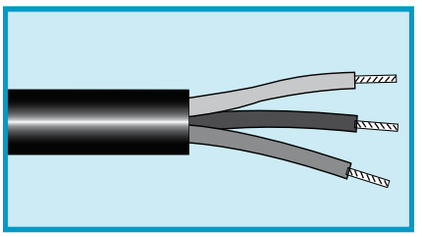
# Manhattan™ Cordsets

## 300 V and 600 V Conductor Cordage
## CPE



**SVO, SJOW, SOOW**
**UL 62**
**CSA C22.2 No. 49**
**CSA FT2**

### Operating Temperature

- -40°C to +90°C

### Conductor Color Coding

- Black, white (2 conductors)
- Black, white, green (3 conductors)
- Black, white, green, red (4 conductors)

### Materials

- Stranded bare copper conductors
- Rubber insulation
- Black chlorinated polyethylene (CPE) jacket

### Availability

250 ft (76.2 m)
(Minimums may apply)

**CPE Jacket, 2-Conductor Cords, Types SVO, SJOW, and SOOW**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | Mm | Inch | mm | Inch | mm | Inch | mm |
| **Type SVO, 300 V** | | | | | | | | | | |
| **1931** | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.017 | 0.43 | 0.034 | 0.86 | 0.236 | 5.99 |
| **Type SJOW, 300 V** | | | | | | | | | | |
| **1932** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.034 | 0.86 | 0.294 | 7.47 |
| **1933** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.034 | 0.86 | 0.320 | 8.13 |
| **Type SOOW, 600 V** | | | | | | | | | | |
| **1934** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.031 | 0.79 | 0.065 | 1.65 | 0.356 | 9.04 |
| **1935** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.031 | 0.79 | 0.065 | 1.65 | 0.382 | 9.70 |
| **1936** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.048 | 1.22 | 0.085 | 2.16 | 0.516 | 13.11 |
| **1937** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.050 | 1.27 | 0.100 | 2.54 | 0.592 | 15.04 |

**CPE Jacket, 3-Conductor Cords, Types SJOW and SOOW**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **Type SJOW, 300 V** | | | | | | | | | | |
| **1932/3** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.034 | 0.86 | 0.330 | 7.85 |
| **1933/3** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.034 | 0.86 | 0.358 | 8.64 |
| **Type SOOW, 600 V** | | | | | | | | | | |
| **1934/3** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.031 | 0.79 | 0.065 | 1.65 | 0.373 | 9.47 |
| **1935/3** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.031 | 0.79 | 0.065 | 1.65 | 0.401 | 10.19 |
| **1936/3** | 14 | 1.08 | 41/30 | 41 x 0.25 | 0.048 | 1.22 | 0.085 | 2.16 | 0.543 | 13.79 |
| **1937/3** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.050 | 1.27 | 0.100 | 2.54 | 0.623 | 15.82 |
| **1938/3** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.050 | 1.27 | 0.100 | 2.54 | 0.642 | 16.31 |

**CPE Jacket, 4-Conductor Cords, Type SOOW, 600 V**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **1934/4** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.031 | 0.79 | 0.065 | 1.65 | 0.400 | 10.16 |
| **1935/4** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.031 | 0.79 | 0.065 | 1.65 | 0.437 | 11.10 |
| **1936/4** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.048 | 1.22 | 0.085 | 2.16 | 0.589 | 14.96 |
| **1937/4** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.050 | 1.27 | 0.100 | 2.54 | 0.674 | 17.12 |
| **1938/4** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.050 | 1.27 | 0.100 | 2.54 | 0.735 | 18.67 |



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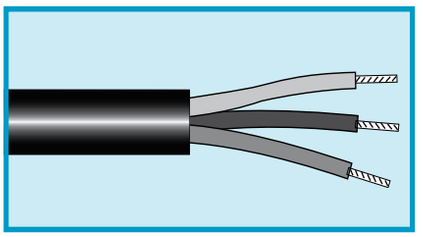
# Manhattan™ Cordsets

## 300 V 3-Conductor Cordage
## PVC



**SJT, SVT**
**UL 62**
**CSA C22.2 No. 49**

### Operating Temperature

- -30°C to +105°C

### Conductor Color Coding

- Black, white, green/yellow (NEC)
- Blue, brown, green/yellow (IEC 60446)

### Materials

- Stranded bare copper conductors
- PVC insulation
- Aluminum/polyester foil shield
  Foil facing inward
  Tinned copper drain wire one even AWG size smaller than conductor
- Black or slate PVC jacket

### Availability

250 ft (76.2 m)
(Minimums may apply)

### 3-Conductor Cords (Unshielded)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm | |
| | | | | | Type SJT | | | | | | |
| **1952/3T** | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.032 | 0.81 | 0.032 | 0.81 | 0.309 | 7.85 | NEC |
| **1953/3T** | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.032 | 0.81 | 0.032 | 0.81 | 0.335 | 8.51 | NEC |
| | | | | | Type SVT | | | | | | |
| **1951/3T** | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.016 | 0.41 | 0.032 | 0.81 | 0.241 | 6.12 | NEC |
| | | | | | Type SJT | | | | | | |
| **1941/3*** | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.032 | 0.81 | 0.032 | 0.81 | 0.310 | 7.87 | IEC |
| **1942/3*** | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.032 | 0.81 | 0.032 | 0.81 | 0.336 | 8.53 | IEC |
| **1943/3*** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.032 | 0.81 | 0.368 | 9.35 | IEC |

*Black jacket only.

### 3-Conductor Cords (Foil Shield)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | | Color Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm | |
| | | | | | Type SJT | | | | | | |
| **1941/3F*** | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.032 | 0.81 | 0.032 | 0.81 | 0.314 | 7.98 | IEC |
| **1942/3F*** | 16 | 1.32 | 65/34 | 65 x 0.16 | 0.032 | 0.81 | 0.032 | 0.81 | 0.340 | 8.64 | IEC |
| **1943/3F*** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.032 | 0.81 | 0.372 | 9.45 | IEC |

*Black jacket only.

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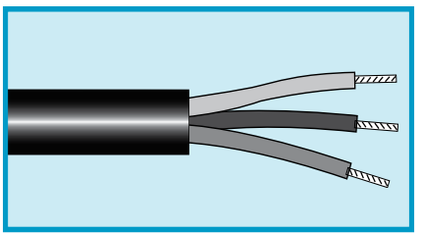
# Manhattan™ Cordsets

## 300 V 3-Conductor Cordage
## Rubber



**SJ, SV**
**UL 62**
**CSA C22.2 No. 49**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- Black, white, green

### Materials

- Stranded bare copper conductors
- Rubber insulation
- Black chlorinated polyethylene jacket

### Availability

250 ft (76.2 m)
(Minimums may apply)

**3-Conductor Cords (Unshielded)**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| | | | | | **Type SJ** | | | | | |
| **1952/3** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.034 | 0.86 | 0.309 | 7.85 |
| **1953/3** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.034 | 0.86 | 0.340 | 8.64 |
| | | | | | **Type SV** | | | | | |
| **1951/3** | 18 | 0.82 | 41/34 | 41 x 0.16 | 0.017 | 0.43 | 0.036 | 0.91 | 0.256 | 6.50 |



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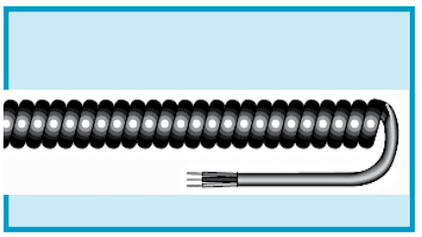
# Manhattan™ Cordsets

## 300 V Retractile Communications Cords



**UL AWM 2464**

### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- See table

### Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Black PVC Jacket

### Availability

1-piece packages
(Minimums may apply)

**Unshielded, 1 A**
**Cord Length: 1 ft (0.30 m) Retracted, 5 ft (1.5 m) Extended**

**23 AWG (0.27 mm²)**

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 12" (304 mm)

| Part No. | Conductors | Coil Diameter | | Jacket Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **702R** | 2 | 0.688 | 17.48 | 0.190 | 4.83 |
| **703R** | 3 | 0.688 | 17.48 | 0.200 | 5.08 |
| **704R** | 4 | 0.750 | 19.05 | 0.220 | 5.59 |
| **705R** | 5 | 0.875 | 22.23 | 0.230 | 5.84 |
| **706R** | 6 | 0.875 | 22.23 | 0.230 | 5.84 |
| **707R** | 7 | 0.875 | 22.23 | 0.250 | 6.35 |

**Unshielded, 1 A**
**Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended**

**23 AWG (0.27 mm²)**

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Jacket Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **702/2R** | 2 | 0.625 | 15.88 | 0.180 | 4.57 |
| **703/2R** | 3 | 0.688 | 17.48 | 0.190 | 4.83 |
| **704/2R** | 4 | 0.688 | 17.48 | 0.200 | 5.08 |
| **705/2R** | 5 | 0.750 | 19.05 | 0.215 | 5.46 |
| **706/2R** | 6 | 0.875 | 22.23 | 0.230 | 5.84 |
| **707/2R** | 7 | 0.875 | 22.23 | 0.230 | 5.84 |

**Unshielded, 1 A**
**Cord Length: 3 ft (0.91 m) Retracted, 15 ft (4.5 m) Extended**

**23 AWG (0.27 mm²)**

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Jacket Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **704/3R** | 4 | 0.688 | 17.48 | 0.200 | 5.08 |
| **705/3R** | 5 | 0.750 | 19.05 | 0.210 | 5.33 |
| **706/3R** | 6 | 0.875 | 22.23 | 0.230 | 5.84 |
| **707/3R** | 7 | 0.875 | 22.23 | 0.230 | 5.84 |

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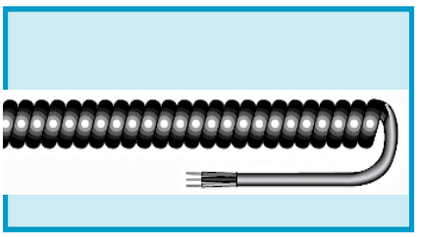
# Manhattan™ Cordsets

## 300 V Retractile Communications Cords



### UL AWM 2464

### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- See table

### Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Black PVC Jacket

### Availability

1-piece packages
(Minimums may apply)

**Unshielded, 1 A**
**Cord Length: 4 ft (1.2 m) Retracted, 20 ft (6.1 m) Extended**

**23 AWG (0.27 mm²)**

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Jacket Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **703/4R** | 3 | 0.688 | 17.48 | 0.190 | 4.83 |
| **704/4R** | 4 | 0.688 | 17.48 | 0.200 | 5.08 |
| **705/4R** | 5 | 0.750 | 19.05 | 0.220 | 5.59 |
| **706/4R** | 6 | 0.875 | 22.23 | 0.230 | 5.84 |
| **707/4R** | 7 | 0.875 | 22.23 | 0.230 | 5.84 |
| **708/4R** | 8 | 0.875 | 22.23 | 0.250 | 6.35 |
| **710/4R** | 10 | 0.938 | 23.83 | 0.280 | 7.11 |
| **712/4R** | 12 | 1.000 | 25.40 | 0.290 | 7.37 |
| **715/4R** | 15 | 1.063 | 27.00 | 0.310 | 7.87 |

**Shielded: Spiral Wrapped Tinned Copper, 1A**
**Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended**

**23 AWG (0.27 mm²)**

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | | Shielding |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **722/2R** | 2 | 0.750 | 19.05 | 0.210 | 5.33 | Individual conductors |
| **723/2R** | 3 | 0.750 | 19.05 | 0.200 | 5.08 | 2 unshielded<br>1 shielded |

**Conductor Color Coding**

| | | |
|---|---|---|
| 1 Black | 6 Blue | 11 Violet |
| 2 White | 7 Yellow | 12 Tan |
| 3 Red | 8 Brown | 13 White/Black |
| 4 Green | 9 Slate | 14 Red/Black |
| 5 Orange | 10 Pink | 15 Green/Black |

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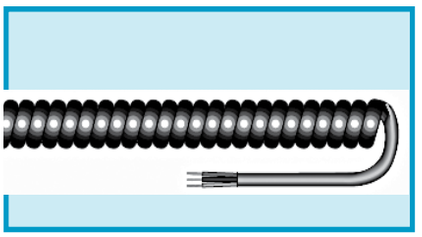
# Manhattan™ Cordsets

## 300 V Retractile Communications Cords



**UL AWM 4182, 4194, 4195, 4196, 4197, 4198**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- See table

### Materials

- Stranded tinned copper conductors
- Rubber insulation
- Black neoprene jacket

### Availability

1-piece packages
(Minimums may apply)

**Unshielded, 1 A**
**Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended**

**23 AWG (0.27 mm²)**

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness:
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **680/2** | 2 | 0.750 | 19.05 | 0.220 | 5.59 | 4194 |
| **681/2** | 3 | 0.813 | 20.65 | 0.220 | 5.59 | 4195 |
| **682/2** | 4 | 0.938 | 23.83 | 0.250 | 6.35 | 4196 |
| **683/2** | 5 | 1.063 | 27.00 | 0.290 | 7.37 | 4197 |
| **684/2** | 6 | 1.125 | 28.58 | 0.310 | 7.87 | 4198 |
| **685/2** | 7 | 1.250 | 31.75 | 0.320 | 8.13 | 4182 |

**Unshielded, 1 A**
**Cord Length: 4 ft (1.2 m) Retracted, 20 ft (6.1 m) Extended**

**23 AWG (0.27 mm²)**

Stranding: 21/36 (21 x 0.13 mm)
Insulation thickness:
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **680/4** | 2 | 0.743 | 18.87 | 0.215 | 5.46 | 4194 |
| **681/4** | 3 | 0.753 | 19.13 | 0.220 | 5.59 | 4195 |
| **682/4** | 4 | 0.875 | 22.23 | 0.250 | 6.35 | 4196 |
| **683/4** | 5 | 1.008 | 25.60 | 0.285 | 7.24 | 4197 |
| **684/4** | 6 | 1.110 | 28.19 | 0.305 | 7.75 | 4198 |
| **685/4** | 7 | 1.140 | 28.96 | 0.320 | 8.13 | 4182 |

### Conductor Color Coding

| | |
|---|---|
| 1 Black | 5 Blue |
| 2 White | 6 Yellow |
| 3 Red | 7 Brown |
| 4 Green | |

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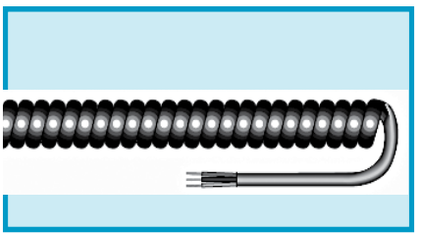
# Manhattan™ Cordsets

## 300 V Retractile Communications Cords



**SO, SVO, SJO**
**UL 62**
**CSA C22.2 No. 49**

### Operating Temperature

- -20°C to +90°C

### Conductor Color Coding

- 1 Black, 2 White, 3 Red, 4 Green

### Materials

- Stranded bare copper conductors
- Rubber insulation
- Black rubber jacket

### Availability

1-piece packages
(Minimums may apply)

**Types SV and SJO**
**Cord Length: 1 ft (0.30 m) Retracted, 5 ft (1.5 m) Extended**

**18 AWG (0.82 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| | | **Type SVO** | | | |
| **725** | 2 | 0.895 | 22.73 | 0.220 | 5.59 |
| | | **Type SJO** | | | |
| **727** | 3 | 1.263 | 32.08 | 0.33 | 9.4 |

**Type SVO**
**Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended**

**18 AWG (0.82 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **760/2** | 3 | 1.000 | 25.40 | 0.27 | 7.0 |

**Type SVO**
**Cord Length: 4 ft (1.2 m) Retracted, 20 ft (6.1 m) Extended**

**18 AWG (0.82 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **760/4** | 3 | 1.000 | 25.40 | 0.27 | 7.0 |

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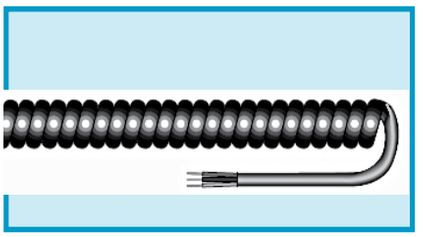
# Manhattan™ Cordsets

## 300 V/600 V Retractile Communications Cords



**SO, SVO, SJO**
**UL 62**
**CSA C22.2 No. 49**

### Operating Temperature

- -20°C to +90°C

### Conductor Color Coding

- 1 Black, 2 White, 3 Red, 4 Green

### Materials

- Stranded bare copper conductors
- Rubber insulation
- Black rubber jacket

### Availability

1-piece packages
(Minimums may apply)

**Type SJO, 300 V**
**Cord Length: 4 ft (1.2 m) Retracted, 20 ft (6.1 m) Extended**

**16 AWG (1.31 mm²)**

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.030 (0.76 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **665/4** | 3 | 1.335 | 33.91 | 0.385 | 9.78 |

**Type SO, 600 V**
**Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended**

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.030 (0.76 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **674/2** | 4 | 2.055 | 52.20 | 0.610 | 15.49 |

**Type SO, 600 V**
**Cord Length: 4 ft (1.2 m) Retracted, 20 ft (6.1 m) Extended**

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.030 (0.76 mm)
Lead length, each end: 6" (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **674/4** | 4 | 2.055 | 52.20 | 0.610 | 15.49 |

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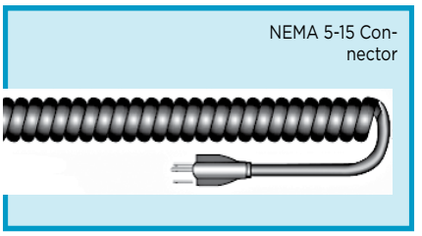
# Manhattan™ Cordsets

## 300 V Retractile Power Cords




**SVO, SJO**
**UL 62 and 817**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- 1 Black, 2 White, 3 Green or Green/Yellow

### Materials

- Stranded bare copper conductors
- Rubber insulation
- Black neoprene jacket
- Molded NEMA 5-15P male plug, one end

### Availability

1-piece packages
(Minimums may apply)

**Types SVO and SJO**
**Cord Length: 1 ft (0.30 m) Retracted, 5 ft (1.5 m) Extended**

**18 AWG (0.82 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)
Jacket stripped 1.5" (38.1 mm); insulation stripped 0.5" (12.7 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Watts | Amps |
| | | | Type SVO | | | | |
| **654** | 2 | 0.875 | 22.23 | 0.240 | 6.10 | 1250 | 10 |
| | | | Type SJO | | | | |
| **656** | 3 | 1.375 | 34.93 | 0.330 | 8.38 | 1250 | 10 |

**Type SJO**
**Cord Length: 2 ft (0.61 m) Retracted, 10 ft (3.0 m) Extended**

**16 AWG (1.31 mm²)**

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)
Jacket stripped 1.5" (38.1 mm); insulation stripped 0.5" (12.7 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Watts | Amps |
| **659** | 3 | 1.333 | 33.86 | 0.350 | 8.89 | 1625 | 13 |

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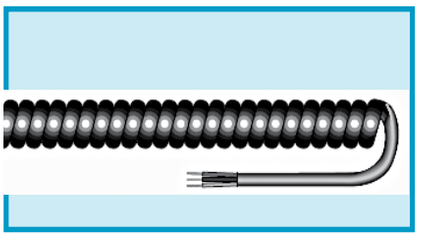
## 30 V Miniature Retractile Communications Cords



### UL AWM 20013

#### Operating Temperature

- -20°C to +60°C

#### Conductor Color Coding

- 1 Black, 2 White, 3 Red, 4 Green

#### Materials

- Stranded tinned copper conductors
- PVC insulation
- Black PVC Jacket

#### Availability

1-piece packages

**Cord length: 2 ft (0.61 m) retracted, 10 ft (3.0 m) extended**

**28 AWG (0.09 mm²)**

Stranding: 19/40 (19 x 0.08 mm)
Insulation thickness: 0.012 (0.30 mm)
Lead length, each end: 6 (152 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **651** | **2** | 0.471 | 11.96 | 0.135 | 3.43 |
| **652** | **4** | 0.592 | 15.04 | 0.150 | 3.81 |

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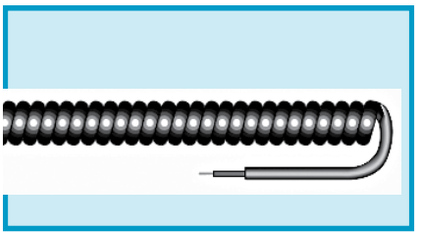
## 5000 V Retractile Test Lead Wire



### Operating Temperature

- -30°C to +60°C

### Conductor Color Coding

- Black or red

### Materials

- Stranded tinned copper conductors
- Rubber insulation
- Black jacket

### Availability

1-piece packages
(Minimums may apply)

**20 AWG (0.53 mm²)**

Stranding: 41/36 (41 x 0.13 mm)
Insulation thickness: 0.050 (1.52 mm)
Jacket stripped 1.5" (38.1 mm); insulation stripped 0.50" (12.7 mm)

| Part No. | Conductors | Coil Diameter | | Cord Diameter | | Power Rating | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Watts | Amps |
| **650*** | 1 | 0.580 | 14.73 | 0.165 | 4.19 | 1250 | 10 |

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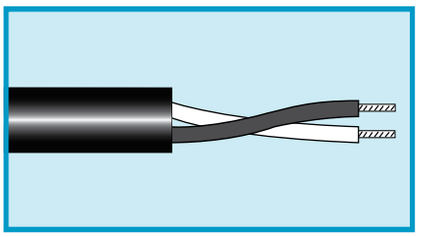
# Manhattan™ Cordsets

## 2000 V Portable Power Cable



**Type W**
**ICEA Accepted**
**NEMA Accepted**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- See tables

### Materials

- Stranded bare copper conductors
- Thermoset insulation
- Black chlorinated polyethylene (CPE) jacket

### Availability

Cut to specific length
(Minimums may apply)

### 1-Conductor Cable

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | | Current-Carrying Capacity* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm | Amps |
| **7431** | 6 | 13.57 | 133/27 | 133 x 0.36 | 0.063 | 1.60 | 0.080 | 2.03 | 0.510 | 12.95 | 85 |
| **7432** | 4 | 21.55 | 133/25 | 133 x 0.45 | 0.063 | 1.60 | 0.080 | 2.03 | 0.570 | 14.48 | 110 |
| **7434** | 2 | 34.45 | 133/23 | 133 x 0.57 | 0.063 | 1.60 | 0.080 | 2.03 | 0.660 | 16.76 | 150 |
| **7436** | 1/0 | 53.1 | 259/24 | 259 x 0.51 | 0.078 | 1.98 | 0.080 | 2.03 | 0.770 | 19.56 | 200 |
| **7437** | 2/0 | 67.08 | 259/23 | 259 x 0.57 | 0.078 | 1.98 | 0.080 | 2.03 | 0.820 | 20.83 | 235 |
| **7439** | 4/0 | 107 | 259/21 | 259 x 0.72 | 0.078 | 1.98 | 0.080 | 2.03 | 0.930 | 23.62 | 315 |

Conductor color coding: black.
*Single conductor at 40°C ambient.

### 2-Conductor Cable

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | | Current-Carrying Capacity* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm | Amps |
| **7680** | 8 | 8.61 | 133/29 | 133 x 0.28 | 0.063 | 1.60 | 0.095 | 2.41 | 0.810 | 20.57 | 50 |
| **7681** | 6 | 13.57 | 133/27 | 133 x 0.36 | 0.063 | 1.60 | 0.095 | 2.41 | 0.930 | 23.62 | 65 |
| **7682** | 4 | 21.55 | 133/25 | 133 x 0.45 | 0.063 | 1.60 | 0.110 | 2.79 | 1.080 | 27.43 | 90 |
| **7684** | 2 | 34.45 | 133/23 | 133 x 0.57 | 0.063 | 1.60 | 0.140 | 3.56 | 1.270 | 32.26 | 125 |

Conductor color coding: black, white.
*Single conductor at 40°C ambient.

### 3-Conductor Cable

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | | Current-Carrying Capacity* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm | Amps |
| **7700** | 8 | 8.61 | 133/29 | 133 x 0.28 | 0.063 | 1.60 | 0.140 | 3.56 | 0.910 | 23.11 | 50 |
| **7701** | 6 | 13.57 | 133/27 | 133 x 0.36 | 0.063 | 1.60 | 0.140 | 3.56 | 1.010 | 25.65 | 65 |
| **7702** | 4 | 21.6 | 133/25 | 133 x 0.45 | 0.063 | 1.60 | 0.140 | 3.56 | 1.170 | 29.72 | 85 |

Conductor color coding: black, white, green.
*Single conductor at 40°C ambient.

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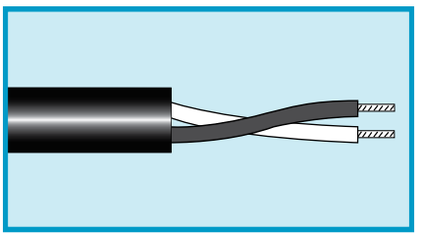
## 2000 V Portable Power Cable



**Type W**
**ICEA Accepted**
**NEMA Accepted**

### Operating Temperature

- -30°C to +90°C

### Conductor Color Coding

- See tables

### Materials

- Stranded bare copper conductors
- Thermoset insulation
- Black chlorinated polyethylene (CPE) jacket

### Availability

Cut to specific length
(Minimums may apply)

### 4-Conductor Cable

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | | Current-Carrying Capacity* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm | Amps |
| **7800** | 8 | 8.61 | 133/29 | 133 x 0.28 | 0.063 | 1.60 | 0.110 | 2.79 | 0.990 | 25.15 | 40 |
| **7801** | 6 | 13.57 | 133/27 | 133 x 0.36 | 0.063 | 1.60 | 0.110 | 2.79 | 1.010 | 25.65 | 50 |

Conductor color coding: black, white, green, red.
*Single conductor at 40°C ambient.

### 4-Conductor Cable with Ground

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Current-Carrying Capacity* | Ground Wire** | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Amps | AWG | mm² |
| **7760** | 8 | 8.61 | 133/29 | 133 x 0.28 | 0.063 | 1.60 | 0.990 | 25.15 | 55 | 12 | 3.08 |
| **7761** | 6 | 13.6 | 133/0.0140 | 133 x 0.36 | 0.063 | 1.60 | 1.100 | 27.94 | 55 | 12 | 3.08 |
| **7762** | 4 | 21.6 | 133/0.0177 | 133 x 0.45 | 0.063 | 1.60 | 1.270 | 32.26 | 75 | 10 | 5.32 |
| **7764** | 2 | 34.4 | 133/0.0223 | 133 x 0.57 | 0.063 | 1.60 | 1.480 | 37.59 | 100 | 9 | 7.00 |
| **7765** | 1 | 42.4 | 133/0.0251 | 133 x 0.64 | 0.078 | 1.98 | 1.680 | 42.67 | 110 | 8 | 8.63 |
| **7766** | 1/0 | 53.0 | 259/24 | 259 x 0.51 | 0.078 | 1.98 | 1.790 | 45.47 | 130 | 7 | 10.5 |

Conductor color coding: black, white, red, orange.
*Single conductor at 40°C ambient.
**Ground wire is stranded bare copper with insulation.

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# Manhattan™ Thermocouple Cable

## Temperature Measurement and Control

The measurement of temperature is one of the most vital functions in the control of manufacturing and processing operations. As demands for greater quality, reliability, and economy increase, the demands for more precise measurement and control increase. Newer and more sophisticated electronic circuitry is employed creating stringent demands on the wire and cable used to sense and transmit temperature measurements. To meet these ever-increasing demands, Alpha has a full line of thermocouple-grade wire and thermocouple extension wire and cable.

## The Thermocouple

At the heart of all temperature measurements is the thermocouple. Although involving very complex design parameters, the fundamental concept of all thermocouples is the same. Two wires of dissimilar metal are joined together at one end. An increase in temperature creates an electromotive force (EMF) or signal, which is transmitted through these wires to a monitoring device which "reads" this signal and displays it on a previously calibrated meter or digital device.

The monitoring device is usually at a location some distance away from the actual thermocouple. To connect the thermocouple to the monitor requires wire or cable (for multiple thermocouple installations) that will maintain the integrity of the temperature-EMF signal generated by the primary wires in the thermocouple.

## Conductor Materials

The range and accuracy of temperature measurement are dependent on the conductor materials employed. Pairs of various metal alloys will react differently with changes in temperature.

The following tables give the temperature range and tolerances for the most popular alloy combinations. All Alpha thermocouple wire and cable is tested and calibrated to the standard limits of error as indicated. Where situations require closer tolerances, wire and cable calibrated to the special error limits is available under special order.

**Limits of Error for Thermocouple Grade**

| ANSI Type | Material | Temperature Range (°C) | Standard Limits (±) | Special Limits (±) |
|---|---|---|---|---|
| J | Iron/Constantan | 0 to 277 | 2.22°C | 1.11°C |
| | | 277 to 760 | 0.75% | 0.375% |
| K | Chromel/Alumel | 0 to 277 | 2.22°C | 1.11°C |
| | | 277 to 1260 | 0.75% | 0.375% |
| T | Copper/Constantan | -184 to -101 | — | 1% |
| | | -101 to -59 | 2% | 1% |
| | | -59 to 93 | 0.83°C | 0.42°C |
| | | 93 to 371 | 0.75% | 0.375% |
| E | Chromel/Constantan | 0 to 316 | 1.67°C | 1.25°C |
| | | 316 to 871 | 0.5% | 0.375% |
| R | Platinum 13% Rhodium/ Platinum | 0 to 538 | 1.39°C | — |
| | | 538 to 1482 | 0.25% | — |
| S | Platinum 10% Rhodium/ Platinum | 0 to 538 | 1.39°C | — |
| | | 538 to 1482 | 0.25% | — |

# Manhattan™ Thermocouple Cable

### Limits of Error for Thermocouple Extension Wire

| ANSI Type | Material | Temperature Range (°C) | Standard Limits (±) | Special Limits (±) |
|---|---|---|---|---|
| JX | Iron/Constantan | -18 to 204 | 2.22°C | 1.11°C |
| KX | Chromel/Alumel | -18 to 204 | 2.22°C | 1.11°C |
| TX | Copper/Constantan | -59 to 93 | 0.83°C | 0.42°C |
| EX | Chromel/Constantan | -18 to 204 | 2.22°C | 1.11°C |
| RSX | Copper/Copper Alloy 11 | 24 to 204 | 6.67°C | — |

### Insulation and Jacket Material Properties

| Material | Temperature (°C) | | Mechanical | | | Chemical Resistance | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Continuous | Intermittent | Flame | Abrasion | Flexibility | Solvents | Acids | Bases | Moisture |
| PVC | 105 | — | G | G | G | F | G | G | G |
| FEP | 200 | — | E | E | G | E | E | E | E |
| TFE Tape | 260 | — | E | E | E | E | E | E | E |
| Glass Braid | 510 | 650 | E | F/G | G | E | E | E | F/G |
| High-Temp Glass Braid | 700 | 870 | E | F/G | G | E | E | E | F/G |

E = Excellent, G = Good, F = Fair

### ISA/ANSI Thermocouple Color Coding

| ANSI Type | Positive Wire | | Negative Wire | | Jacket Color | | |
|---|---|---|---|---|---|---|---|
| | Material | Insul. Color | Material | Insul. Color | Grade | Tracer | Extension |
| J, JX | Iron | White | Constantan | Red | Brown | Black | Black |
| K, KX | Chromel | Yellow | Alumel | Red | Brown | Yellow | Yellow |
| T, TX | Copper | Blue | Constantan | Red | Brown | Blue | Blue |
| E, EX | Chromel | Violet | Constantan | Red | Brown | Violet | Violet |
| RX, SX | Copper | Black | Alloy 11 | Red | — | — | Green |


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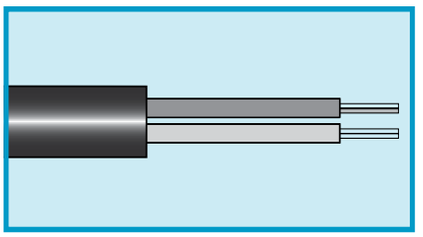
# Manhattan™ Thermocouple Grade Wire



**ISA MC 96.1**

## Operating Temperature

- -20°C to +510°C

## Conductor Color Coding

- ISA color-coded insulation and jacket

## Materials

- Solid or stranded alloy wire
- Braided fiberglass or FEP insulation
- Braided fiberglass or FEP jacket

## Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

### Duplex Parallel: Glass Braid Insulation, Glass Braid Jacket

| Part No. | Conductor Size | | Outer Dimension | |
|---|---|---|---|---|
| | AWG | $mm^2$ | Inch | mm |
| **Type J: Iron/Constantan** | | | | |
| **5769/1** | 30 | 0.05 | 0.030 x 0.048 | 0.76 x 1.22 |
| **5766** | 24 | 0.20 | 0.040 x 0.068 | 1.02 x 1.73 |
| **5767H*** | 24 | 0.20 | 0.064 x 0.102 | 1.63 x 2.59 |
| **5763H*** | 20 | 0.51 | 0.084 x 0.142 | 2.13 x 3.61 |
| **5762S**** | 20 | 0.56 | 0.090 x 0.154 | 2.29 x 3.91 |
| **M9180012** | 20 | 0.51 | 0.060 x 0.106 | 1.53 x 2.69 |
| **Type K: Chromel/Alumel** | | | | |
| **5776** | 24 | 0.20 | 0.040 x 0.068 | 1.02 x 1.73 |
| **5772S**** | 20 | 0.56 | 0.060 x 0.108 | 1.53 x 2.74 |
| **5773H *** | 20 | 0.51 | 0.084 x 0.142 | 2.13 x 3.61 |
| **M9180013** | 20 | 0.51 | 0.060 x 0.106 | 1.53 x 2.69 |
| **Type T: Copper/Constantan** | | | | |
| **M9180014** | 20 | 0.51 | 0.060 x 0.106 | 1.53 x 2.69 |

*High temperature
**7/28 (7 x 0.32 mm) stranding

### Duplex Parallel: FEP Insulation, FEP Jacket

| Part No. | Conductor Size | | Outer Dimension | |
|---|---|---|---|---|
| | AWG | $mm^2$ | Inch | mm |
| **Type J: Iron/Constantan** | | | | |
| **M9160012** | 20 | 0.5 | 0.072 x 0.124 | 1.83 x 3.15 |
| **Type K: Chromel/Alumel** | | | | |
| **M9160013** | 20 | 0.5 | 0.072 x 0.124 | 1.83 x 3.15 |
| **Type T: Copper/Constantan** | | | | |
| **M9160014** | 20 | 0.5 | 0.072 x 0.124 | 1.83 x 3.15 |

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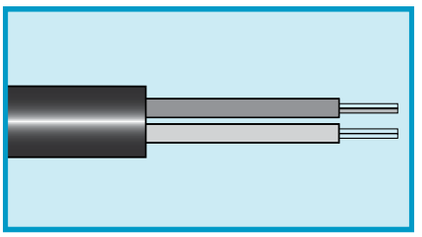
# Manhattan™ Thermocouple Extension Wire

## Duplex Parallel, Unshielded



**ISA MC 96.1**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- ISA color-coded insulation and jacket

### Materials

- Solid or stranded alloy wire
- PVC, glass braid, or FEP insulation
- PVC, glass braid, or FEP jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

| Part No. | Conductor Size | | Outer Dimension | |
|---|---|---|---|---|
| | AWG | mm² | Inch | mm |
| **Type JX: Iron/Constantan** | | | | |
| **5716** | 20 | 0.51 | 0.092 x 0.154 | 2.34 x 3.91 |
| **5710** | 14 | 2.08 | 0.124 x 0.218 | 3.15 x 5.54 |
| **Type KX: Chromel/Alumel** | | | | |
| **5724** | 20 | 0.51 | 0.092 x 0.154 | 2.34 x 3.91 |
| **5724S*** | 20 | 0.56 | 0.098 x 0.166 | 2.49 x 4.22 |
| **5721** | 16 | 1.31 | 0.111 x 0.192 | 2.82 x 4.88 |
| **Type TX: Copper/Constantan** | | | | |
| **5731** | 20 | 0.51 | 0.092 x 0.154 | 2.34 x 3.91 |
| **5731S*** | 20 | 0.56 | 0.098 x 0.166 | 2.49 x 4.22 |
| **5730** | 16 | 1.31 | 0.111 x 0.192 | 2.82 x 4.88 |
| **Type RSX: Copper/Copper Alloy 11** | | | | |
| **5740** | 16 | 1.31 | 0.111 x 0.192 | 2.82 x 4.88 |

*7/28 (7 x 0.32 mm) stranding

### Glass Braid Insulation, Glass Braid Jacket

| Part No. | Conductor Size | | Outer Dimension | |
|---|---|---|---|---|
| | AWG | mm² | Inch | mm |
| **Type JX: Iron/Constantan** | | | | |
| **5714** | 16 | 1.31 | 0.085 x 0.150 | 2.16 x 3.81 |
| **Type SX: Copper/Copper Alloy 11** | | | | |
| **5741H*** | 16 | 1.31 | 0.085 x 0.150 | 2.16 x 3.81 |

*High temperature

### FEP Insulation, FEP Jacket

| Part No. | Conductor Size | | Outer Dimension | |
|---|---|---|---|---|
| | AWG | mm² | Inch | mm |
| **Type JX: Iron/Constantan** | | | | |
| **5715** | 16 | 1.31 | 0.087 x 0.154 | 2.21 x 3.91 |

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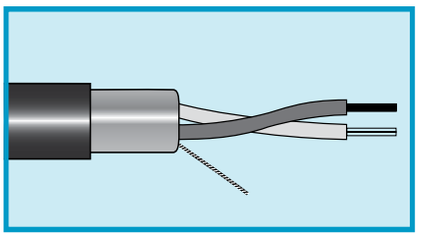
# Manhattan™ Thermocouple Extension Wire

## 300 V, Single and Multipair, Unshielded and Foil Shield



**ISA MC 96.1**
**UL PLTC, ITC**

### Operating Temperature

- -20°C to +105°C
- -80°C to +200°C (High-temperature versions)

### Conductor Color Coding

- ISA color-coded insulation and jacket

### Materials

- Solid alloy wire
- PVC or FEP insulation
- Aluminum/polyester shield, 25% overlap min.
  Foil facing inward
  Tinned copper drain wire
- PVC or FEP jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**Unshielded Single Pair, PVC Insulation, PVC Jacket**
**UL PLTC/ITC, 300 V, 105°C**

| Part No. | Conductor Size | | Outer Dimension | |
|---|---|---|---|---|
| | AWG | mm² | Inch | mm |
| **Type EX: Chromel/Constantan** | | | | |
| **M9000011** | 20 | 0.51 | 0.205 | 5.21 |
| **M9006011** | 16 | 1.31 | 0.235 | 5.97 |
| **Type JX: Iron/Constantan** | | | | |
| **M9000012** | 20 | 0.51 | 0.205 | 5.21 |
| **M9006012** | 16 | 1.31 | 0.235 | 5.97 |
| **Type KX: Chromel/Alumel** | | | | |
| **M9000013** | 20 | 0.51 | 0.205 | 5.21 |
| **M9006013** | 16 | 1.31 | 0.235 | 5.97 |
| **Type TX: Copper/Constantan** | | | | |
| **M9000014** | 20 | 0.51 | 0.205 | 5.21 |
| **M9006014** | 16 | 1.31 | 0.235 | 5.97 |

**Foil Shielded Individual and Overall, Twisted Pairs, PVC Insulation, PVC Jacket**
**UL PLTC/ITC, 300 V, 105°C**

| Part No. | Conductor Size | | Pairs | Outer Dimension | |
|---|---|---|---|---|---|
| | AWG | mm² | | Inch | mm |
| **Type EX: Chromel/Constantan** | | | | | |
| **M9020011** | 20 | 0.51 | 1 | 0.205 | 5.21 |
| **M9240041** | 20 | 0.51 | 4 | 0.440 | 11.18 |
| **M9240081** | 20 | 0.51 | 8 | 0.550 | 13.97 |
| **M9240121** | 20 | 0.51 | 12 | 0.665 | 16.89 |
| **M9240241** | 20 | 0.51 | 24 | 0.875 | 22.23 |
| **M9026011** | 16 | 1.31 | 1 | 0.235 | 5.97 |
| **Type JX: Iron/Constantan** | | | | | |
| **M9020012** | 20 | 0.51 | 1 | 0.205 | 5.21 |
| **M9240042** | 20 | 0.51 | 4 | 0.440 | 11.18 |
| **M9240082** | 20 | 0.51 | 8 | 0.550 | 13.97 |
| **M9240122** | 20 | 0.51 | 12 | 0.665 | 16.89 |
| **M9240162** | 20 | 0.51 | 16 | 0.740 | 18.80 |
| **M9240242** | 20 | 0.51 | 24 | 0.875 | 22.23 |
| **M9240362** | 20 | 0.51 | 36 | 1.010 | 25.65 |
| **M9026012** | 16 | 1.31 | 1 | 0.235 | 5.97 |
| **Type KX: Chromel/Alumel** | | | | | |
| **M9020013** | 20 | 0.51 | 1 | 0.205 | 5.21 |
| **M9240043** | 20 | 0.51 | 4 | 0.440 | 11.18 |
| **M9240083** | 20 | 0.51 | 8 | 0.550 | 13.97 |
| **M9240123** | 20 | 0.51 | 12 | 0.665 | 16.89 |
| **M9240243** | 20 | 0.51 | 24 | 0.875 | 22.23 |
| **M9026013** | 16 | 1.31 | 1 | 0.235 | 5.97 |
| **Type TX: Copper/Constantan** | | | | | |
| **M9020014** | 20 | 0.51 | 1 | 0.205 | 5.21 |
| **M9240044** | 20 | 0.51 | 4 | 0.440 | 11.18 |
| **M9240084** | 20 | 0.51 | 8 | 0.550 | 13.97 |
| **M9240124** | 20 | 0.51 | 12 | 0.665 | 16.89 |
| **M9240244** | 20 | 0.51 | 24 | 0.875 | 22.23 |
| **M9026014** | 16 | 1.31 | 1 | 0.235 | 5.97 |

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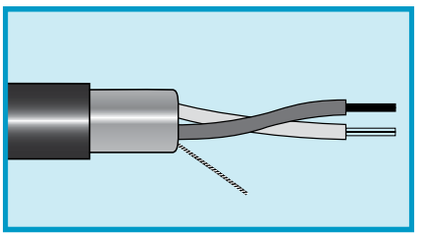
# Manhattan™ Thermocouple Extension Wire

## 300 V, Single and Multipair, Unshielded and Foil Shield



**ISA MC 96.1**
**UL PLTC, ITC**

### Operating Temperature

- -20°C to +105°C
- -80°C to +200°C (High-temperature versions)

### Conductor Color Coding

- ISA color-coded insulation and jacket

### Materials

- Solid alloy wire
- PVC or FEP insulation
- Aluminum/polyester shield, 25% overlap min.
  Foil facing inward
  Tinned copper drain wire
- PVC or FEP jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**Foil Shielded Overall, Twisted Pairs, Solid Conductors, PVC Insulation, PVC Jacket**
**UL PLTC, 300 V, 105°C**

| Part No. | Conductor Size | | Pairs | Outer Dimension | |
|---|---|---|---|---|---|
| | AWG | mm² | | Inch | mm |
| **Type JX: Iron/Constantan** | | | | | |
| **5711/2004** | 20 | 0.51 | 4 | 0.369 | 9.37 |
| **5711/2008** | 20 | 0.51 | 8 | 0.480 | 12.19 |
| **5711/2012** | 20 | 0.51 | 12 | 0.557 | 14.15 |
| **Type KX: Chromel/Alumel** | | | | | |
| **5712/2002** | 20 | 0.51 | 2 | 0.325 | 8.26 |
| **5712/2004** | 20 | 0.51 | 4 | 0.369 | 9.37 |
| **5712/2008** | 20 | 0.51 | 8 | 0.480 | 12.19 |
| **5712/2024** | 20 | 0.51 | 24 | 0.828 | 21.03 |
| **5712/2036** | 20 | 0.51 | 36 | 0.956 | 24.28 |
| **Type TX: Copper/Constantan** | | | | | |
| **5713/2004** | 20 | 0.51 | 4 | 0.369 | 9.37 |
| **5713/2012** | 20 | 0.51 | 12 | 0.557 | 14.15 |
| **5713/2024** | 20 | 0.51 | 24 | 0.828 | 21.03 |
| **Type RSX: Copper/Copper Alloy** | | | | | |
| **5714/1601** | 16 | 1.31 | 2 | 0.256 | 6.50 |

**Foil Shielded Twisted Pairs, FEP Insulation, FEP Jacket**
**High Temperature: -80°C to 200°C**

| Part No. | Conductor Size | | Pairs | Outer Dimension | |
|---|---|---|---|---|---|
| | AWG | mm² | | Inch | mm |
| **Type JX: Iron/Constantan** | | | | | |
| **5717/2001** | 20 | 0.51 | 1 | 0.150 | 3.81 |
| **5717/1601** | 16 | 1.31 | 1 | 0.188 | 4.78 |
| **Type KX: Chromel/Alumel** | | | | | |
| **5718/2001** | 20 | 0.51 | 1 | 0.150 | 3.81 |
| **5718/1601** | 16 | 1.31 | 1 | 0.188 | 4.78 |

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# Communication, Control, and Industrial Cable

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# Get control of demanding applications

The broad range of communication and control cables from Alpha Wire means you can find the right cable for your application. Our cables meet special needs, such as low-capacitance cables for extended transmission of digital signals, such as the extra flexibility of rubber insulation and jackets, or excellent shielding for electrically noisy environments.

We combine a wide range of insulation materials, shielding variations, conductor counts and gauges, as well as other options to create cables suited to any application. From traditional RS-232 connections to high-speed telemetry and data recording to high-fidelity microphone systems, our experience in materials and expertise in manufacturing means cable built to perform electrically, mechanically, and environmentally.

**Our communication and control line includes six main categories:**

- **Solar cable:** a full range of solar cables for power and control.
- **Industrial automation cable:** cable for common automation protocols such as ControlNet, DeviceNet, and PROFIBUS.
- **Flexible motor supply cable:** four-conductor double-shielded cable suited for light-duty flexing.
- **Communication and control:** round multiconductor and multipair cable in configurations suited to nearly any application.
- **Low-smoke, zero-halogen cable:** minimizes the effects from smoke and harmful corrosive gases in the event of combustion.
- **Flat cable:** planar multiconductor cable used primarily inside cabinets or equipment.



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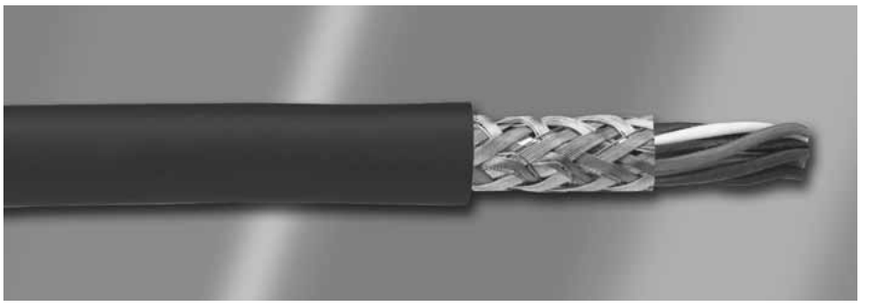
# Solar Cable



From residential rooftops to solar farms harvesting energy, our solar cables and photovoltaic wire are designed for the harsh environments of solar energy applications—the hot and cold of climate extremes, ozone and UV radiation, moisture, oil, and direct burial. Our specially formulated PVC jackets provide years of reliable service by withstanding the potential environments without failing or degrading.

## A full range for power and control

No matter what your need in connecting solar power to the grid, we have wire and cable in a range of gauges and conductor counts to satisfy it.

Our cables meet regulatory and industry requirements for photovoltaic applications.

## Applications

- **Panel monitoring and control**
- **Panel to junction box**
- **Panel to collector**
- **Collector to inverter**
- **Grounding**
- **Motor supply**

## Photovoltaic Wire

For single-conductor needs, see page 417 for our line of photovoltaic wires.

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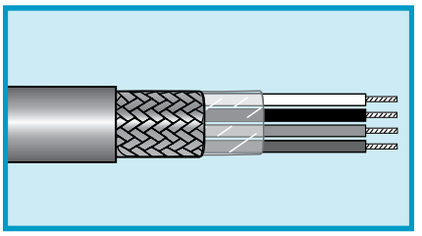
# Solar Cable

## 1000 V Braid Shield, Multiconductor, PVC/Nylon, PVC



**UL TC-ER**
**UL WTTC (1000 V)**
**UL MTW**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -40°C to +90°C (static)
- -30°C to +90°C (dynamic)
- +105°C (CSA)

### Conductor Color Coding

- Chart F (page 532)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Clear polyester wrap
- Tinned copper braid shield, 85% coverage
- Green PVC jacket

### Features

- UL Sunlight Resistant
- UL Oil Res. I
- UL Direct Burial
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-260: Cross-linked polyolefin for ground identification
- FIT-300: Dual-wall polyolefin with meltable inner wall
- FIT-750: Bonding adhesive-lined cross-linked polyolefin

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| SPM1803CY | 3 | 0.329 | 8.36 | 0.050 | 1.27 |
| SPM1804CY | 4 | 0.354 | 8.99 | 0.050 | 1.27 |
| SPM1805CY | 5 | 0.381 | 9.68 | 0.050 | 1.27 |
| SPM1807CY | 7 | 0.409 | 10.39 | 0.050 | 1.27 |
| SPM1809CY | 9 | 0.466 | 11.84 | 0.050 | 1.27 |

**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| SPM1603CY | 3 | 0.351 | 8.92 | 0.050 | 1.27 |
| SPM1604CY | 4 | 0.378 | 9.60 | 0.050 | 1.27 |
| SPM1605CY | 5 | 0.408 | 10.36 | 0.050 | 1.27 |
| SPM1607CY | 7 | 0.439 | 11.15 | 0.050 | 1.27 |
| SPM1609CY | 9 | 0.509 | 12.93 | 0.050 | 1.27 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| SPM1403CY | 3 | 0.381 | 9.68 | 0.050 | 1.27 |
| SPM1404CY | 4 | 0.412 | 10.46 | 0.050 | 1.27 |
| SPM1405CY | 5 | 0.446 | 11.33 | 0.050 | 1.27 |
| SPM1407CY | 7 | 0.481 | 12.22 | 0.050 | 1.27 |
| SPM1409CY | 9 | 0.590 | 14.99 | 0.065 | 1.65 |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| SPM1203CY | 3 | 0.422 | 10.72 | 0.050 | 1.27 |
| SPM1204CY | 4 | 0.458 | 11.63 | 0.050 | 1.27 |
| SPM1205CY | 5 | 0.497 | 12.62 | 0.050 | 1.27 |
| SPM1207CY | 7 | 0.574 | 14.58 | 0.065 | 1.65 |
| SPM1209CY | 9 | 0.659 | 16.74 | 0.065 | 1.65 |



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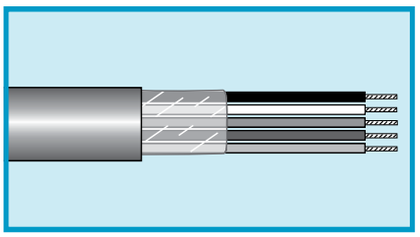
# Solar Cable

## 1000 V Unshielded, Multiconductor, PVC/Nylon, PVC



**UL TC-ER**
**UL WTTC (1000 V)**
**UL MTW**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -40°C to +90°C (static)
- -30°C to +90°C (dynamic)
- +105°C (CSA)

### Conductor Color Coding

- Chart F (page 532)

### Materials

- Stranded bare copper conductors
- PVC/nylon insulation
- Clear polyester wrap
- Green PVC jacket

### Features

- UL Sunlight Resistant
- UL Oil Res. I
- UL Direct Burial
- Suitable for use in Class I, Division 2 locations per Article 501 of the National Electric Code

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-260: Cross-linked polyolefin for ground identification
- FIT-300: Dual-wall polyolefin with meltable inner wall
- FIT-750: Bonding adhesive-lined cross-linked polyolefin

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| SPM1803 | 3 | 0.301 | 7.65 | 0.050 | 1.27 |
| SPM1804 | 4 | 0.326 | 8.28 | 0.050 | 1.27 |
| SPM1805 | 5 | 0.353 | 8.97 | 0.050 | 1.27 |
| SPM1807 | 7 | 0.381 | 9.68 | 0.050 | 1.27 |
| SPM1809 | 9 | 0.438 | 11.13 | 0.050 | 1.27 |

**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| SPM1603 | 3 | 0.323 | 8.20 | 0.050 | 1.27 |
| SPM1604 | 4 | 0.350 | 8.89 | 0.050 | 1.27 |
| SPM1605 | 5 | 0.380 | 9.65 | 0.050 | 1.27 |
| SPM1607 | 7 | 0.411 | 10.44 | 0.050 | 1.27 |
| SPM1609 | 9 | 0.475 | 12.07 | 0.050 | 1.27 |

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| SPM1403 | 3 | 0.353 | 8.97 | 0.050 | 1.27 |
| SPM1404 | 4 | 0.384 | 9.75 | 0.050 | 1.27 |
| SPM1405 | 5 | 0.418 | 10.62 | 0.050 | 1.27 |
| SPM1407 | 7 | 0.453 | 11.51 | 0.050 | 1.27 |
| SPM1409 | 9 | 0.556 | 14.12 | 0.065 | 1.65 |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm) PVC/0.005 (0.12 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| SPM1203 | 3 | 0.394 | 10.01 | 0.050 | 1.27 |
| SPM1204 | 4 | 0.430 | 10.92 | 0.050 | 1.27 |
| SPM1205 | 5 | 0.469 | 11.91 | 0.050 | 1.27 |
| SPM1207 | 7 | 0.510 | 12.95 | 0.050 | 1.27 |
| SPM1209 | 9 | 0.625 | 15.88 | 0.065 | 1.65 |

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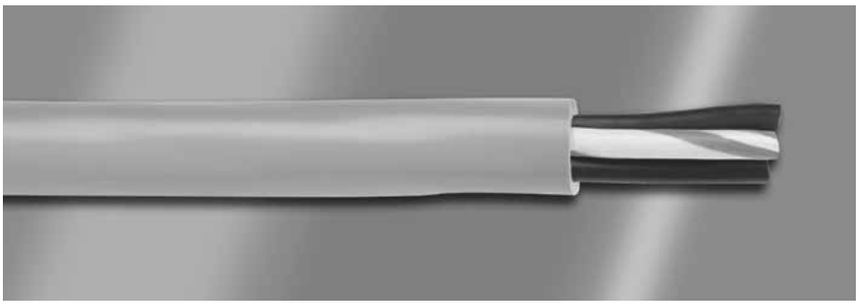
# Industrial Automation Cable

## Seamless communication for robust industrial environments



Whether you are designing a device for error proofing to increase quality or motion sensing to improve safety, trust Alpha Wire for all your Industrial Automation needs.

As industrial automation systems continue to increase in complexity, we understand the challenges that engineers and manufacturers face in designing and interconnecting system components from sensors to top-level controllers. Our range of industrial automation cables combines the industry-leading quality and exceptional reliability you expect with Alpha Wire with the performance to meet the rigorous requirements of the major automation communication architectures.

### ControlNet™

Low-loss RG-6/U coax designed to meet the high-speed, time-critical requirements of modern ControlNet factory-floor automation systems.

### RS-485

Bringing proven data transmission protocol to the factory floor, rugged RS-485 cables reduce electrical noise sensitivity to keep reliability and performance at world-class levels.

### DeviceNet™

Meeting ODVA thick and thin specifications, the cables comply with Allen-Bradley 1485 CPI-A and 1485 CPI-C, and support high data rates (500 kb/s at 100 m and 125 kb/s at 500 m).

### Fieldbus and PROFIBUS®

A complete family meets ruggedness, performance, and quality requirements of almost any fieldbus and PROFIBUS application environment.

### Industrial Twinax

A robust physical media for the transmission of PLC/DCS signals in real-time, high-throughput applications, including Allen-Bradley Data Highway networks. The cables may be installed in the same tray or conduit as 600-volt power cable.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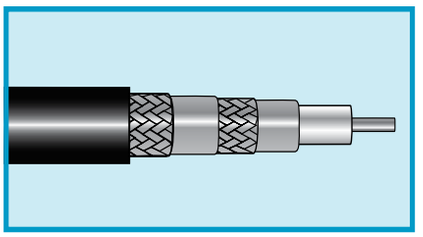
# ControlNet

## 300 V, RG-6/U Coaxial Cable, Double Braid and Foil Shielded



**UL CL2R**
**UL CMR**
**CSA CMG FT4**

### Operating Temperature

- -30°C to +75°C

### Materials

- Solid bare Copperweld conductor
- Foam polyethylene insulation
- Shielding: double braid and foil Foil +60% aluminum braid + foil +40% aluminum braid
- Black PVC jacket

### Features

- UL Sunlight Resistant
- 75-ohm nominal impedance
- 82% velocity of propagation
- 16.2 pF/ft (53.1 pF/m) nominal capacitance

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### FIT® Tubing Recommendations

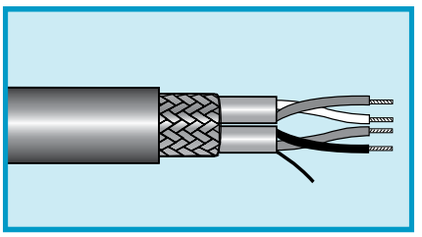
- FIT-221: General-purpose, cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin

| Part No. | Nominal Diameter | | Center Conductor | | Nominal Impedance (ohms) |
|---|---|---|---|---|---|
| | Inch | mm | AWG | mm² | |
| **6458** | 0.298 | 7.57 | 18 | 0.82 | 75 |

| Nominal Attenuation | | |
|---|---|---|
| Frequency (MHz) | Attenuation, Nom. | |
| | dB/100 ft | dB/100 m |
| 1 | 0.35 | 1.1 |
| 2 | 0.38 | 1.2 |
| 5 | 0.45 | 1.5 |
| 10 | 0.59 | 1.9 |
| 20 | 0.86 | 2.8 |
| 50 | 1.37 | 4.5 |
| 100 | 1.97 | 6.5 |
| 200 | 2.82 | 9.3 |
| 300 | 3.48 | 11.4 |
| 400 | 4.04 | 13.3 |

# DeviceNet

## 300 V Power and Data, Class 2, ODVA Thick and Thin Trunks



| Part No. | Type | Pairs | Nominal Diameter | |
|---|---|---|---|---|
| | | | Inch | mm |
| **6451** | Thick | 1 Power: 15 AWG (1.75 mm²), 19/0.0135 (19 x 0.35 mm) stranding<br>1 Data: 18 AWG (0.96 mm²), 19/30 (19 x 0.25 mm) stranding | 0.480 | 12.19 |
| **6452** | Thin | 1 Power: 22 AWG (0.38 mm²), 19/34 (19 x 0.16 mm) stranding<br>1 Data: 24 AWG (0.24 mm²), 19/36 (19 x 0.13 mm) stranding | 0.280 | 7.11 |

**UL CMG**
**UL PLTC-ER (Thick)**
**UL CL2 (Thin)**
**CSA CMG FT4**
**CSA AWM I/II A/B FT4**

### Operating Temperature

- -20°C to +75°C (static)
- 0°C to +80°C (dynamic)

### Conductor Color Coding

- Black-red power
- Blue-white data

### Materials

- Tinned copper conductors
- Each pair individually foil shielded
- PVC insulation (power pair)
- Foam HDPE insulation (data pair)
- 65% tinned copper braid overall
- Slate PVC jacket

### Features

- Oil resistant
- UL Sunlight Resistant
- 120-ohm nominal impedance (data pair)
- Compliant with Allen-Bradley part numbers 1485 CPI-A and 1485 CPI-C

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin



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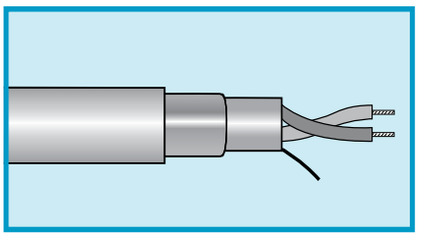
# Fieldbus

## 300 V Single-Pair Cable, Fieldbus Types A and B



| Part No. | Fieldbus Type | Pairs | Conductor | | Stranding | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | | | AWG | mm² | AWG | mm | Inch | mm |
| **6459** | A | 1 | 18 | 0.90 | 7/26 | 7 x 0.40 | 0.253 | 6.43 |
| **6460** | B | 1 | 22 | 0.33 | 7/0.0096 | 7 x 0.24 | 0.196 | 4.97 |

**UL PLTC-ER**
**UL CM**
**UL ITC**
**CSA CM**

### Operating Temperature

- -30°C to +105°C

### Conductor Color Coding

- Blue-orange

### Materials

- Tinned copper conductors
- Polyolefin insulation
- Foil shield
- Orange PVC jacket

### Features

- UL Sunlight Resistant
- 100-ohm nominal impedance

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

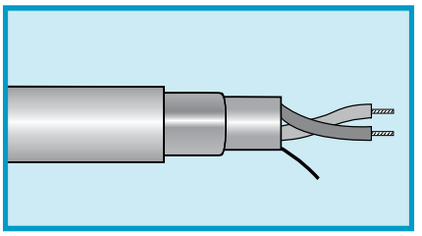
### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin

RoHS Compliant

# High-Speed Fieldbus

## 300 V Single-Pair Cable



| Part No. | Pairs | Conductor | | Stranding | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm |
| **6461** | 1 | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.351 | 8.92 |

**UL PLTC**
**UL CM**
**CSA CM**

### Operating Temperature

- -40°C to +75°C

### Conductor Color Coding

- Blue-orange

### Materials

- Tinned copper conductors
- Foam high-density polyethylene insulation
- Foil shield
- Orange PVC jacket

### Features

- UL Sunlight Resistant
- 150-ohm nominal impedance

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin



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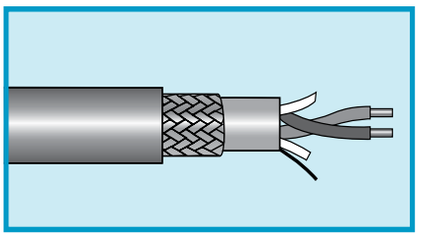
# PROFIBUS-DP

## 300 V Single-Pair Cable



| Part No. | Pairs | Conductor | | Stranding | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm |
| **6462** | 1 | 22 | 0.32 | Solid | | 0.315 | 8.00 |
| **6463** | 1 | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.315 | 8.00 |

**UL AWM 20201 (6462 only)**
**UL PLTC**
**UL CMG**
**CSA CMG FT4**

### Operating Temperature

- -30°C to +75°C (PLTC, CMG)
- -30°C to +60°C (AWM)

### Conductor Color Coding

- Red-green

### Materials

- Tinned solid or stranded copper conductors
- Foam high-density polyethylene insulation
- Foil + 65% tinned copper braid shield
- Purple PVC jacket

### Features

- UL Sunlight Resistant
- 150-ohm nominal impedance

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin

RoHS Compliant

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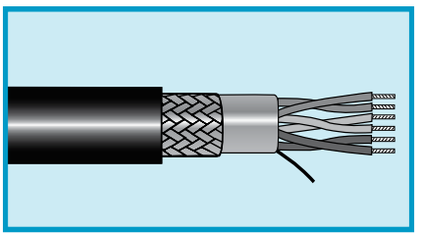
# RS-485 Cable

## 300 V Foil + Braid, Multipair



**UL CM, CMG**
**UL TC, PLTC**
**CSA CM, CMG FT1**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Chart M (page 530), except 6454

### Materials

- Tinned copper conductors
- Foam high-density polyethylene insulation
- Foil + 65% tinned copper braid shield
- Black PVC jacket

### Features

- UL Sunlight Resistant
- 120-ohm nominal impedance

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Insulation Thickness | | Jacket Thickness | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Inch | mm |
| **6453** | 1 | 0.284 | 7.21 | 0.028 | 0.71 | 0.042 | 1.07 |
| **6454*** | 1.5 | 0.300 | 7.62 | 0.032 | 0.81 | 0.042 | 1.07 |
| **6455** | 2 | 0.408 | 10.36 | 0.024 | 0.61 | 0.053 | 1.35 |
| **6456** | 3 | 0.414 | 10.52 | 0.022 | 0.56 | 0.053 | 1.35 |
| **6457** | 4 | 0.448 | 11.38 | 0.022 | 0.56 | 0.053 | 1.35 |

*Conductor color coding: white/orange-orange/white pair, white-blue single conductor.



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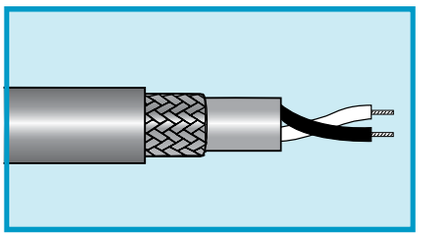
# Industrial Twinax

## 600 V Foil + Braid Shield, Single Pair



| Part No. | Pairs | Conductor | | Stranding | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm |
| **6450** | 1 | 18 | 0.90 | 7/26 | 7 x 0.40 | 0.324 | 8.23 |

**UL TC, PLTC, ITC**
**UL CMG**
**CSA CMG FT4**

### Operating Temperature

- -40°C to +75°C

### Conductor Color Coding

- Blue-white

### Materials

- Tinned stranded copper conductors
- Flame-resistant polypropylene insulation
- Foil + 55% tinned copper braid shield
- Blue PVC jacket

### Features

- UL Sunlight Resistant
- 78-ohm nominal impedance
- Meets the requirements of Allen-Bradley Data Highway Networks

### Availability

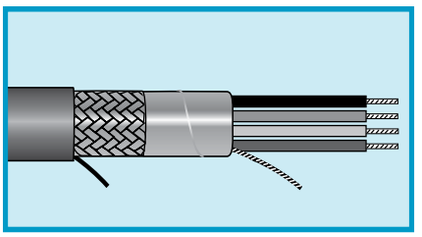
100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### FIT® Tubing Recommendations

- FIT-221: General-purpose, cross-linked polyolefin
- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin

# Flexible Motor Supply Cable

## Light Duty Flexing
## 600 V Foil/Braid, Four Conductor



**UL TC-ER**
**UL MTW**
**UL WTTC**
**CSA AWM I/II A/B FT4**
**CE**

### Operating Temperature

- -5°C to +90°C (flexing)
- -20°C to +90°C (stationary)

### Conductor Color Coding

- One yellow/green and three numbered black

### Materials

- Finely stranded bare copper conductors
- PVC/nylon insulation
- Foil + braid shield
  Aluminum/polyester/aluminum foil shield, with 25% overlap and four tinned copper drain wires
  Tinned copper braid with 70% coverage
- Black PVC jacket

### Voltage

- 600 V (UL TC-ER, MTW)
- 1000 V (UL WTTC)

### Availability

Bulk, cut to length

### FIT® Tubing Recommendations

- FIT-321: Medium-wall, adhesive-lined, cross-linked polyolefin
- FIT-600: Highly flexible, cross-linked elastomer

| 16 to 6 AWG (1.49 to 5.33 mm²) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Part No. | Conductors | Wire Size | | Stranding | | Nominal Diameter | | Jacket Thickness | | Insulation Thickness | |
| | | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **5660** | 4 | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.381 | 9.67 | 0.050 | 1.27 | 0.016 | 0.40 |
| **5661** | 4 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.418 | 10.61 | 0.050 | 1.27 | 0.016 | 0.40 |
| **5662** | 4 | 12 | 3.30 | 65/30 | 65 x 0.25 | 0.464 | 11.78 | 0.050 | 1.27 | 0.016 | 0.40 |
| **5663** | 4 | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.579 | 14.70 | 0.063 | 1.60 | 0.022 | 0.55 |
| **5664** | 4 | 8 | 8.52 | 168/30 | 168 x 0.25 | 0.760 | 19.30 | 0.063 | 1.60 | 0.032 | 0.81 |
| **5665** | 4 | 6 | 13.49 | 266/30 | 266 x 0.25 | 0.901 | 22.88 | 0.083 | 2.10 | 0.032 | 0.81 |

RoHS Compliant



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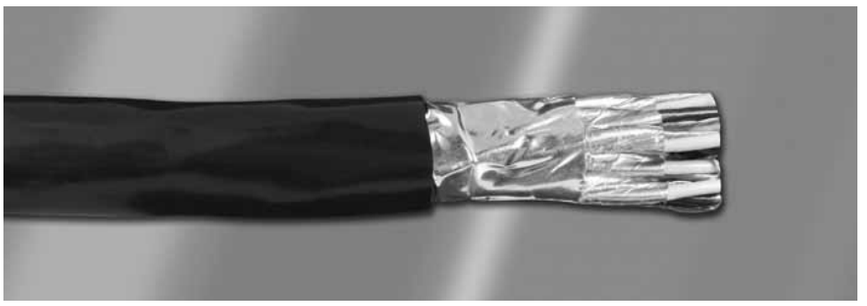
# A Full Range of Communication and Control



Our line-up of standard communication and control cables gives you maximum choice and fewer tradeoffs. By offering you a comprehensive collection of insulation/jacketing materials, shielding options, and conductor counts, you can easily select the cable that meets your most demanding needs. We have cables that go beyond the ordinary to satisfy rigorous requirements of EMI performance, transmission distances, flexibility, and temperature extremes.

### Communication and control typical applications:

- Audio systems: speakers, microphones, intercoms
- Broadcast and studio
- Data transmission: RS-232, 422, 485
- CAD/CAM
- Computer peripherals
- Business machines
- Security systems: alarms, cameras, sensors
- Control systems
- Instrumentation systems
- Point-of-sale systems
- Banking systems

### Communication and control key features:

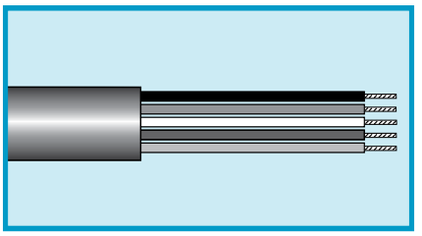
- 1 – 50 conductors, 1 – 50 pairs
- Wide range of insulation/ jacket materials:
  - PVC
  - Irradiated PVC
  - Plenum-rated PVC
  - Semirigid PVC
  - Rubber
  - Polyethylene
  - Polypropylene
  - Foam PP and PE
  - PTFE/FEP
  - LSZH
- Low-capacitance cables for improved transmission distances and signal integrity

### Flexible shielding options:

- Unshielded
- Overall foil shield
- Overall foil/braid
- Individual foil-shielded pairs
- Individual foil-shielded pairs with overall foil/braid

# Communication and Control Cable

## 300 V Unshielded, Multiconductor, LSZH



Alpha Wire's LSZH communication and control cable combines LSZH-rated insulation and jackets with the rugged performance you expect from Alpha. The specially formulated LSZH material minimizes the effects from smoke and harmful corrosive gases in the event of combustion. Low smoke means easier visibility in exiting the area and reduced danger of smoke inhalation, while low toxicity means no harm to people from halogenated gases.

**UL CM VW-1**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +75°C

### Materials

- Stranded tinned copper conductors
- LSZH insulation
- Slate LSZH jacket

### LSZH Properties

- LSZH Flammability: Passes IEC 60332-1
- LSZH Acid Gas Generation: Passes IEC 60754-1 and 60754-2
- LSZH Smoke Emission: Passes IEC 61034-2

**LSZH Unshielded Multiconductor**
**Conductor Color Coding: Chart D**

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1172L** | 2 | 0.161 | 4.09 | 0.028 | 0.71 |
| **1173L** | 3 | 0.169 | 4.29 | 0.028 | 0.71 |
| **1174L** | 4 | 0.189 | 4.80 | 0.028 | 0.71 |
| **1175L** | 5 | 0.201 | 5.11 | 0.028 | 0.71 |
| **1176L** | 6 | 0.209 | 5.31 | 0.030 | 0.76 |
| **1177L** | 7 | 0.209 | 5.31 | 0.030 | 0.76 |
| **1178L** | 8 | 0.220 | 5.59 | 0.030 | 0.76 |
| **1179L** | 9 | 0.249 | 6.32 | 0.032 | 0.81 |
| **1180L** | 10 | 0.260 | 6.60 | 0.035 | 0.88 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (0.32 mm)
Insulation thickness: 0.016 (0.40 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1895L** | 2 | 0.181 | 4.60 | 0.018 | 0.45 |
| **1896L** | 3 | 0.189 | 4.80 | 0.020 | 0.50 |
| **1896/4L** | 4 | 0.209 | 5.31 | 0.020 | 0.50 |
| **1896/5L** | 5 | 0.232 | 5.89 | 0.020 | 0.50 |
| **1896/6L** | 6 | 0.276 | 7.01 | 0.020 | 0.50 |



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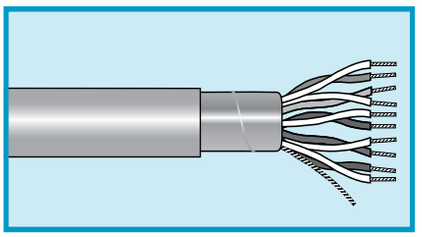
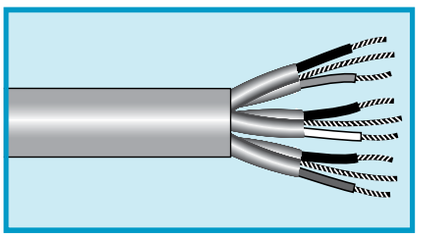
# Communication and Control Cable

## 300 V Foil Shielded, Multipair, LSZH





Alpha Wire's LSZH communication and control cable combines LSZH-rated insulation and jackets with the rugged performance you expect from Alpha. The specially formulated LSZH material minimizes the effects from smoke and harmful corrosive gases in the event of combustion. Low smoke means easier visibility in exiting the area and reduced danger of smoke inhalation, while low toxicity means no harm to people from halogenated gases.

**UL CM VW-1**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +75°C

### Materials

- Stranded tinned copper conductors
- LSZH insulation (Polypropylene insulation for individually foil shielded pairs)
- Aluminum/polyester shielding, with 25% overlap min.
  Foil facing inward
  Tinned copper drain wire sized the same as the conductors
- Slate LSZH jacket

### LSZH Properties

- LSZH Flammability: Passes IEC 60332-1
- LSZH Acid Gas Generation: Passes IEC 60754-1 and 60754-2
- LSZH Smoke Emission: Passes IEC 61034-2

### LSZH Overall Foil Shielded Multipair
### Conductor Color Coding: Chart A

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5471L** | 1 | 0.161 | 4.09 | 0.028 | 0.71 |
| **5472L** | 2 | 0.209 | 5.31 | 0.028 | 0.71 |
| **5473L** | 3 | 0.228 | 5.79 | 0.028 | 0.71 |
| **5474L** | 4 | 0.240 | 6.10 | 0.028 | 0.71 |
| **5475L** | 5 | 0.272 | 6.91 | 0.030 | 0.76 |
| **5476L** | 6 | 0.299 | 7.59 | 0.030 | 0.76 |
| **5477L** | 7 | 0.299 | 7.59 | 0.030 | 0.76 |
| **5478L** | 8 | 0.319 | 8.10 | 0.032 | 0.81 |
| **5479L** | 9 | 0.339 | 8.61 | 0.032 | 0.81 |
| **5480L** | 10 | 0.378 | 9.60 | 0.032 | 0.81 |

### LSZH Individually Foil-Shielded Pair
### Conductor Color Coding: Chart A

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2466L*†** | 2 | 0.161 | 4.09 | 0.014 | 0.35 |
| **6010L** | 3 | 0.299 | 7.59 | 0.047 | 1.19 |
| **2463L*††** | 4 | 0.242 | 6.15 | 0.020 | 0.50 |
| **6012L** | 6 | 0.386 | 9.80 | 0.040 | 1.01 |
| **6014L** | 9 | 0.441 | 11.20 | 0.040 | 1.01 |
| **6017L** | 12 | 0.492 | 12.50 | 0.040 | 1.01 |

*Conductor color coding: 1 Red-Black, 2 Green-White, White/Red-White/Black, 4 White/Green-White/Yellow.
†0.009 (0.23) insulation thickness.
††0.008 (0.20) insulation thickness.

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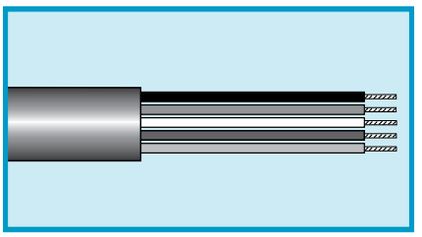
# Communication and Control

## 300 V Unshielded, Multiconductor, PVC, PVC



**UL AWM 2576 (150 V) VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded or solid tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1172C** | 2 | 0.164 | 4.17 | 0.032 | 0.81 |
| **1173C** | 3 | 0.172 | 4.37 | 0.032 | 0.81 |
| **1174C** | 4 | 0.185 | 4.70 | 0.032 | 0.81 |
| **1175C** | 5 | 0.200 | 5.08 | 0.032 | 0.81 |
| **1176C** | 6 | 0.215 | 5.46 | 0.032 | 0.81 |
| **1177C** | 7 | 0.215 | 5.46 | 0.032 | 0.81 |
| **1178C** | 8 | 0.230 | 5.84 | 0.032 | 0.81 |
| **1179C** | 9 | 0.246 | 6.25 | 0.032 | 0.81 |
| **1180C** | 10 | 0.264 | 6.71 | 0.032 | 0.81 |
| **1181C** | 12 | 0.272 | 6.91 | 0.032 | 0.81 |
| **1181/15C** | 15 | 0.294 | 7.47 | 0.032 | 0.81 |
| **1181/20C** | 20 | 0.326 | 8.28 | 0.032 | 0.81 |
| **1181/25C** | 25 | 0.364 | 9.25 | 0.032 | 0.81 |
| **1181/30C** | 30 | 0.385 | 9.78 | 0.032 | 0.81 |
| **1181/40C** | 40 | 0.429 | 10.90 | 0.032 | 0.81 |
| **1181/50C** | 50 | 0.478 | 12.14 | 0.035 | 0.89 |
| **1181/60C** | 60 | 0.520 | 13.21 | 0.035 | 0.89 |

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1793C** | 2 | 0.157 | 3.99 | 0.032 | 0.81 |



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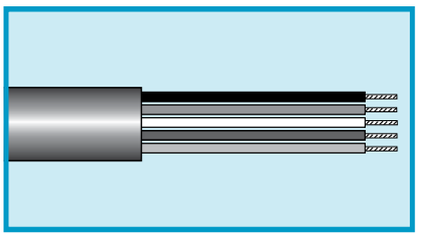
# Communication and Control

## 300 V Unshielded, Multiconductor, PVC, PVC



**UL AWM 2509 VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1895C** | 2 | 0.180 | 4.57 | 0.020 | 0.51 |
| **1896C** | 3 | 0.191 | 4.85 | 0.020 | 0.51 |
| **1896/4C** | 4 | 0.209 | 5.31 | 0.020 | 0.51 |
| **1896/5C** | 5 | 0.230 | 5.84 | 0.020 | 0.51 |
| **1896/6C** | 6 | 0.251 | 6.38 | 0.020 | 0.51 |
| **1896/7C** | 7 | 0.251 | 6.38 | 0.020 | 0.51 |
| **1896/8C** | 8 | 0.273 | 6.93 | 0.020 | 0.51 |
| **1896/9C** | 9 | 0.301 | 7.65 | 0.023 | 0.58 |
| **1896/10C** | 10 | 0.320 | 8.13 | 0.020 | 0.51 |
| **1896/12C** | 12 | 0.331 | 8.41 | 0.020 | 0.51 |
| **1896/15C** | 15 | 0.382 | 9.70 | 0.030 | 0.76 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1897C** | 2 | 0.198 | 5.03 | 0.020 | 0.51 |
| **1898C** | 3 | 0.210 | 5.33 | 0.020 | 0.51 |
| **1898/4C** | 4 | 0.231 | 5.87 | 0.020 | 0.51 |
| **1898/5C** | 5 | 0.254 | 6.45 | 0.020 | 0.51 |
| **1898/6C** | 6 | 0.278 | 7.06 | 0.020 | 0.51 |
| **1898/7C** | 7 | 0.278 | 7.06 | 0.020 | 0.51 |
| **1898/8C** | 8 | 0.313 | 7.95 | 0.025 | 0.64 |
| **1898/9C** | 9 | 0.337 | 8.56 | 0.025 | 0.64 |
| **1898/10C** | 10 | 0.366 | 9.30 | 0.025 | 0.64 |
| **1898/12C** | 12 | 0.378 | 9.60 | 0.025 | 0.64 |
| **1898/15C** | 15 | 0.423 | 10.74 | 0.030 | 0.76 |
| **1898/19C** | 19 | 0.455 | 11.56 | 0.030 | 0.76 |
| **1898/25C** | 25 | 0.544 | 13.82 | 0.035 | 0.89 |

**16 AWG (1.32 mm²)**

Stranding 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1899C** | 2 | 0.222 | 5.64 | 0.020 | 0.51 |
| **1899/3C** | 3 | 0.236 | 5.99 | 0.020 | 0.51 |
| **1899/4C** | 4 | 0.260 | 6.60 | 0.020 | 0.51 |

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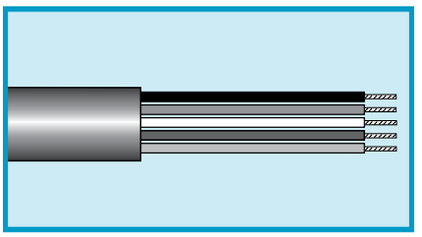
# Communication and Control

## 300 V Unshielded, Multiconductor, PVC, PVC



**UL CL2 VW-1**
**CSA AWM I/II A/B FT1**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CL2)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**14 AWG (2.09 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1891C** | 2 | 0.268 | 6.81 | 0.020 | 0.51 |
| **1891/3C** | 3 | 0.286 | 7.26 | 0.020 | 0.51 |

**12 AWG (3.31 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1892C** | 2 | 0.312 | 7.92 | 0.023 | 0.58 |
| **1892/3C** | 3 | 0.333 | 8.46 | 0.023 | 0.58 |



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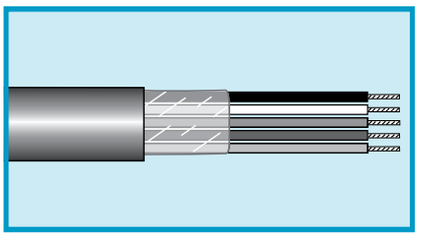
# Communication and Control

## 600 V Unshielded, Multiconductor, PVC, PVC



**UL AWM 2463 VW-1**

### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- Chart F (page 532)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**16 AWG (1.32 mm²)**

Stranding 19/0.0117 (19 x 0.29 mm)
Insulation Thickness 0.032 (0.81 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1064** | 4 | 0.395 | 10.03 | 0.047 | 1.19 |
| **1065** | 5 | 0.430 | 10.92 | 0.047 | 1.19 |
| **1067** | 7 | 0.468 | 11.89 | 0.047 | 1.19 |
| **1069** | 9 | 0.577 | 14.66 | 0.063 | 1.60 |
| **1072** | 12 | 0.640 | 16.26 | 0.063 | 1.60 |
| **1075** | 15 | 0.694 | 17.63 | 0.063 | 1.60 |
| **1079** | 19 | 0.749 | 19.02 | 0.065 | 1.65 |
| **1085** | 25 | 0.907 | 23.04 | 0.083 | 2.11 |

**14 AWG (2.08 mm²)**

Stranding (19 x 0.0147 (19 x 0.37 mm)
Insulation thickness: 0.047 (1.19 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1274** | 4 | 0.503 | 12.78 | 0.047 | 1.19 |
| **1275** | 5 | 0.584 | 14.83 | 0.063 | 1.60 |
| **1277** | 7 | 0.635 | 16.13 | 0.063 | 1.60 |
| **1279** | 9 | 0.744 | 18.90 | 0.065 | 1.60 |
| **1282** | 12 | 0.867 | 22.02 | 0.083 | 2.11 |

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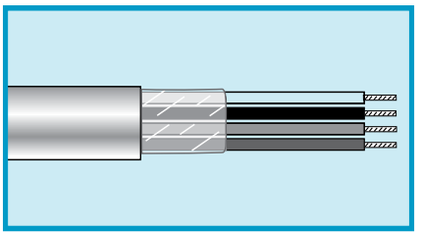
# Communication and Control

## 300 V Unshielded, Multiconductor, IRR PVC, PVC



**MIL-DTL-16878/1 (Type B)**
**UL AWM 2576 (150 V) VW-1**

### Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +80°C (AWM)

### Conductor Color Coding

- 1 White, 2 Black, 3 Red, 4 Green

### Materials

- Stranded tinned copper conductors
- Irradiated PVC insulation
- Clear polyester wrap
- White PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6622** | 2 | 0.155 | 3.94 | 0.032 | 0.81 |
| **6623** | 3 | 0.162 | 4.11 | 0.032 | 0.81 |
| **6624** | 4 | 0.173 | 4.39 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6632** | 2 | 0.167 | 4.24 | 0.032 | 0.81 |
| **6633** | 3 | 0.175 | 4.44 | 0.032 | 0.81 |
| **6634** | 4 | 0.188 | 4.78 | 0.032 | 0.81 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6642** | 2 | 0.183 | 4.65 | 0.032 | 0.81 |
| **6643** | 3 | 0.192 | 4.88 | 0.032 | 0.81 |
| **6644** | 4 | 0.207 | 5.26 | 0.032 | 0.81 |

**18 AWG (0.89 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6652** | 2 | 0.203 | 5.16 | 0.032 | 0.81 |
| **6653** | 3 | 0.214 | 5.44 | 0.032 | 0.81 |
| **6654** | 4 | 0.232 | 5.89 | 0.032 | 0.81 |

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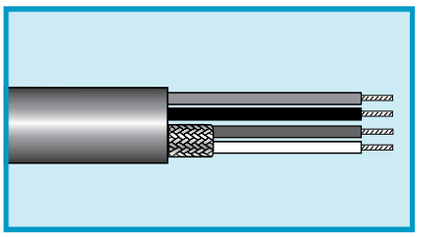
# Communication and Control

## 300 V Unshielded and Braid Shield, Multiconductor, PVC, PVC



**UL AWM 2785 VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60°C (AWM, CMG)

### Conductor Color Coding

See tables

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Tinned copper braid shield, 80% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)*
500 ft (152 m)*
1000 ft (305 m)

*Parts 1243, 1243/4, and 1243/5 only

### 22 AWG Composite Shielded and Unshielded, UL AWM 2785, UL CM, and CSA CMG

**22 AWG (0.35 mm²)**

Stranding 7/30 (7 x 0.25 mm)
Insulation Thickness 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Configuration | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Shielded | Unshielded |
| **1243** | 3 | 0.190 | 4.83 | 0.020 | 0.51 | 1 | 2 |
| **1243/4** | 4 | 0.185 x 0.285 | 4.70 x 7.24 | 0.020 | 0.51 | 2 | 2 |
| **1243/5** | 5 | 0.195 x 0.300 | 4.95 x 7.62 | 0.020 | 0.51 | 3 | 2 |

Conductor Color Coding
Shielded: 1 White, 2 Black, 3 Red
Unshielded: 1 Black, 2 Red

### 22 and 18 AWG Unshielded, UL CM and CSA CMG Only

| 22 AWG (0.35 mm²) | 18 AWG (0.81 mm²) |
|---|---|
| Stranding: 7/30 (7 x 0.25 mm)<br>Insulation thickness: 0.010 (0.25 mm) | 16/30 (16 x 0.25 mm)<br>0.018 (0.45 mm) |

| Part No. | Conductors | | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|
| | 22 AWG | 18 AWG | Inch | mm | Inch | mm |
| **1826C** | 4 | 2 | 0.241 | 6.12 | 0.025 | 0.63 |
| **1827C** | 5 | 2 | 0.247 | 6.27 | 0.028 | 0.71 |
| **1828C** | 6 | 2 | 0.261 | 6.63 | 0.028 | 0.71 |

Conductor Color Coding
22 AWG: Chart I (page 533)
18 AWG: Chart D (page 531)

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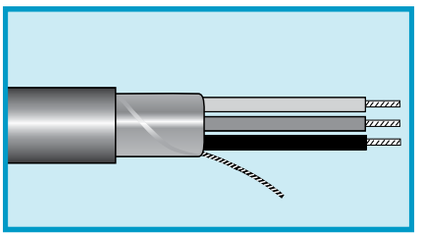
# Communication and Control

## 300 V Foil Shield, Multiconductor, PE, PVC



**UL AWM 2092, 2093, 2094 VW-1**
**UL CMG**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +75°C (CMG)
- -20°C to +60°C (AWM)

### Conductor Color Coding

- 1 Black, 2 Red, 3 Natural, 4 Green

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see table for sizes)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m), spool or box
1000 ft (305 m), spool or box

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **2400C** | 2 | 0.156 | 3.96 | 0.020 | 0.51 | 2092 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **2401C*** | 2 | 0.168 | 4.27 | 0.020 | 0.51 | 2092 |
| **2402C** | 2 | 0.168 | 4.27 | 0.020 | 0.51 | 2092 |
| **2403C** | 3 | 0.178 | 4.52 | 0.020 | 0.51 | 2093 |
| **2404C** | 4 | 0.194 | 4.93 | 0.020 | 0.51 | 2094 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.50 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **2411C*** | 2 | 0.184 | 4.67 | 0.020 | 0.51 | 2092 |
| **2412C** | 2 | 0.184 | 4.67 | 0.020 | 0.51 | 2092 |
| **2413C** | 3 | 0.195 | 4.95 | 0.020 | 0.51 | 2093 |
| **2414C** | 4 | 0.213 | 5.41 | 0.020 | 0.51 | 2094 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.50 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **2421C*** | 2 | 0.202 | 5.13 | 0.020 | 0.51 | 2092 |
| **2422C** | 2 | 0.202 | 5.13 | 0.020 | 0.51 | 2092 |
| **2423C** | 3 | 0.214 | 5.44 | 0.020 | 0.51 | 2093 |
| **2424C** | 4 | 0.235 | 5.97 | 0.020 | 0.51 | 2094 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)
18 AWG (0.81 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **2432C** | 2 | 0.226 | 5.74 | 0.020 | 0.51 | 2092 |
| **2433C** | 3 | 0.240 | 6.10 | 0.020 | 0.51 | 2093 |

*Color code: 1 black, 2 natural.



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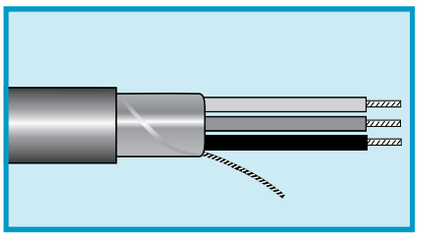
## 300 V Foil Shield, Multiconductor, PE, PVC



**UL CL2**
**CSA AWM I/II A/B FT4**

### Operating Temperature

- -20°C to +75°C (CL2)
- -20°C to +60°C (AWM)

### Conductor Color Coding

- 1 Black, 2 Red, 3 Natural, 4 Green

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see table for sizes)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m), spool or box
1000 ft (305 m), spool or box

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)
16 AWG (1.32 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **2442C** | 2 | 0.292 | 7.42 | 0.030 | 0.76 | CL2 |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)
14 AWG (2.08 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | UL |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **2444C** | 2 | 0.330 | 8.38 | 0.030 | 0.76 | CL2 |

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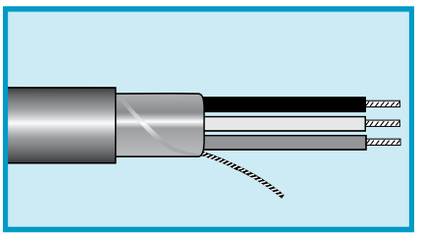
## 300 V Foil Shield, Multiconductor, PP, PE, PVC/PVC



**UL CM**
**VW-1**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- 1 White, 2 Black, 3 Red, 4 Green
- 1 Black, 2 Red, 3 White, 4 Green

### Materials

- Stranded tinned copper conductors (except 2460C)
- PP, PE, or PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  1243/3C: foil facing inward
  Stranded tinned copper drain wire (except 2460C)
- Slate PVC jacket
  2461C: slate or black

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### Polypropylene Insulation

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm) or solid
Insulation Thickness: 0.008 (0.20 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Configuration | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Shielded | Unshielded |
| **2460C** | 2 (solid) | 0.126 | 3.20 | 0.020 | 0.51 | 2 | 0 |
| **2461C** | 2 | 0.136 | 3.45 | 0.020 | 0.51 | 2 | 0 |

### Polyethylene Insulation

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation Thickness: 0.014 (0.36 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Configuration | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Shielded | Unshielded |
| **1243/3C** | 3 | 0.210 | 5.33 | 0.030 | 0.76 | 2 | 1 |
| **2464C** | 4 | 0.165 | 4.19 | 0.020 | 0.51 | 2 | 2 |

### PVC Insulation

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation Thickness: 0.015 (0.38 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | | Configuration | |
|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Shielded | Unshielded |
| **2465C** | 4 | 0.240 | 6.10 | 0.030 | 0.76 | 2 | 2 |



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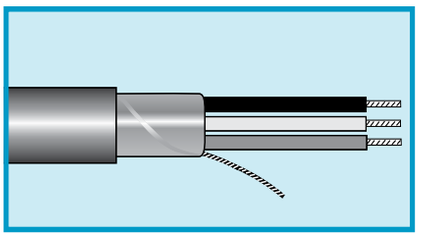
## 300 V Foil Shield, Multiconductor, PVC, PVC



**UL AWM 2576 (150 V) VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1212C** | 2 | 0.156 | 3.96 | 0.032 | 0.81 |
| **1213C** | 3 | 0.163 | 4.14 | 0.032 | 0.81 |
| **1214C** | 4 | 0.174 | 4.42 | 0.032 | 0.81 |
| **1215C** | 5 | 0.187 | 4.75 | 0.032 | 0.81 |
| **1216C** | 6 | 0.201 | 5.11 | 0.032 | 0.81 |
| **1217C** | 7 | 0.201 | 5.11 | 0.032 | 0.81 |
| **1218C** | 8 | 0.214 | 5.44 | 0.032 | 0.81 |
| **1219C** | 9 | 0.228 | 5.79 | 0.032 | 0.81 |
| **1219/10C** | 10 | 0.244 | 6.20 | 0.032 | 0.81 |
| **1219/12C** | 12 | 0.251 | 6.38 | 0.032 | 0.81 |
| **1219/15C** | 15 | 0.270 | 6.86 | 0.032 | 0.81 |
| **1219/20C** | 20 | 0.298 | 7.57 | 0.032 | 0.81 |
| **1219/25C** | 25 | 0.332 | 8.43 | 0.032 | 0.81 |
| **1219/37C** | 37 | 0.376 | 9.55 | 0.032 | 0.81 |
| **1219/40C** | 40 | 0.390 | 9.91 | 0.032 | 0.81 |
| **1219/50C** | 50 | 0.427 | 10.85 | 0.032 | 0.81 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1292C** | 2 | 0.168 | 4.27 | 0.032 | 0.81 |
| **1293C** | 3 | 0.176 | 4.47 | 0.032 | 0.81 |
| **1294C** | 4 | 0.189 | 4.80 | 0.032 | 0.81 |
| **1295C** | 5 | 0.204 | 5.18 | 0.032 | 0.81 |
| **1296C** | 6 | 0.219 | 5.56 | 0.032 | 0.81 |
| **1297C** | 7 | 0.219 | 5.56 | 0.032 | 0.81 |
| **1298C** | 8 | 0.234 | 5.94 | 0.032 | 0.81 |
| **1299C** | 9 | 0.250 | 6.35 | 0.032 | 0.81 |
| **1299/10C** | 10 | 0.268 | 6.81 | 0.032 | 0.81 |
| **1299/12C** | 12 | 0.276 | 7.01 | 0.032 | 0.81 |
| **1299/15C** | 15 | 0.298 | 7.57 | 0.032 | 0.81 |
| **1299/20C** | 20 | 0.330 | 8.38 | 0.032 | 0.81 |
| **1299/25C** | 25 | 0.368 | 9.35 | 0.032 | 0.81 |
| **1299/30C** | 30 | 0.389 | 9.88 | 0.032 | 0.81 |
| **1299/37C** | 37 | 0.418 | 10.62 | 0.032 | 0.81 |
| **1299/40C** | 40 | 0.433 | 11.00 | 0.032 | 0.81 |
| **1299/50C** | 50 | 0.482 | 12.24 | 0.035 | 0.89 |

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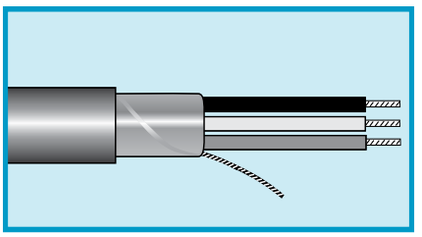
## 300 V Foil Shield, Multiconductor, SR-PVC, PVC



**UL AWM 2464 VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart F (page 532)

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6300/3*** | 3 | 0.163 | 4.14 | 0.032 | 0.81 |
| **6300/4*** | 4 | 0.174 | 5.44 | 0.032 | 0.81 |
| **6305** | 5 | 0.187 | 4.75 | 0.032 | 0.81 |
| **6306*** | 6 | 0.201 | 5.11 | 0.032 | 0.81 |
| **6300/8*** | 8 | 0.214 | 5.44 | 0.032 | 0.81 |
| **6300/10*** | 10 | 0.244 | 6.20 | 0.032 | 0.81 |
| **6307** | 15 | 0.270 | 6.86 | 0.032 | 0.81 |
| **6308** | 20 | 0.298 | 7.57 | 0.032 | 0.81 |
| **6309** | 25 | 0.332 | 8.43 | 0.032 | 0.81 |
| **6310** | 30 | 0.366 | 9.30 | 0.040 | 1.02 |
| **6311** | 40 | 0.406 | 10.31 | 0.040 | 1.02 |
| **6312** | 50 | 0.453 | 11.51 | 0.045 | 1.14 |

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190 pF/m)

*Color coding: 1 Black, 2 White, 3 Red, 4 Green, 5 Brown, 6 Blue, 7 Orange, 8 Yellow, 9 Violet, 10 Slate.



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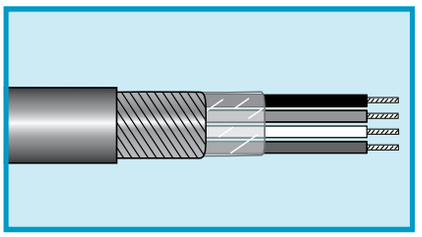
## 300 V Spiral Shield, Multiconductor, PVC, PVC



**AWM 2095**
**AWM 1108 (Single-conductor cables)**

### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green, 5 Yellow, 6 Blue

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap (multiconductor only)
- Bare copper spiral shield, 95% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2254/1** | 1 | 0.112 | 2.84 | 0.020 | 0.51 |
| **2254** | 2 | 0.177 | 4.50 | 0.020 | 0.51 |
| **2254/3** | 3 | 0.187 | 4.75 | 0.020 | 0.51 |
| **2254/4** | 4 | 0.206 | 5.23 | 0.020 | 0.51 |
| **2254/6** | 6 | 0.243 | 6.17 | 0.020 | 0.51 |

**20 AWG (0.56 mm²)**

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2256/1** | 1 | 0.119 | 3.02 | 0.020 | 0.51 |
| **2256** | 2 | 0.191 | 4.85 | 0.020 | 0.51 |
| **2256/3** | 3 | 0.202 | 5.13 | 0.020 | 0.51 |
| **2256/4** | 4 | 0.223 | 5.66 | 0.020 | 0.51 |
| **2256/6** | 6 | 0.264 | 6.71 | 0.020 | 0.51 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2258/1** | 1 | 0.129 | 3.28 | 0.020 | 0.51 |
| **2258** | 2 | 0.214 | 5.44 | 0.020 | 0.51 |
| **2258/3** | 3 | 0.226 | 5.74 | 0.020 | 0.51 |
| **2258/4** | 4 | 0.247 | 6.27 | 0.020 | 0.51 |

**16 AWG (1.32 mm²)**

Stranding: 26/30 (26 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2260** | 2 | 0.240 | 6.10 | 0.020 | 0.51 |
| **2260/3** | 3 | 0.254 | 6.45 | 0.020 | 0.51 |

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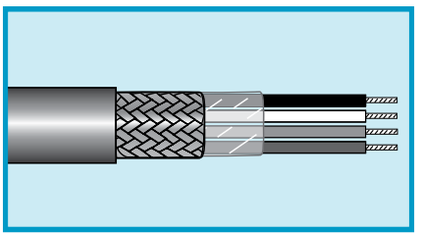
## 600 V Braid Shield, Multiconductor, PVC, PVC



### MIL-DTL-16878/1 (Type B)

#### Operating Temperature

- -55°C to +105°C

#### Conductor Color Coding

- Chart F (page 532)

#### Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

#### Availability

100 ft (30.5 m)
1000 ft (305 m)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3302** | 2 | 0.119 | 3.02 | 0.012 | 0.30 |
| **3303** | 3 | 0.124 | 3.15 | 0.012 | 0.30 |
| **3304** | 4 | 0.134 | 3.40 | 0.012 | 0.30 |
| **3306** | 6 | 0.161 | 4.09 | 0.015 | 0.38 |
| **3308** | 8 | 0.171 | 4.34 | 0.015 | 0.38 |
| **3310** | 10 | 0.201 | 5.11 | 0.018 | 0.46 |
| **3312** | 12 | 0.206 | 5.23 | 0.018 | 0.46 |
| **3315** | 15 | 0.236 | 5.99 | 0.020 | 0.51 |
| **3320** | 20 | 0.261 | 6.63 | 0.022 | 0.56 |

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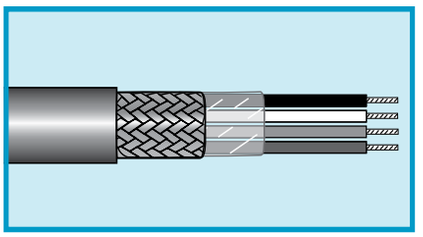
# Communication and Control

## 600 V Braid Shield, Multiconductor, PVC/Nylon, PVC



**MIL-DTL-16878/17 (Type B/N)**

### Operating Temperature

- -55°C to +105°C

### Conductor Color Coding

- 1 White, 2 Black, 3 Red, 4 Green (unless otherwise noted)

### Materials

- Stranded tinned copper conductors
- PVC/nylon insulation
- Clear polyester wrap (multiconductor only)
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3200** | 1 | 0.087 | 2.21 | 0.010 | 0.25 |
| **3201** | 2 | 0.143 | 3.63 | 0.014 | 0.36 |
| **3202** | 3 | 0.150 | 3.81 | 0.014 | 0.36 |
| **3203** | 4 | 0.166 | 4.22 | 0.016 | 0.41 |

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3210** | 1 | 0.093 | 2.36 | 0.010 | 0.25 |
| **3211** | 2 | 0.159 | 4.04 | 0.016 | 0.41 |
| **3212** | 3 | 0.167 | 4.24 | 0.016 | 0.41 |
| **3213** | 4 | 0.182 | 4.62 | 0.017 | 0.43 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3220** | 1 | 0.100 | 2.54 | 0.010 | 0.25 |
| **3221** | 2 | 0.173 | 4.39 | 0.016 | 0.41 |
| **3222** | 3 | 0.184 | 4.67 | 0.017 | 0.43 |
| **3223** | 4 | 0.203 | 5.16 | 0.019 | 0.49 |
| **3335*** | 5 | 0.228 | 5.79 | 0.020 | 0.51 |
| **3336*** | 6 | 0.246 | 6.25 | 0.020 | 0.64 |
| **3337*** | 8 | 0.274 | 6.96 | 0.025 | 0.64 |

*Color code chart F.

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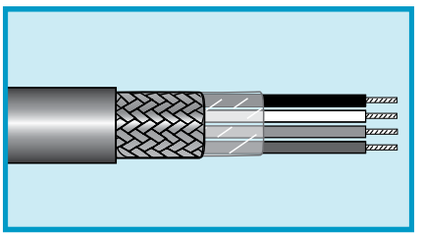
## 600 V Braid Shield, Multipair, PVC/Nylon, PVC



**MIL-DTL-16878/17 (Type B/N)**

### Operating Temperature

- -55°C to +105°C

### Conductor Color Coding

- 1 White, 2 Black, 3 Red, 4 Green (unless otherwise noted)

### Materials

- Stranded tinned copper conductors
- PVC/nylon insulation
- Clear polyester wrap (multiconductor only)
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**20 AWG (0.61 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3230** | 1 | 0.108 | 2.74 | 0.010 | 0.25 |
| **3231** | 2 | 0.195 | 4.95 | 0.019 | 0.49 |
| **3232** | 3 | 0.205 | 5.21 | 0.019 | 0.49 |
| **3233** | 4 | 0.227 | 5.77 | 0.021 | 0.53 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3240** | 1 | 0.122 | 3.10 | 0.012 | 0.30 |
| **3241** | 2 | 0.219 | 5.56 | 0.021 | 0.53 |
| **3242** | 3 | 0.233 | 5.92 | 0.022 | 0.56 |
| **3243** | 4 | 0.261 | 6.63 | 0.023 | 0.58 |

**16 AWG (1.23 mm²)**

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.010 (0.25 mm) PVC/0.003 (0.08 mm) nylon

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3245** | 1 | 0.136 | 0.136 | 0.016 | 0.41 |
| **3246** | 2 | 0.241 | 0.241 | 0.023 | 0.58 |
| **3247** | 3 | 0.254 | 0.254 | 0.023 | 0.58 |
| **3248** | 4 | 0.279 | 0.279 | 0.025 | 0.64 |

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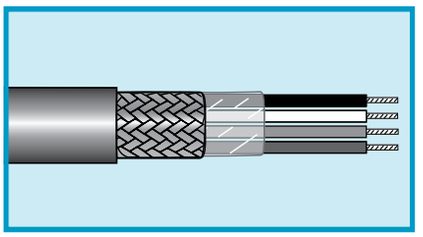
# Communication and Control

## 300 V Braid Shield, Multiconductor, PVC, PVC



**UL AWM 2095 VW-1**
**UL AWM 1108**
**(Single-Conductor Cables)**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded or solid tinned copper conductors
- PVC insulation
- Clear polyester wrap (multiconductor only)
- Bare copper braid shield, 75% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1775C** | 2 | 0.195 | 4.95 | 0.020 | 0.51 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1735** | 1 | 0.124 | 3.15 | 0.020 | 0.51 |
| **1736C** | 2 | 0.189 | 4.80 | 0.020 | 0.51 |
| **1737C** | 3 | 0.199 | 5.05 | 0.020 | 0.51 |
| **1738C** | 4 | 0.215 | 5.46 | 0.020 | 0.51 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1741C** | 2 | 0.205 | 5.21 | 0.020 | 0.51 |
| **1742C** | 3 | 0.216 | 5.49 | 0.020 | 0.51 |
| **1743C** | 4 | 0.234 | 5.94 | 0.020 | 0.51 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1745** | 1 | 0.141 | 3.58 | 0.020 | 0.51 |
| **1746C** | 2 | 0.223 | 5.66 | 0.020 | 0.51 |
| **1747C** | 3 | 0.235 | 5.97 | 0.020 | 0.51 |
| **1747/4C** | 4 | 0.256 | 6.50 | 0.020 | 0.51 |

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1748C** | 2 | 0.247 | 6.27 | 0.020 | 0.51 |
| **1749C** | 3 | 0.261 | 6.63 | 0.020 | 0.51 |

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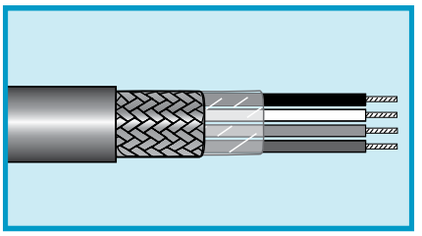
# Communication and Control

## 450 V Braid Shield, Multiconductor, PVC, PVC



### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap
- Bare copper braid shield, 75% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**14 AWG (2.08 mm²)**

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1750** | 2 | 0.299 | 7.59 | 0.020 | 0.51 |
| **1751** | 3 | 0.317 | 8.05 | 0.020 | 0.51 |

**12 AWG (3.29 mm²)**

Stranding: 65/30 (65 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1760** | 2 | 0.337 | 8.56 | 0.020 | 0.51 |
| **1761** | 3 | 0.358 | 9.09 | 0.020 | 0.51 |



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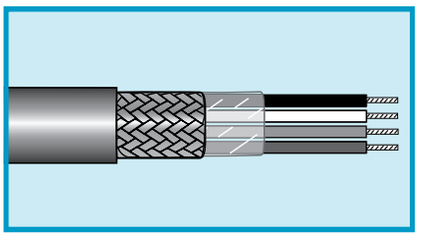
# Communication and Control

## 600 V Braid Shield, Multiconductor, IRR PVC, PVC



**MIL-DTL-16878/1 (Type B)**

### Operating Temperature

- -55°C to +105°C

### Conductor Color Coding

- Chart G (page 532)

### Materials

- Stranded tinned copper conductors
- Irradiated PVC insulation
- Clear polyester wrap
- Tinned copper braid shield, 90% coverage
- White PVC jacket

### Availability

1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **7622** | 2 | 0.163 | 4.14 | 0.025 | 0.64 |
| **7623** | 3 | 0.170 | 4.32 | 0.025 | 0.64 |
| **7624** | 4 | 0.181 | 4.60 | 0.025 | 0.64 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **7631** | 1 | 0.122 | 3.10 | 0.025 | 0.64 |
| **7632** | 2 | 0.175 | 4.45 | 0.025 | 0.64 |
| **7633** | 3 | 0.183 | 4.65 | 0.025 | 0.64 |
| **7634** | 4 | 0.196 | 4.98 | 0.025 | 0.64 |

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **7661** | 1 | 0.130 | 3.30 | 0.025 | 0.64 |
| **7662** | 2 | 0.191 | 4.85 | 0.025 | 0.64 |
| **7663** | 3 | 0.200 | 5.08 | 0.025 | 0.64 |
| **7664** | 4 | 0.215 | 5.46 | 0.025 | 0.64 |

**18 AWG (0.89 mm²)**

Stranding: 7/26 (7 x 0.40 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **7671** | 1 | 0.140 | 3.56 | 0.025 | 0.64 |
| **7672** | 2 | 0.211 | 5.35 | 0.025 | 0.64 |
| **7673** | 3 | 0.222 | 5.64 | 0.025 | 0.64 |
| **7674** | 4 | 0.240 | 6.09 | 0.025 | 0.64 |

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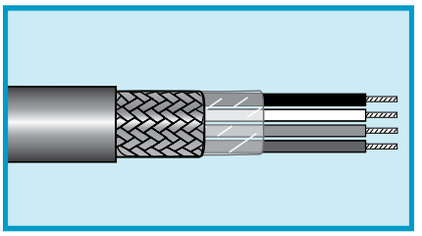
## 1000 V Braid Shield, Multiconductor, PVC, PVC



**MIL-DTL-16878/2 (Type C)**

### Operating Temperature

- -55°C to +105°C

### Conductor Color Coding

- Chart F (page 532)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Clear polyester wrap
- Tinned copper braid shield, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3405** | 5 | 0.303 | 7.70 | 0.025 | 0.64 |
| **3408** | 8 | 0.364 | 9.25 | 0.030 | 0.76 |
| **3410** | 10 | 0.429 | 10.90 | 0.035 | 0.89 |
| **3412** | 12 | 0.442 | 11.23 | 0.035 | 0.89 |
| **3415** | 15 | 0.488 | 12.40 | 0.040 | 1.02 |
| **3420** | 20 | 0.550 | 13.97 | 0.045 | 1.14 |
| **3430** | 30 | 0.667 | 16.94 | 0.055 | 1.40 |

**16 AWG (1.23 mm²)**

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.018 (0.45 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3444** | 4 | 0.316 | 8.03 | 0.031 | 0.79 |
| **3446** | 6 | 0.376 | 9.55 | 0.034 | 0.86 |
| **3450** | 10 | 0.487 | 12.37 | 0.044 | 1.12 |
| **3452** | 12 | 0.509 | 12.93 | 0.048 | 1.22 |

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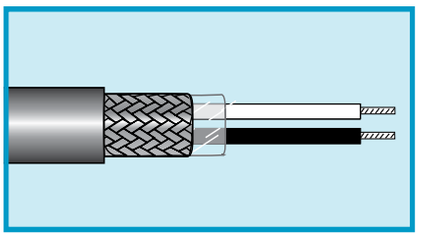
# Communication and Control

## Braid or Spiral Shield, Multiconductor, PE, PVC Microphone Cable



### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- 1-White, 2-Black

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Clear polyester wrap (multiconductor only)
- Braided tinned copper or spiral wrapped tinned copper shield, 90% coverage (85% for part no. 1712)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**1-Conductor Cable for High-Impedance Microphones**

| Part No. | Voltage Rating | Wire Size | | Stranding | | Nominal Diameter | | Shield | Jacket Thickness | | Insulation Thickness | | Capacitance | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | | Inch | mm | Inch | mm | pF/ft | pF/m |
| **1706*** | 4000 | 20 | 0.52 | 26/34 | 26 x 0.16 | 0.182 | 4.62 | Braid | 0.030 | 0.76 | 0.031 | 0.79 | 38 | 125 |
| **1703** | 3500 | 24 | 0.20 | 10/34 | 10 x 0.16 | 0.146 | 3.71 | Braid | 0.030 | 0.76 | 0.020 | 0.50 | 36 | 118 |
| **1702**** | 1000 | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.101 | 2.57 | Spiral | 0.020 | 0.51 | 0.016 | 0.41 | 35 | 115 |
| **1705** | 1000 | 24 | 0.20 | 10/34 | 10 x 0.16 | 0.106 | 2.69 | Spiral | 0.020 | 0.51 | 0.016 | 0.41 | 41 | 135 |

*UL AWM 1150, 300 V.
**1702 has 3 strands of tinned copper and 4 strands of tinned Copperweld.

**2-Conductor Cable for Low-Impedance Microphones**

| Part No. | Voltage Rating | Wire Size | | Stranding | | Nominal Diameter | | Shield | Jacket Thickness | | Insulation Thickness | | Capacitance* | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | | Inch | mm | Inch | mm | pF/ft | pF/m |
| **1709** | 1000 | 24 | 0.20 | 10/34 | 10 x 0.16 | 0.185 | 4.70 | Spiral | 0.030 | 0.76 | 0.016 | 0.41 | 32 | 105 |
| **1710** | 1000 | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.239 | 6.07 | Braid | 0.025 | 0.64 | 0.025 | 0.63 | 30 | 98 |
| **1712** | 600 | 20 | 0.52 | 26/34 | 26 x 0.16 | 0.221 | 5.61 | Braid | 0.030 | 0.76 | 0.015 | 0.38 | 44 | 144 |

*Capacitance between one conductor and remaining conductors connected to shield.

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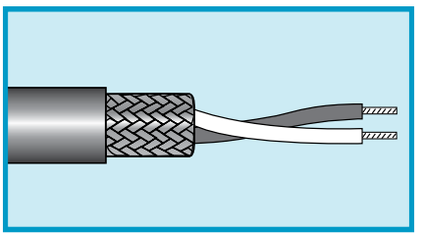
# Communication and Control

## 600 V Braid Shield, Multiconductor, PE, PVC Audio Cable



### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- 1771: White, blue
  Black, red, or orange jacket
- 1772: White, blue, white, blue
  Black, brown, slate, or
  yellow jacket

### Materials

- Bare copper conductors
- Polyethylene insulation
- Tinned copper braid shield,
  95% coverage
- PVC jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Conductors | Wire Size | | Stranding | | Nominal Diameter | | Shield | Jacket Thickness | | Insulation Thickness | | Capacitance | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AWG | mm² | AWG | mm | Inch | mm | | Inch | mm | Inch | mm | pF/ft | pF/m |
| **1771** | 2 | 23 | 0.29 | 60/40 | 60 x 0.08 | 0.243 | 6.17 | Braid | 0.040 | 1.01 | 0.020 | 0.51 | 17.9 | 58.7 |
| **1772** | 4 | 25 | 0.20 | 40/40 | 40 x 0.08 | 0.239 | 6.07 | Braid | 0.044 | 1.11 | 0.014 | 0.35 | 18 | 69.1 |

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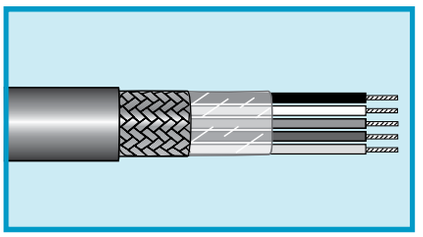
# Communication and Control

## 600 V Multiconductor, PE, PVC
## Braid Shield



### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Chart H (page 533)

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Clear polyester wrap
- Braided tinned copper shield, 85% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**20 AWG (0.52 mm²)**

Stranding: 26/34 (26 x 0.16 mm)
Insulation thickness: 0.015 (0.38 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1712** | 2 | 0.221 | 5.61 | 0.030 | 0.76 |
| **1713** | 3 | 0.248 | 6.30 | 0.035 | 0.88 |
| **1715** | 4 | 0.266 | 6.76 | 0.035 | 0.88 |
| **1716** | 5 | 0.285 | 7.24 | 0.035 | 0.88 |
| **1717** | 6 | 0.306 | 7.77 | 0.035 | 0.88 |
| **1719** | 8 | 0.327 | 8.31 | 0.035 | 0.88 |
| **1721** | 10 | 0.373 | 9.47 | 0.035 | 0.88 |
| **1723** | 12 | 0.384 | 9.75 | 0.035 | 0.88 |
| **1726** | 15 | 0.421 | 10.69 | 0.035 | 0.88 |
| **1728** | 20 | 0.462 | 11.73 | 0.035 | 0.88 |

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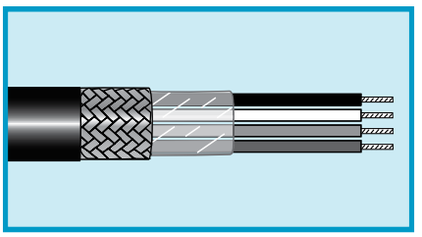
## 600 V Multiconductor, Rubber, Polychloroprene Braid Shield



### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Chart H (page 533)

### Materials

- Stranded tinned copper conductors
- EPDM rubber insulation
- Clear polyester wrap
- Tinned copper braid shield, 85% coverage
- Black polychloroprene jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**18 AWG (0.82 mm²)**

Stranding: 41/34 (41 x 0.16 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1450** | 2 | 0.298 | 7.57 | 0.045 | 1.14 |
| **1454** | 6 | 0.392 | 9.96 | 0.045 | 1.14 |

**16AWG (1.31 mm²)**

Stranding: 65/34 (65 x 0.16 mm)
Insulation thickness: 0.026 (0.65 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1450/16** | 2 | 0.327 | 8.31 | 0.036 | 0.91 |
| **1451/16** | 3 | 0.350 | 8.89 | 0.037 | 0.94 |

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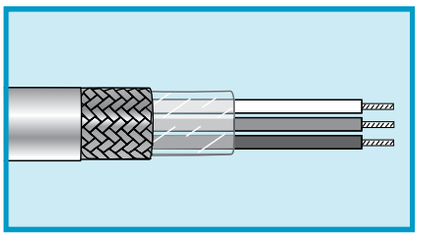
# Communication and Control

## 600 V Multiconductor, PTFE, FEP
## Braid Shield



**MIL-DTL-16878/4 (Type E)**
**NEMA HP3-EXBEE**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Chart G (page 532)

### Materials

- Stranded silver-plated copper conductors
- PTFE insulation
- Clear polyester wrap
- Silver-plated copper braid shield, 90% coverage
- White FEP jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)*
*May contain multiple lengths

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2831** | 1 | 0.087 | 2.21 | 0.010 | 0.25 |
| **2831/2** | 2 | 0.132 | 3.35 | 0.010 | 0.25 |
| **2831/3** | 3 | 0.139 | 3.53 | 0.010 | 0.25 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2834** | 1 | 0.092 | 2.34 | 0.010 | 0.25 |
| **2834/2** | 2 | 0.142 | 3.61 | 0.010 | 0.25 |
| **2834/3** | 3 | 0.154 | 3.91 | 0.012 | 0.30 |

**20 AWG (0.62 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2837/2** | 2 | 0.162 | 4.11 | 0.012 | 0.30 |
| **2837/3** | 3 | 0.171 | 4.34 | 0.012 | 0.30 |

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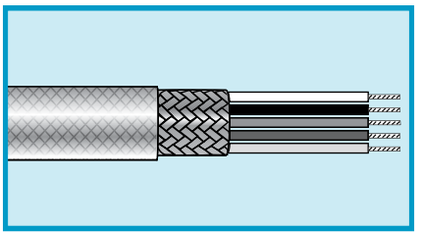
## 600 V Multiconductor, TFE, Fiberglass Braid Shield



**MIL-DTL-16878/4 (Type E)**
**NEMA HP3-EXBEE**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Chart G (page 532)

### Materials

- Stranded silver-plated copper conductors
- TFE insulation
- Silver-plated copper braid shield, 90% coverage
- White PTFE-impregnated fiberglass jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)*
*May contain multiple lengths

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2811** | 1 | 0.100 | 2.54 | 0.012 | 0.30 |
| **2811/2** | 2 | 0.145 | 3.68 | 0.012 | 0.30 |
| **2811/3** | 3 | 0.152 | 3.86 | 0.012 | 0.30 |
| **2811/4** | 4 | 0.164 | 4.17 | 0.012 | 0.30 |
| **2811/5** | 5 | 0.177 | 4.50 | 0.012 | 0.30 |
| **2811/7** | 7 | 0.191 | 4.85 | 0.012 | 0.30 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2814/2** | 2 | 0.155 | 3.94 | 0.012 | 0.30 |
| **2814/4** | 4 | 0.176 | 4.47 | 0.012 | 0.30 |
| **2814/6** | 6 | 0.206 | 5.23 | 0.012 | 0.30 |

**20 AWG (0.62 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2817/2** | 2 | 0.171 | 4.34 | 0.012 | 0.30 |
| **2817/3** | 3 | 0.180 | 4.57 | 0.012 | 0.30 |
| **2817/4** | 4 | 0.195 | 4.95 | 0.012 | 0.30 |
| **2817/5** | 5 | 0.212 | 5.38 | 0.012 | 0.30 |
| **2817/6** | 6 | 0.230 | 5.84 | 0.012 | 0.30 |

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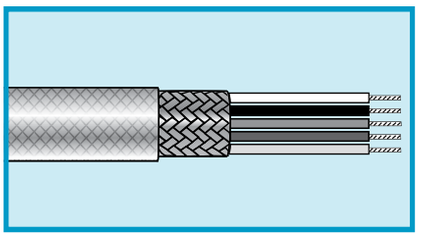
# Communication and Control

## 600 V Multiconductor, TFE, Fiberglass Braid Shield



**MIL-DTL-16878/4 (Type E)**
**NEMA HP3**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Chart G (page 532)

### Materials

- Stranded silver-plated copper conductors
- TFE insulation
- Silver-plated copper braid shield, 90% coverage
- White PTFE-impregnated fiberglass jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)*
*May contain multiple lengths

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2819** | 1 | 0.125 | 3.18 | 0.012 | 0.30 |
| **2819/2** | 2 | 0.195 | 4.95 | 0.012 | 0.30 |
| **2819/3** | 3 | 0.206 | 5.23 | 0.012 | 0.30 |
| **2819/4** | 4 | 0.224 | 5.69 | 0.012 | 0.30 |
| **2819/5** | 5 | 0.245 | 6.22 | 0.012 | 0.30 |

**16 AWG (1.32 mm²)**

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.012 (0.30 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2820** | 1 | 0.135 | 3.43 | 0.012 | 0.30 |
| **2820/2** | 2 | 0.215 | 5.46 | 0.012 | 0.30 |
| **2820/3** | 3 | 0.228 | 5.79 | 0.012 | 0.30 |
| **2820/4** | 4 | 0.249 | 6.32 | 0.012 | 0.30 |

**14 AWG (1.23 mm²)**

Stranding: 19/27 (19 x 0.36 mm)
Insulation thickness: 0.012 (0.30 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2804/2** | 1 | 0.245 | 6.22 | 0.012 | 0.30 |
| **2804/3** | 2 | 0.260 | 6.60 | 0.012 | 0.30 |

**12 AWG (3.08 mm²)**

Stranding: 19/25 (19 x 0.46 mm)
Insulation thickness: 0.012 (0.30 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2803/2** | 2 | 0.283 | 7.19 | 0.012 | 0.30 |

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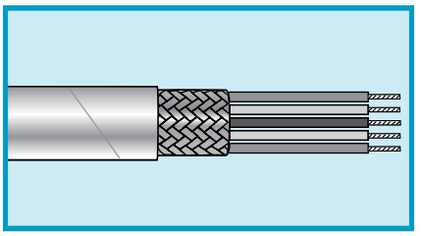
# Communication and Control

## 600 V Multiconductor, PTFE, PTFE Tape Braid Shield



**MIL-DTL-16878/4 (Type E)**
**NEMA HP3-EXBEE**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Chart G (page 532)

### Materials

- Stranded silver-plated copper conductors
- PTFE insulation
- Silver-plated copper braid shield, 90% coverage
- White PTFE tape jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)*
*May contain multiple lengths

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2821** | 1 | 0.087 | 2.21 | 0.010 | 0.25 |
| **2821/2** | 2 | 0.136 | 3.45 | 0.012 | 0.30 |
| **2821/3** | 3 | 0.143 | 3.63 | 0.012 | 0.30 |
| **2821/4** | 4 | 0.155 | 3.94 | 0.012 | 0.30 |
| **2821/5** | 5 | 0.168 | 4.27 | 0.012 | 0.30 |
| **2821/6** | 6 | 0.182 | 4.62 | 0.012 | 0.30 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2824** | 1 | 0.092 | 2.34 | 0.010 | 0.25 |
| **2824/2** | 2 | 0.146 | 3.71 | 0.012 | 0.30 |
| **2824/3** | 3 | 0.154 | 3.91 | 0.012 | 0.30 |
| **2824/4** | 4 | 0.167 | 4.24 | 0.012 | 0.30 |
| **2824/5** | 5 | 0.182 | 4.62 | 0.012 | 0.30 |
| **2824/6** | 6 | 0.193 | 4.90 | 0.012 | 0.30 |

**20 AWG (0.62 mm²)**

Stranding: 19/32 (19 x 0.20 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2827** | 1 | 0.100 | 2.54 | 0.010 | 0.25 |
| **2827/2** | 2 | 0.158 | 4.01 | 0.012 | 0.30 |
| **2827/3** | 3 | 0.171 | 4.34 | 0.012 | 0.30 |
| **2827/4** | 4 | 0.186 | 4.72 | 0.012 | 0.30 |
| **2827/5** | 5 | 0.203 | 5.16 | 0.012 | 0.30 |
| **2827/6** | 6 | 0.221 | 5.61 | 0.012 | 0.30 |

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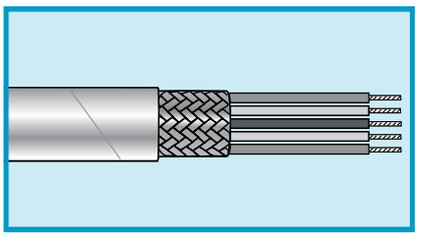
# Communication and Control

## 600 V Multiconductor, PTFE, PTFE Tape Braid Shield



**MIL-DTL-16878/4 (Type E)**
**NEMA HP3-EXBEE**

### Operating Temperature

- -55°C to +200°C

### Conductor Color Coding

- Chart G (page 532)

### Materials

- Stranded silver-plated copper conductors
- PTFE insulation
- Silver-plated copper braid shield, 90% coverage
- White PTFE tape jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)*
*May contain multiple lengths

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2829/2** | 2 | 0.186 | 4.72 | 0.012 | 0.30 |
| **2829/3** | 3 | 0.197 | 5.00 | 0.012 | 0.30 |
| **2829/4** | 4 | 0.215 | 5.46 | 0.012 | 0.30 |

**16 AWG (1.23 mm²)**

Stranding: 19/29 (19 x 0.29 mm)
Insulation thickness: 0.012 (0.30 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2826** | 1 | 0.122 | 3.10 | 0.010 | 0.25 |
| **2826/2** | 2 | 0.206 | 5.23 | 0.012 | 0.30 |
| **2826/3** | 3 | 0.219 | 5.56 | 0.012 | 0.30 |
| **2826/4** | 4 | 0.240 | 6.10 | 0.012 | 0.30 |

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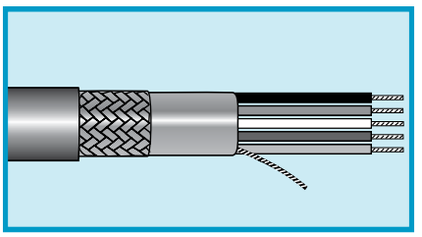
# Communication and Control

## 300 V Multiconductor, SR-PVC, PVC Foil/Braid Shield



**UL AWM 2464 VW-1**
**UL CL2**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CL2)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart D (page 531)

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester/aluminum foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to the conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**28 AWG (0.08 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3463*** | 3 | 0.171 | 4.34 | 0.035 | 0.89 |
| **3464C** | 4 | 0.181 | 4.60 | 0.035 | 0.89 |
| **3465C** | 5 | 0.191 | 4.85 | 0.035 | 0.89 |
| **3466C** | 6 | 0.202 | 5.13 | 0.035 | 0.89 |
| **3467C** | 7 | 0.202 | 5.13 | 0.035 | 0.89 |
| **3468C** | 8 | 0.212 | 5.38 | 0.035 | 0.89 |
| **3469C** | 9 | 0.223 | 5.66 | 0.035 | 0.89 |
| **3470C** | 10 | 0.236 | 5.99 | 0.035 | 0.89 |
| **3470/15C** | 15 | 0.267 | 6.78 | 0.035 | 0.89 |
| **3470/25C** | 25 | 0.312 | 7.92 | 0.035 | 0.89 |
| **3470/37C** | 37 | 0.347 | 8.81 | 0.035 | 0.89 |
| **3470/50C** | 50 | 0.397 | 10.08 | 0.035 | 0.89 |

*UL AWM 2464/CSA CMG only.



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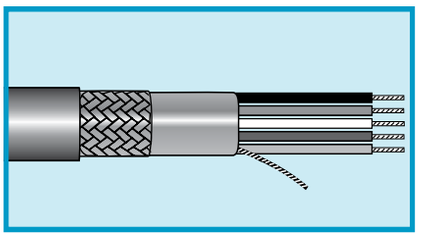
# Low Capacitance Data Cable

## 300 V Multiconductor, FPP, PVC Foil/Braid Shield



**UL AWM 2919 (30 V) VW-1**
**UL CL2**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CL2)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart D (page 531) for 3-conductor to 9-conductor cables
- Chart F (page 532) for 25-conductor cables

### Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Foil + braid shield
  Aluminum/polyester/aluminum foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid shield, 65% coverage
- Slate PVC jacket

### Availability

1000 ft (305 m)

**28 AWG (0.08 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.013 (0.33 mm)

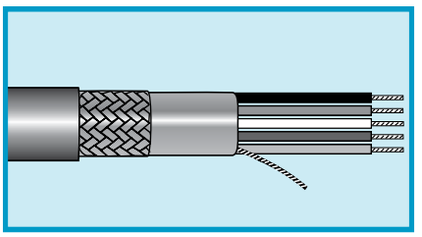
| Part No.* | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3483** | 3 | 0.184 | 4.67 | 0.035 | 0.89 |
| **3484C** | 4 | 0.195 | 4.95 | 0.035 | 0.89 |
| **3488C** | 8 | 0.232 | 5.89 | 0.035 | 0.89 |
| **3489C** | 9 | 0.245 | 6.22 | 0.035 | 0.89 |
| **3490/25C** | 25 | 0.348 | 8.84 | 0.035 | 0.89 |

Mutual capacitance: 12 pF/ft (39.4 pF/m)
Ground capacitance: 20 pF/ft (65.6 pF/m)

*C suffix part no. are CL2 approved.

# Communication and Control

## 300 V Multiconductor, SR-PVC, PVC Overall Foil/Braid Shield



**UL AWM 2464 VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart F (page 532) for 15-conductor through 50-condcutor cables
- See table below for 3-conductor through 10-conductor cables

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire, 24 AWG (0.22 mm²), 7/32 (7 x 0.22 mm)
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6327** | 3 | 0.185 | 4.70 | 0.032 | 0.81 |
| **6328** | 4 | 0.196 | 4.98 | 0.032 | 0.81 |
| **6329** | 5 | 0.209 | 5.31 | 0.032 | 0.81 |
| **6330** | 6 | 0.223 | 5.66 | 0.032 | 0.81 |
| **6331** | 7 | 0.223 | 5.66 | 0.032 | 0.81 |
| **6332** | 8 | 0.236 | 5.99 | 0.032 | 0.81 |
| **6333** | 9 | 0.250 | 6.35 | 0.032 | 0.81 |
| **6334** | 10 | 0.266 | 6.76 | 0.032 | 0.81 |
| **6335** | 15 | 0.292 | 7.42 | 0.032 | 0.81 |
| **6336** | 25 | 0.354 | 8.99 | 0.032 | 0.81 |
| **6337** | 37 | 0.398 | 10.11 | 0.032 | 0.81 |
| **6338** | 50 | 0.449 | 11.40 | 0.032 | 0.81 |

Mutual capacitance: 32 pF/ft (105 pF/m)
Ground capacitance: 58 pF/ft (190 pF/m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6339** | 3 | 0.198 | 5.03 | 0.032 | 0.81 |
| **6340** | 4 | 0.211 | 5.36 | 0.032 | 0.81 |
| **6341** | 5 | 0.226 | 5.74 | 0.032 | 0.81 |
| **6342** | 6 | 0.241 | 6.12 | 0.032 | 0.81 |
| **6343** | 7 | 0.241 | 6.12 | 0.032 | 0.81 |
| **6344** | 8 | 0.256 | 6.50 | 0.032 | 0.81 |
| **6345** | 9 | 0.272 | 6.91 | 0.032 | 0.81 |
| **6346** | 10 | 0.290 | 7.37 | 0.032 | 0.81 |
| **6347** | 15 | 0.320 | 8.13 | 0.032 | 0.81 |
| **6348** | 25 | 0.390 | 9.91 | 0.032 | 0.81 |
| **6349** | 37 | 0.440 | 11.18 | 0.032 | 0.81 |
| **6350** | 50 | 0.540 | 13.72 | 0.053 | 1.35 |

Mutual capacitance: 36 pF/ft (118 pF/m)
Ground capacitance: 65 pF/ft (213 pF/m)

| **Color Coding:** 3 through 10 Conductors | |
|---|---|
| 1 Black | 6 Blue |
| 2 White | 7 Orange |
| 3 Red | 8 Yellow |
| 4 Green | 9 Violet |
| 5 Brown | 10 Slate |



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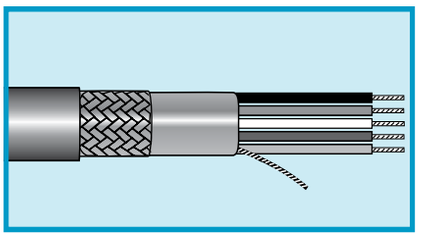
# Communication and Control

## 300 V Foil/Braid Shield, Multiconductor, FPE, PVC Low Capacitance Data Cable



**UL AWM 2919 (30 V) VW-1**
**UL CM**
**CSA CMH FT1**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMH)

### Conductor Color Coding

- Chart F (page 532) for 15 through 37 conductors. Other parts, see table at right.

### Materials

- Stranded tinned copper conductors
- Foam polyethylene insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6351** | 3 | 0.217 | 5.51 | 0.035 | 0.89 |
| **6352** | 4 | 0.231 | 5.87 | 0.035 | 0.89 |
| **6353** | 5 | 0.248 | 6.30 | 0.035 | 0.89 |
| **6354** | 6 | 0.265 | 6.73 | 0.035 | 0.89 |
| **6355** | 7 | 0.265 | 6.73 | 0.035 | 0.89 |
| **6356** | 8 | 0.282 | 7.16 | 0.035 | 0.89 |
| **6357** | 9 | 0.300 | 7.62 | 0.035 | 0.89 |
| **6358** | 10 | 0.320 | 8.13 | 0.035 | 0.89 |
| **6359** | 15 | 0.353 | 8.97 | 0.035 | 0.89 |
| **6360** | 25 | 0.432 | 10.97 | 0.035 | 0.89 |
| **6361** | 37 | 0.514 | 13.06 | 0.048 | 1.22 |

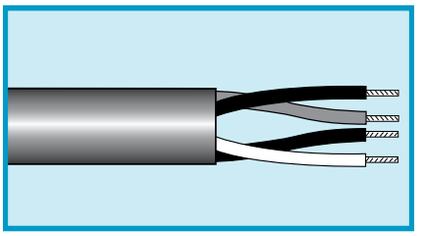
Mutual capacitance: 12 pF/ft (39.4 pF/m)
Ground capacitance: 22 pF/ft (72.2 pF/m)

**Color Coding**

| | | |
|---|---|---|
| 1 Black | 5 Brown | 9 Violet |
| 2 White | 6 Blue | 10 Slate |
| 3 Red | 7 Orange | |
| 4 Green | 8 Yellow | |

# Communication and Control

## 300 V Unshielded, Multipair, PVC, PVC



**UL AWM 2464, 2576 VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Slate PVC jacket

### Availability

1000 ft (305 m)

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1300C** | 1 | 0.157 | 3.99 | 0.032 | 0.81 |
| **1302C** | 2 | 0.215 | 5.46 | 0.032 | 0.81 |
| **1304C** | 3 | 0.226 | 5.74 | 0.032 | 0.81 |
| **1305C** | 4 | 0.246 | 6.25 | 0.032 | 0.81 |
| **1306C** | 5 | 0.267 | 6.78 | 0.032 | 0.81 |
| **1307C** | 6 | 0.289 | 7.34 | 0.032 | 0.81 |
| **1308/11C** | 11 | 0.362 | 9.19 | 0.032 | 0.81 |
| **1309C** | 13 | 0.382 | 9.70 | 0.032 | 0.81 |
| **1310C** | 16 | 0.414 | 10.52 | 0.032 | 0.81 |
| **1313C** | 27 | 0.537 | 13.64 | 0.040 | 1.02 |

### UL AWM 2576

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1317C** | 2 | 0.231 | 5.87 | 0.032 | 0.81 |
| **1318C** | 3 | 0.244 | 6.20 | 0.032 | 0.81 |
| **1319C** | 4 | 0.265 | 6.73 | 0.032 | 0.81 |
| **1320C** | 5 | 0.289 | 7.34 | 0.032 | 0.81 |
| **1322C** | 6 | 0.320 | 8.13 | 0.035 | 0.89 |
| **1323C** | 9 | 0.371 | 9.42 | 0.035 | 0.89 |
| **1324C** | 11 | 0.401 | 10.19 | 0.035 | 0.89 |
| **1325C** | 12 | 0.414 | 10.52 | 0.035 | 0.89 |
| **1327C** | 15 | 0.460 | 11.68 | 0.040 | 1.02 |
| **1327/19C** | 19 | 0.493 | 12.52 | 0.040 | 1.02 |

### UL AWM 2464

**18AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1131C** | 1 | 0.225 | 5.72 | 0.032 | 0.81 |
| **1132C** | 2 | 0.332 | 8.43 | 0.035 | 0.89 |
| **1133C** | 3 | 0.356 | 9.04 | 0.037 | 0.94 |
| **1134C** | 4 | 0.396 | 10.06 | 0.040 | 1.02 |
| **1135C** | 5 | 0.444 | 11.28 | 0.045 | 1.14 |
| **1136C** | 6 | 0.484 | 12.29 | 0.045 | 1.14 |
| **1138C** | 8 | 0.534 | 13.56 | 0.050 | 1.27 |
| **1139C** | 9 | 0.584 | 14.83 | 0.055 | 1.40 |
| **1149C** | 19 | 0.791 | 20.09 | 0.070 | 1.78 |



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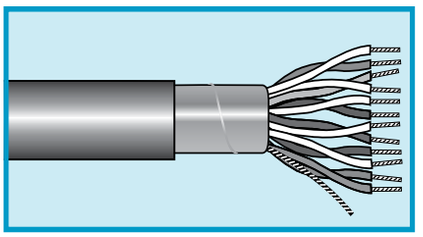
# Communication and Control

## 300 V Overall Foil Shield, Multipair, SR-PVC, PVC



**UL AWM 2464**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5471C** | 1 | 0.156 | 3.96 | 0.032 | 0.81 |
| **5472C** | 2 | 0.212 | 5.38 | 0.032 | 0.81 |
| **5473C** | 3 | 0.224 | 5.69 | 0.032 | 0.81 |
| **5474C** | 4 | 0.243 | 6.17 | 0.032 | 0.81 |
| **5475C** | 5 | 0.270 | 6.86 | 0.035 | 0.89 |
| **5476C** | 6 | 0.292 | 7.42 | 0.035 | 0.89 |
| **5477C** | 7 | 0.292 | 7.42 | 0.035 | 0.89 |
| **5478C** | 8 | 0.316 | 8.03 | 0.035 | 0.89 |
| **5479C** | 9 | 0.343 | 8.71 | 0.037 | 0.83 |
| **5480C** | 10 | 0.373 | 9.47 | 0.040 | 1.02 |
| **5480/15C** | 15 | 0.415 | 10.54 | 0.040 | 1.02 |
| **5480/19C** | 19 | 0.445 | 11.30 | 0.040 | 1.02 |
| **5480/25C** | 25 | 0.527 | 13.39 | 0.045 | 1.14 |
| **5480/50C** * | 50 | 0.699 | 17.75 | 0.053 | 1.35 |

*Color code chart C.

**Individually Shielded, 22 AWG (0.35 mm²), 7/30 (7 x .025) Tinned Copper Drain Wire**
**UL VW-1**

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.33 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6416** | 2 | 0.295 | 7.49 | 0.041 | 1.04 |

Mutual capacitance: 55 pF/ft (180 pF/m)
Ground capacitance: 95 pF/ft (312 pF/m)

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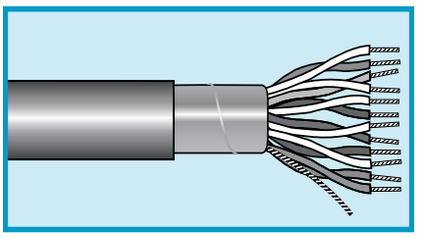
# Communication and Control

## 300 V Overall Foil Shield, Multipair, PVC, PVC



**UL AWM 2464 VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Solid tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **5902C** | 2 | 0.238 | 6.05 | 0.032 | 0.81 |
| **5905C** | 4 | 0.273 | 6.93 | 0.032 | 0.81 |
| **5906C** | 6 | 0.329 | 8.36 | 0.035 | 0.89 |
| **5909C** | 9 | 0.385 | 9.78 | 0.037 | 0.94 |
| **5909/15C** | 15 | 0.471 | 11.96 | 0.040 | 1.02 |
| **5909/19C** | 19 | 0.506 | 12.85 | 0.040 | 1.02 |



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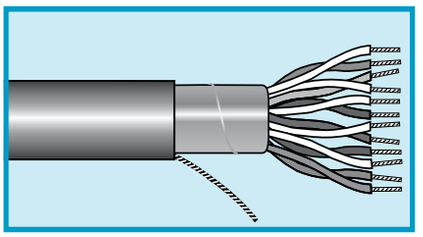
# Communication and Control

## 150 and 300 V Overall Foil Shield, Multipair, PVC, PVC



**UL AWM 2576 VW-1 (150 V)**
**UL AWM 2464 VW-1 (300 V)**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### 150 V, AWM 2576

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2211C** | 1 | 0.168 | 4.27 | 0.032 | 0.81 |
| **2212C** | 2 | 0.232 | 5.89 | 0.032 | 0.81 |
| **2213C** | 3 | 0.245 | 6.22 | 0.032 | 0.81 |
| **2214C** | 4 | 0.266 | 6.76 | 0.032 | 0.81 |
| **2215C** | 5 | 0.290 | 7.37 | 0.032 | 0.81 |
| **2216C** | 6 | 0.315 | 8.00 | 0.032 | 0.81 |
| **2219C** | 9 | 0.372 | 9.45 | 0.035 | 0.89 |
| **2219/12C** | 12 | 0.415 | 10.54 | 0.035 | 0.89 |
| **2219/15C** | 15 | 0.451 | 11.46 | 0.035 | 0.89 |
| **2219/19C** | 19 | 0.494 | 12.55 | 0.040 | 1.02 |
| **2219/23C** | 23 | 0.545 | 13.84 | 0.040 | 1.02 |
| **2219/27C** | 27 | 0.589 | 14.96 | 0.040 | 1.02 |

### 300 V, AWM 2464

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2241C** | 1 | 0.226 | 5.74 | 0.032 | 0.81 |
| **2242C** | 2 | 0.333 | 8.46 | 0.035 | 0.89 |
| **2243C** | 3 | 0.357 | 9.07 | 0.037 | 0.94 |
| **2244C** | 4 | 0.397 | 10.08 | 0.040 | 1.02 |
| **2245C** | 5 | 0.445 | 11.30 | 0.045 | 1.14 |
| **2246C** | 6 | 0.485 | 12.32 | 0.045 | 1.14 |
| **2249C** | 9 | 0.585 | 14.86 | 0.055 | 1.40 |
| **2249/12C** | 12 | 0.652 | 16.56 | 0.055 | 1.40 |
| **2249/19C** | 19 | 0.792 | 20.12 | 0.070 | 1.78 |

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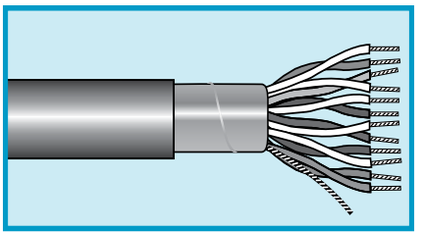
# Communication and Control

## 300 V Overall Foil Shield, Multipair, PVC, PVC



**UL PLTC/CM**
**UL VW-1**
**UL Sunlight Resistant**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Black and red pairs, numbered

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire, 24 AWG (0.22 mm²), 7/32 (7 x 0.20)
- Slate PVC jacket

### Availability

500 ft (152 m)
1000 ft (305 m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6417** | 2 | 0.267 | 6.78 | 0.038 | 0.97 |
| **6418** | 3 | 0.291 | 7.39 | 0.043 | 1.09 |
| **6419** | 4 | 0.315 | 8.00 | 0.043 | 1.09 |
| **6420** | 6 | 0.370 | 9.40 | 0.043 | 1.09 |
| **6421** | 9 | 0.447 | 11.35 | 0.053 | 1.35 |
| **6422** | 11 | 0.480 | 12.19 | 0.053 | 1.35 |
| **6423** | 15 | 0.545 | 13.84 | 0.053 | 1.35 |
| **6424** | 19 | 0.593 | 15.06 | 0.063 | 1.60 |
| **6425** | 27 | 0.698 | 17.73 | 0.063 | 1.60 |
| **6426** | 51 | 0.914 | 23.22 | 0.075 | 1.91 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6427** | 2 | 0.362 | 9.19 | 0.043 | 1.09 |
| **6428** | 3 | 0.403 | 10.24 | 0.053 | 1.35 |
| **6429** | 4 | 0.438 | 11.13 | 0.053 | 1.35 |
| **6430** | 6 | 0.518 | 13.16 | 0.053 | 1.35 |
| **6431** | 9 | 0.622 | 15.80 | 0.063 | 1.60 |
| **6432** | 11 | 0.671 | 17.04 | 0.063 | 1.60 |
| **6433** | 15 | 0.751 | 19.08 | 0.063 | 1.60 |



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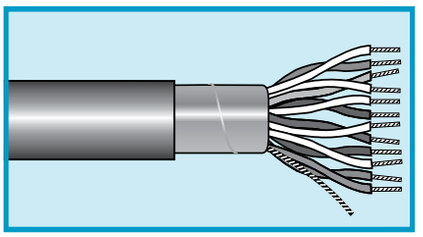
# Communication and Control

## 300 V Overall Foil Shield, Multipair, HDPE, PVC Low Capacitance, Extended Distance Cable



**UL AWM 2919 (30 V) VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart M (page 530)

### Materials

- Stranded tinned copper conductors
- High-density polyethylene insulation
- Aluminum/polyester/aluminum foil shield, 25% overlap min. Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6083C** | 3 | 0.235 | 5.97 | 0.035 | 0.89 |
| **6084C** | 4 | 0.254 | 6.45 | 0.035 | 0.89 |
| **6087C** | 7 | 0.297 | 7.54 | 0.035 | 0.89 |
| **6089C** | 9 | 0.342 | 8.69 | 0.035 | 0.89 |
| **6089/18C** | 18 | 0.440 | 11.18 | 0.035 | 0.89 |

Characteristic impedance: 100 ohms
Mutual capacitance: 15 pF/ft (49.2 pF/m)
Ground capacitance: 27 pF/ft (88.6 pF/m)

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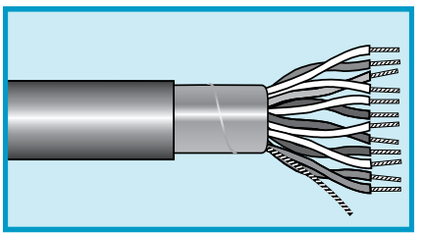
# Communication and Control

## 300 V Overall Foil Shield, Multipair, PE, PVC Low Capacitance Data Cable



**UL AWM 2919 (30 V) VW-1**
**UL CM**
**CSA CMH FT1**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMH)

### Conductor Color Coding

- Chart M (page 530)

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6301** | 6 | 0.351 | 8.92 | 0.035 | 0.89 |
| **6304** | 12.5 | 0.455 | 11.56 | 0.035 | 0.89 |

Characteristic impedance: 120 ohms
Mutual capacitance: 12.8 pF/ft (42 pF/m)
Ground capacitance: 23 pF/ft (75.4 pF/m)

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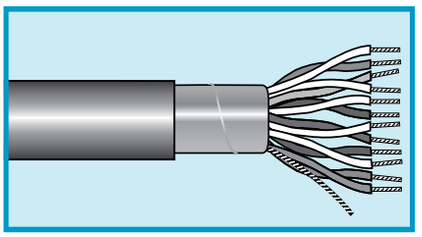
# Communication and Control

## 300 V Overall Foil Shield, Multipair, FPP, PVC Low Capacitance Data Cable



**UL AWM 2919 (30 V) VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6202C** | 2 | 0.258 | 6.55 | 0.035 | 0.89 |
| **6203C** | 3 | 0.272 | 6.91 | 0.035 | 0.89 |
| **6204C** | 4.5* | 0.304 | 7.72 | 0.035 | 0.89 |
| **6205C** | 5 | 0.323 | 8.20 | 0.035 | 0.89 |
| **6206C** | 6 | 0.351 | 8.92 | 0.035 | 0.89 |
| **6207C** | 7 | 0.351 | 8.92 | 0.035 | 0.89 |
| **6208C** | 8 | 0.379 | 9.63 | 0.035 | 0.89 |
| **6209C** | 9 | 0.408 | 10.36 | 0.035 | 0.89 |
| **6210C** | 10 | 0.441 | 11.20 | 0.035 | 0.89 |
| **6210/12C** | 12.5* | 0.455 | 11.56 | 0.035 | 0.89 |
| **6210/15C** | 15 | 0.496 | 12.60 | 0.035 | 0.89 |
| **6210/18C** | 18.5* | 0.554 | 14.07 | 0.050 | 1.27 |
| **6210/25C** | 25 | 0.655 | 16.64 | 0.050 | 1.27 |

*Single conductor colors: 4.5 = black, 12.5 = red, 18.5 = white

Characteristic impedance: 105 ohms
Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72 pF/m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.020 (0.51 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6212C** | 2 | 0.304 | 7.72 | 0.035 | 0.89 |
| **6213C** | 3 | 0.322 | 8.18 | 0.035 | 0.89 |
| **6216C** | 6 | 0.420 | 10.67 | 0.035 | 0.89 |
| **6217C** | 7 | 0.420 | 10.67 | 0.035 | 0.89 |
| **6218C** | 8 | 0.456 | 11.58 | 0.035 | 0.89 |
| **6220C** | 10 | 0.563 | 14.30 | 0.050 | 1.27 |
| **6220/12C** | 12.5* | 0.580 | 14.73 | 0.050 | 1.27 |
| **6220/15C** | 15 | 0.631 | 16.03 | 0.050 | 1.27 |
| **6220/18C** | 18.5* | 0.667 | 16.94 | 0.050 | 1.27 |
| **6220/25C** | 25 | 0.793 | 20.14 | 0.050 | 1.27 |

*Single conductor colors: 12.5 = red, 18.5 = white

Characteristic impedance: 105 ohms
Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72 pF/m)

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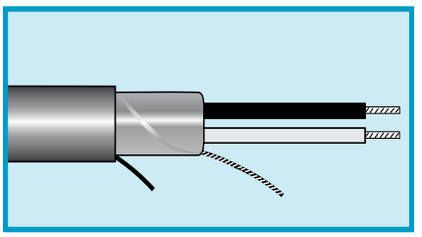
## 600 V Overall Foil Shield, Multipair, PE, PVC



**UL AWM 2106 VW-1**

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Black, clear

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire one even AWG size smaller than conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**16 AWG (1.32 mm²)**

Stranding: 19/0.0117 (19 x 0.30 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2471** | 1 | 0.314 | 7.98 | 0.035 | 0.89 |

Mutual capacitance: 20.5 pF/ft (67.3 pF/m)
Ground capacitance: 37 pF/ft (121.4 pF/m)

**14 AWG (1.94 mm²)**

Stranding: 19/27 (19 x 0.36 mm)
Insulation thickness: 0.032 (0.81 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2472** | 1 | 0.344 | 8.74 | 0.035 | 0.89 |

Mutual capacitance: 22.7 pF/ft (74.5 pF/m)
Ground capacitance: 41 pF/ft (134.5 pF/m)

**12 AWG (3.08 mm²)**

Stranding: 19/25 (19 x 0.45 mm)
Insulation thickness: 0.037 (0.94 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2473** | 1 | 0.412 | 10.46 | 0.040 | 1.02 |

Mutual capacitance: 23.9 pF/ft (78.4 pF/m)
Ground capacitance: 43 pF/ft (141.1 pF/m)

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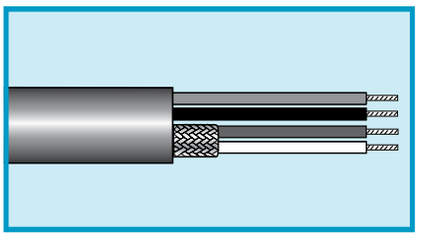
# Communication and Control

## 400 V Multiconductor, Multipair, PE, PVC Foil Shielded Pairs and Overall Foil Shield



**25 AWG (0.18 mm²)**

Stranding: 3/33 TC +4/33 TCW (3 x 0.18 +4 x 0.18 mm)
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Conductors | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|---|
| | | | Inch | mm | Inch | mm |
| **2468** | 2 | 1 | 0.165 | 4.19 | 0.020 | 0.51 |

### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Conductors: 1 White, 2 Green
  Pair: Black-Red

### Materials

- Stranded tinned and steel-coated copper conductors
- Polyethylene insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire, 25 AWG (0.18 mm²), 7/33 (7 x 0.18 mm)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

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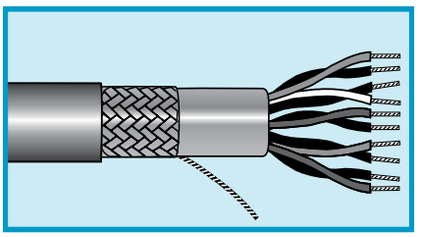
## 300 V Overall Foil/Braid Shield, Multipair, SR-PVC, PVC



**UL AWM 2464 VW-1**
**UL CL2**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CL2)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | Availability |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Ft |
| **3472C** | 2 | 0.211 | 5.36 | 0.035 | 0.89 | 100 |
| **3474C** | 4 | 0.235 | 5.97 | 0.035 | 0.89 | 100 |
| **3475C** | 5 | 0.258 | 6.55 | 0.035 | 0.89 | 100, 1000 |
| **3476C** | 6 | 0.275 | 6.99 | 0.035 | 0.89 | 100 |
| **3477C** | 7 | 0.275 | 6.99 | 0.035 | 0.89 | 100 |
| **3480C** | 10 | 0.332 | 8.43 | 0.035 | 0.89 | 100, 500, 1000 |
| **3480/12C** | 12.5 | 0.342 | 8.69 | 0.035 | 0.89 | 100, 500, 1000 |
| **3480/18C** | 18 | 0.389 | 9.88 | 0.035 | 0.89 | 100, 500, 1000 |
| **3480/25C** | 25 | 0.446 | 11.33 | 0.035 | 0.89 | 100, 500, 1000 |



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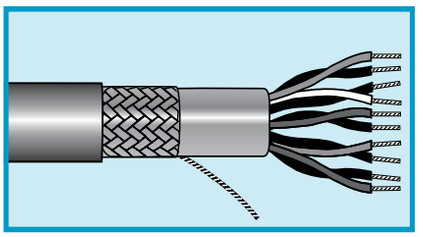
## 300 V Overall Foil/Braid Shield, Multipair, SR-PVC, PVC



**UL AWM 2464 VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- See tables

### Materials

- Stranded tinned copper conductors
- Semirigid PVC insulation
- Foil + braid shield
  Aluminum/polyester foil, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire, 24 AWG (0.23 mm²), 7/32 (7 x 0.20 mm)
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **6362** | 2 | 0.234 | 5.94 | 0.032 | 0.81 | M |
| **6363** | 3 | 0.246 | 6.25 | 0.032 | 0.81 | M |
| **6364** | 4 | 0.265 | 6.73 | 0.032 | 0.81 | M |
| **6365** | 5 | 0.286 | 7.26 | 0.032 | 0.81 | M |
| **6366** | 6 | 0.308 | 7.82 | 0.032 | 0.81 | M |
| **6367** | 7 | 0.308 | 7.82 | 0.032 | 0.81 | M |
| **6368** | 10 | 0.379 | 9.63 | 0.032 | 0.81 | M |
| **6369** | 12.5 | 0.389 | 9.62 | 0.032 | 0.81 | M |
| **6370** | 15 | 0.421 | 10.69 | 0.032 | 0.81 | M |
| **6371** | 18 | 0.451 | 11.46 | 0.032 | 0.81 | M |
| **6372** | 25 | 0.523 | 13.28 | 0.032 | 0.81 | M |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | Color Code |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **6373** | 2 | 0.254 | 6.45 | 0.032 | 0.81 | A |
| **6374** | 3 | 0.267 | 6.78 | 0.032 | 0.81 | A |
| **6375** | 4 | 0.288 | 7.32 | 0.032 | 0.81 | A |
| **6376** | 5 | 0.312 | 7.92 | 0.032 | 0.81 | Chart below |
| **6377** | 6 | 0.337 | 8.56 | 0.032 | 0.81 | A |
| **6378** | 7 | 0.337 | 8.56 | 0.032 | 0.81 | A |
| **6379** | 8 | 0.363 | 9.22 | 0.032 | 0.81 | Chart below |
| **6380** | 10 | 0.418 | 10.62 | 0.032 | 0.81 | A |
| **6381** | 12.5 | 0.430 | 10.92 | 0.032 | 0.81 | A |
| **6382** | 15 | 0.467 | 11.86 | 0.032 | 0.81 | A |
| **6383** | 18 | 0.500 | 12.70 | 0.032 | 0.81 | A |
| **6384** | 25 | 0.595 | 15.11 | 0.032 | 0.81 | A |

**Color Code Chart** (Part No. 6376 and 6379)

| Pair No. | Color | Pair No. | Color |
|---|---|---|---|
| 1 | Black, Red | 5 | Black, Yellow |
| 2 | Black, White | 6 | Black, Brown |
| 3 | Black, Green | 7 | Black, Orange |
| 4 | Black, Blue | 8 | Red, White |

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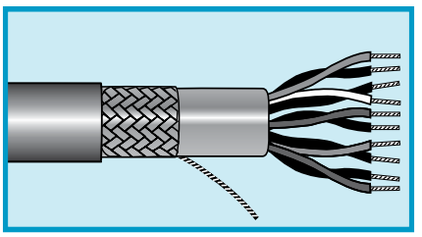
## 300 V Overall Foil/Braid Shield, Multipair, PE, PVC Low Capacitance Data Cable



**UL AWM 2960 VW-1**
**UL CL2**
**CSA CMH FT1**

### Operating Temperature

- -20°C to +75°C (CL2)
- -20°C to +60°C (AWM, CMH)

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Foil + braid shielding
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**28 AWG (0.089 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6390** | 2 | 0.211 | 5.36 | 0.035 | 0.89 |
| **6391** | 3 | 0.220 | 5.59 | 0.035 | 0.89 |
| **6392** | 4 | 0.235 | 5.97 | 0.035 | 0.89 |
| **6393** | 5 | 0.252 | 6.40 | 0.035 | 0.89 |
| **6394** | 7 | 0.269 | 6.83 | 0.035 | 0.89 |
| **6395** | 9 | 0.305 | 7.75 | 0.035 | 0.89 |
| **6396** | 12 | 0.335 | 8.51 | 0.035 | 0.89 |
| **6397** | 13 | 0.341 | 8.66 | 0.035 | 0.89 |
| **6398** | 18 | 0.383 | 9.73 | 0.035 | 0.89 |
| **6399** | 25 | 0.440 | 11.18 | 0.035 | 0.89 |
| **6400** | 31 | 0.470 | 11.94 | 0.035 | 0.89 |

Characteristic impedance: 100 ohms
Mutual capacitance: 15.5 pF/ft (50.9 pF/m)
Ground capacitance: 27.5 pF/ft (90.2 pF/m)



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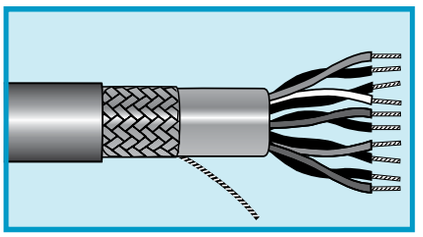
# Communication and Control

## 300 V Overall Foil/Braid Shield, Multipair, PE, PVC Low Capacitance Data Cable



**UL AWM 2919 VW-1**
**UL CM**
**CSA CM FT1**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)

### Conductor Color Coding

- Chart M (page 530)

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Foil + braid shielding
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% or 90% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
65% braid coverage

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6401** | 2 | 0.280 | 7.11 | 0.035 | 0.89 |
| **6402** | 3 | 0.294 | 7.47 | 0.035 | 0.89 |
| **6403** | 4 | 0.318 | 8.08 | 0.035 | 0.89 |
| **6404** | 5 | 0.345 | 8.76 | 0.035 | 0.89 |
| **6405** | 6 | 0.373 | 9.47 | 0.035 | 0.89 |
| **6406** | 7 | 0.373 | 9.47 | 0.035 | 0.89 |
| **6407** | 9 | 0.430 | 10.92 | 0.035 | 0.89 |
| **6408** | 10 | 0.463 | 11.76 | 0.035 | 0.89 |
| **6409** | 12 | 0.478 | 12.14 | 0.035 | 0.89 |
| **6410** | 18 | 0.580 | 14.73 | 0.047 | 1.19 |
| **6411** | 25 | 0.671 | 17.04 | 0.047 | 1.19 |

Characteristic impedance: 100 ohms
Mutual capacitance: 15.5 pF/ft (50.9 pF/m)
Ground capacitance: 27.5 pF/ft (90.2 pF/m)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)
90% braid coverage

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6412** | 1 | 0.208 | 5.28 | 0.035 | 0.89 |
| **6413** | 2 | 0.280 | 7.11 | 0.035 | 0.89 |
| **6414** | 3 | 0.294 | 7.47 | 0.035 | 0.89 |
| **6415** | 4 | 0.318 | 8.08 | 0.035 | 0.89 |

Characteristic impedance: 120 ohms
Mutual capacitance: 12.8 pF/ft (42 pF/m)
Ground capacitance: 23 pF/ft (75.5 pF/m)

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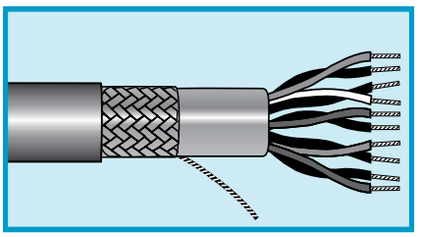
## 300 V Overall Foil/Braid Shield, Multipair, FPP, PVC Low Capacitance Data Cable



**UL AWM 2919 (30 V) VW-1**
**UL CL2**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CL2)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart M (page 530)

### Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Foil + braid shielding
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**28 AWG (0.089 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3492C** | 2 | 0.230 | 5.84 | 0.035 | 0.89 |
| **3493C** | 3 | 0.241 | 6.12 | 0.035 | 0.89 |
| **3494C** | 4 | 0.265 | 6.73 | 0.035 | 0.89 |
| **3495C** | 5 | 0.284 | 7.21 | 0.035 | 0.89 |
| **3496C** | 6 | 0.305 | 7.75 | 0.035 | 0.89 |
| **3498C** | 8 | 0.326 | 8.28 | 0.035 | 0.89 |
| **3500/12C** | 12.5 | 0.381 | 9.67 | 0.035 | 0.89 |
| **3500/18C** | 18 | 0.439 | 11.15 | 0.035 | 0.89 |
| **3500/25C** | 25 | 0.531 | 13.49 | 0.048 | 1.22 |

Mutual capacitance: 12 pF/ft (39.3 pF/m)
Ground capacitance: 20 pF/ft (65.5 pF/m)



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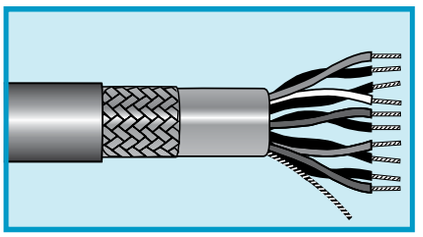
## 300 V Overall Foil/Braid Shield, Multipair, FPP, PVC Low Capacitance Data Cable



**UL AWM 2919 (30 V) VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart M (page 530)

### Materials

- Stranded tinned copper conductors
- Foam polypropylene insulation
- Foil + braid shielding
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6222C** | 2 | 0.280 | 7.11 | 0.035 | 0.89 |
| **6223C** | 3 | 0.294 | 7.47 | 0.035 | 0.89 |
| **6224C** | 4 | 0.318 | 8.08 | 0.035 | 0.89 |
| **6225C** | 5 | 0.345 | 8.76 | 0.035 | 0.89 |
| **6226C** | 6 | 0.373 | 9.47 | 0.035 | 0.89 |
| **6227C** | 7 | 0.373 | 9.47 | 0.035 | 0.89 |
| **6228C** | 8 | 0.401 | 10.19 | 0.035 | 0.89 |
| **6230C** | 10 | 0.463 | 11.76 | 0.035 | 0.89 |
| **6230/12C** | 12.5 | 0.477 | 12.12 | 0.035 | 0.89 |
| **6230/15C** | 15 | 0.518 | 13.16 | 0.035 | 0.89 |
| **6230/18C** | 18 | 0.586 | 14.88 | 0.050 | 1.27 |
| **6230/25C** | 25 | 0.677 | 17.20 | 0.050 | 1.27 |

Characteristic impedance: 105 ohms
Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72 pF/m)

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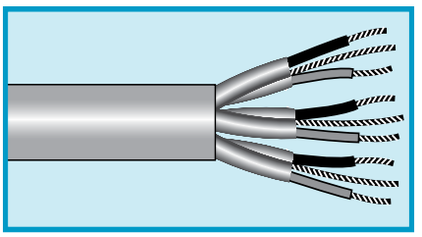
## 300 V Individually Foil Shielded Pairs, Multipair, PVC, PVC



**UL AWM 2919 (30 V) VW-1**
**UL CL2**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Individual aluminum/polyester foil shield, 25% overlap min. Foil facing inward Stranded tinned copper drain wire
- PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6052C** | 2 | 0.316 | 8.03 | 0.043 | 1.09 |
| **6053C** | 3 | 0.334 | 8.48 | 0.043 | 1.09 |
| **6054C** | 4 | 0.364 | 9.25 | 0.043 | 1.09 |
| **6056C** | 6 | 0.451 | 11.46 | 0.053 | 1.35 |
| **6059C** | 9 | 0.522 | 13.26 | 0.053 | 1.35 |
| **6059/11C** | 11 | 0.581 | 14.76 | 0.053 | 1.35 |
| **6059/15C** | 15 | 0.644 | 16.36 | 0.053 | 1.35 |
| **6059/19C** | 19 | 0.698 | 17.73 | 0.063 | 1.60 |
| **6059/27C** | 27 | 0.828 | 21.03 | 0.063 | 1.60 |

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.51 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6062C** | 2 | 0.376 | 9.55 | 0.043 | 1.09 |
| **6063C** | 3 | 0.418 | 10.62 | 0.053 | 1.35 |
| **6064C** | 4 | 0.456 | 11.58 | 0.053 | 1.35 |
| **6066C** | 6 | 0.541 | 13.74 | 0.053 | 1.35 |
| **6069C** | 9 | 0.650 | 16.51 | 0.063 | 1.60 |
| **6069/15C** | 15 | 0.804 | 20.42 | 0.063 | 1.60 |



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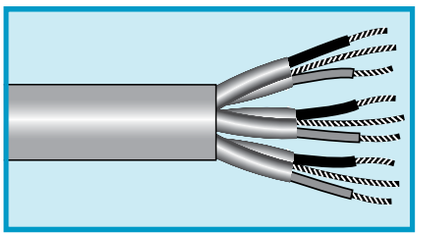
## 300 V Individually Foil Shielded Pairs, Multipair, PP, PVC



**UL 2493 VW-1**
**UL CM, CMG**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60°C (AWM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Solid or stranded tinned copper conductors
- Polypropylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Solid or stranded tinned copper drain wire, 22 AWG (0.35 mm²), 7/30 (7 x 0.25 mm)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | UL |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **6000C** | 3 | 0.278 | 7.06 | 0.047 | 1.19 | CM |
| **6008C** | 15 | 0.492 | 12.50 | 0.047 | 1.19 | CM |

Characteristic impedance: 62 ohms
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147 pF/m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | UL |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **6010C** | 3 | 0.298 | 7.57 | 0.048 | 1.22 | CMG |
| **6012C** | 6 | 0.378 | 9.60 | 0.048 | 1.22 | CMG |
| **6014C** | 9 | 0.436 | 11.07 | 0.048 | 1.22 | CMG |
| **6016C** | 11 | 0.483 | 12.27 | 0.048 | 1.22 | CMG |
| **6017C** | 12 | 0.483 | 12.27 | 0.048 | 1.22 | CMG |
| **6018C** | 15 | 0.565 | 14.35 | 0.063 | 1.60 | CM |
| **6019C** | 17 | 0.593 | 15.06 | 0.063 | 1.60 | CM |
| **6020C** | 19 | 0.593 | 15.06 | 0.063 | 1.60 | CM |
| **6022C** | 27 | 0.698 | 17.73 | 0.063 | 1.60 | CM |

Characteristic impedance: 55 ohms
Mutual capacitance: 28 pF/ft (91.9 pF/m)
Ground capacitance: 50 pF/ft (164 pF/m)

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.33 mm)
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | UL |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **6032C** | 2 | 0.331 | 8.41 | 0.047 | 1.19 | CMG |
| **6033C** | 3 | 0.349 | 8.86 | 0.047 | 1.19 | CMG |
| **6036C** | 6 | 0.450 | 11.43 | 0.047 | 1.19 | CMG |
| **6039C** | 9 | 0.555 | 14.10 | 0.063 | 1.60 | CMG |
| **6042C** | 12 | 0.615 | 15.62 | 0.063 | 1.60 | CMG |

Characteristic impedance: 61 ohms
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

**18 AWG (0.81 mm²)**

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | UL |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **6023C** | 3 | 0.406 | 10.31 | 0.047 | 1.19 | CM |
| **6024C** | 6 | 0.561 | 14.25 | 0.063 | 1.60 | CM |
| **6025C** | 9 | 0.650 | 16.51 | 0.063 | 1.60 | CM |

Characteristic impedance: 59 ohms
Mutual capacitance: 26 pF/ft 85.3 pF/m)
Ground capacitance: 47 pF/ft (154.2 pF/m)

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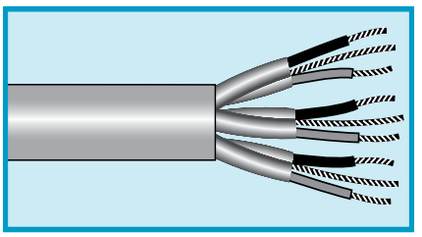
# Communication and Control

## 300 V Individually Foil Shielded Pairs, Multipair, PVC, PVC



**UL PLTC**
**UL CM**
**UL VW-1**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +105°C (PLTC, CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Black and red pairs, numbered

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Individual aluminum/polyester foil shield, 25% overlap min. Foil facing inward
  Stranded tinned copper drain wire
- Slate PVC jacket

### Availability

500 ft (152 m)
1000 ft (305 m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.013 (0.33 mm)
24 AWG (0.23 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6434** | 2 | 0.295 | 7.49 | 0.043 | 1.09 |
| **6435** | 3 | 0. 311 | 7.89 | 0.043 | 1.09 |
| **6436** | 4 | 0.338 | 8.58 | 0.043 | 1.35 |
| **6437** | 6 | 0.420 | 10.66 | 0.053 | 1.35 |
| **6438** | 9 | 0.484 | 12.29 | 0.053 | 1.35 |
| **6439** | 11 | 0.537 | 13.63 | 0.053 | 1.35 |
| **6440** | 19 | 0.646 | 16.40 | 0.063 | 1.60 |
| **6441** | 51 | 1.020 | 25.90 | 0.075 | 1.91 |

**18 AWG (0.96 mm²)**

Stranding: 19/30 (19 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
20 AWG (0.56 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6442** | 2 | 0.406 | 10.31 | 0.053 | 1.35 |
| **6443** | 3 | 0.429 | 10.90 | 0.053 | 1.35 |
| **6444** | 4 | 0.468 | 11.89 | 0.053 | 1.35 |
| **6445** | 6 | 0.557 | 14.15 | 0.053 | 1.35 |
| **6446** | 9 | 0.669 | 16.99 | 0.063 | 1.60 |
| **6447** | 11 | 0.746 | 18.95 | 0.063 | 1.60 |
| **6448** | 15 | 0.829 | 21.06 | 0.063 | 1.60 |



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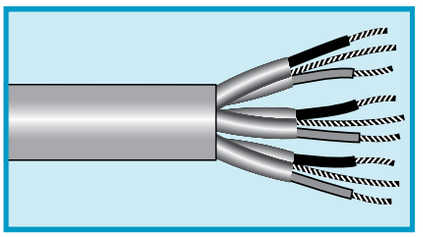
# Communication and Control

## 350 V Individually Foil Shielded Pairs, Multipair, PP, PE Direct Burial



### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min. Foil facing inward
  Stranded tinned copper drain wire, 22 AWG (0.35 mm²), 7/30 (7 x 0.25 mm)
- Black polyethylene jacket

### Availability

1000 ft (305 m)
500 ft (152 m)

**20 AWG (0.51 mm²)**

Stranding: 10/30 (10 x 0.25 mm)
Insulation thickness: 0.008 (0.20 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6314** | 3 | 0.291 | 7.39 | 0.040 | 1.02 |
| **6315** | 6 | 0.385 | 9.78 | 0.045 | 1.14 |

Characteristic impedance: 48 ohms
Mutual capacitance: 31 pF/ft (101.7 pF/m)
Ground capacitance: 56 pF/ft (183.7 pF/m)

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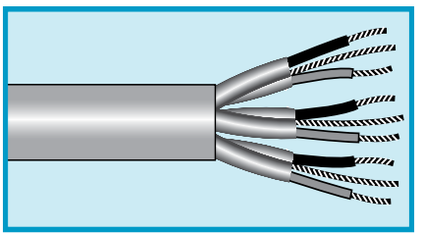
## 300 V Individually Foil Shielded Pairs, Multipair, PE, PVC



**UL AWM 2919 (30 V) VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +80°C (AWM)
- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

- Chart A (page 528)

### Materials

- Stranded tinned copper conductors
- Polyethylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire equal in size to conductor
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6385** | 3 | 0.247 | 6.27 | 0.035 | 0.89 |
| **6386** | 6 | 0.317 | 8.05 | 0.035 | 0.89 |
| **6387** | 9 | 0.368 | 9.35 | 0.035 | 0.89 |
| **6388** | 12 | 0.411 | 10.44 | 0.035 | 0.89 |
| **6389** | 25 | 0.599 | 15.21 | 0.047 | 1.19 |

Characteristic impedance: 60 ohms
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 47 pF/ft (154.2 pF/m)



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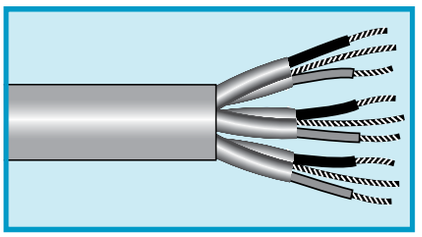
# Communication and Control

## 300 V Individually Foil Shielded Pairs, Multipair, PP, PVC



**UL CMG**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60°C (CMG)

### Conductor Color Coding

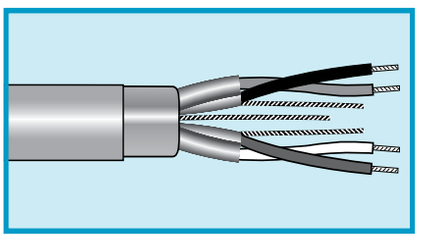
- See tables

### Materials

- Stranded tinned copper conductors
- Polypropylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min. Stranded tinned copper drain wire (see tables for sizes)
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)



### Individually Shielded Pairs

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
24 AWG (0.22 mm²) drain wire
Foil facing outward

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2466C** | 2 | 0.170 | 4.32 | 0.020 | 0.51 |

Characteristic impedance: 60 ohms
Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

Color code: 1 Red-Black, 2 Green-White.

### Individually Shielded Pairs, UL CM

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.20 mm)
24 AWG (0.22 mm²) drain wire
Foil facing outward

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2463C** | 4 | 0.230 | 5.84 | 0.020 | 0.51 |

Characteristic impedance: 53 ohms
Mutual capacitance: 29 pF/ft (95.1 pF/m)
Ground capacitance: 52 pF/ft (170.6 pF/m)

Color code: 1 Red-Black, 2 Green-White, 3 White/Red-White/Black, 4 White/Green-White/Yellow.

### Individually Shielded Pairs

**20 AWG (0.56 mm²)**

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.015 (0.38 mm)
22 AWG (0.35 mm²) drain wire
Foil facing inward

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **2467C** | 4 | 0.340 | 8.64 | 0.030 | 0.76 |

Characteristic impedance: 66 ohms
Mutual capacitance: 23 pF/ft (75.5 pF/m)
Ground capacitance: 41 pF/ft (134.5 pF/m)

Color code: 1 Red-Black, 2 Green-White, 3 White/Red-White/Black, 4 White/Green-White/Yellow.

### Individually Shielded Pairs +Overall Shield, AWM 2717

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.009 (0.23 mm)
22 AWG (0.35 mm²) drain wire
Foil facing inward

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1243/2C** | 2 | 0.245 | 6.22 | 0.030 | 0.76 |

Characteristic impedance: 57 ohms
Mutual capacitance: 27 pF/ft (88.6 pF/m)
Ground capacitance: 49 pF/ft (160.7 pF/m)

Color code: 1 Red-Black, 2 Green-White.

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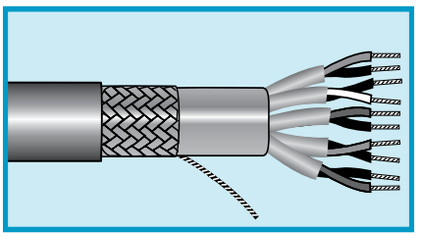
## 300 V Individually Foil Shielded Pairs and Overall Foil/Braid, Multipair, FPE, PVC, Low Capacitance Data Cable



**UL AWM 2493 VW-1**
**UL CM**
**CSA CM FT1**

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60°C (AWM, CMG)

### Conductor Color Coding

- Chart A (page 528)
- (See table at right for Part No. 6319 and 6322)

### Materials

- Stranded tinned copper conductors
- Foam polyethylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire, 24 AWG (0.23 mm²), 7/32 (7 x 0.20 mm)
- Overall foil + braid shielding
  Aluminum/polyester foil, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire equal in size to conductor
  Tinned copper braid, 65% coverage
- Slate PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.019 (0.49 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **6316** | 2 | 0.349 | 8.86 | 0.048 | 1.22 |
| **6317** | 3 | 0.353 | 8.97 | 0.048 | 1.22 |
| **6318** | 4 | 0.397 | 10.08 | 0.048 | 1.22 |
| **6319*** | 5 | 0.430 | 10.92 | 0.048 | 1.22 |
| **6320** | 6 | 0.464 | 11.79 | 0.048 | 1.22 |
| **6321** | 7 | 0.464 | 11.79 | 0.048 | 1.22 |
| **6322*** | 8 | 0.499 | 12.67 | 0.048 | 1.22 |
| **6323** | 10 | 0.606 | 15.39 | 0.063 | 1.60 |
| **6324** | 15 | 0.687 | 17.45 | 0.063 | 1.60 |
| **6325** | 18 | 0.721 | 18.31 | 0.063 | 1.60 |
| **6326** | 25 | 0.901 | 22.89 | 0.085 | 2.16 |

Characteristic impedance: 100 ohms
Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 22 pF/ft (72.2 pF/m)

***Color Code**

| Pair No. | Color | Pair No. | Color |
|---|---|---|---|
| 1 | Black, Red | 5 | Black, Yellow |
| 2 | Black, White | 6 | Black, Brown |
| 3 | Black, Green | 7 | Black, Orange |
| 4 | Black, Blue | 8 | Red, White |



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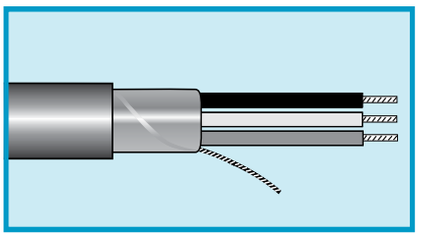
# Communication and Control

## 300 V Foil Shield, Multiconductor, PVC, PVC Plenum Rated



**UL CL2P**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -5°C to +75°C

### Conductor Color Coding

- Chart D2 (page 531)

### Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Foil shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Slate plenum-rated PVC jacket

### Availability

500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.008 (0.020 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58401** | 2 | 0.120 | 3.05 | 0.015 | 0.39 |
| **57003** | 3 | 0.120 | 3.05 | 0.015 | 0.39 |
| **57004** | 4 | 0.131 | 3.33 | 0.015 | 0.39 |
| **57006** | 6 | 0.154 | 3.91 | 0.015 | 0.39 |
| **57008** | 8 | 0.167 | 4.24 | 0.015 | 0.39 |
| **57010** | 10 | 0.194 | 4.93 | 0.015 | 0.39 |
| **57015** | 15 | 0.217 | 5.51 | 0.015 | 0.39 |
| **58110/25** | 25 | 0.262 | 6.65 | 0.015 | 0.39 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.020 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58411** | 2 | 0.126 | 3.20 | 0.015 | 0.39 |
| **58113** | 3 | 0.133 | 3.38 | 0.015 | 0.39 |
| **58114** | 4 | 0.145 | 3.68 | 0.015 | 0.39 |
| **58116** | 6 | 0.172 | 4.37 | 0.015 | 0.39 |
| **58117** | 7 | 0.172 | 4.37 | 0.015 | 0.39 |
| **58118** | 8 | 0.187 | 4.75 | 0.015 | 0.39 |
| **58119** | 9 | 0.201 | 5.11 | 0.015 | 0.39 |
| **58120** | 10 | 0.218 | 5.54 | 0.015 | 0.39 |
| **58120/12** | 12 | 0.225 | 5.72 | 0.015 | 0.39 |
| **58120/15** | 15 | 0.245 | 6.22 | 0.015 | 0.39 |
| **58120/25** | 25 | 0.314 | 7.98 | 0.017 | 0.43 |

**20 AWG (0.35 mm²)**

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.008 (0.020 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58421** | 2 | 0.138 | 3.51 | 0.015 | 0.39 |
| **58124** | 4 | 0.160 | 4.06 | 0.015 | 0.39 |
| **58126** | 6 | 0.191 | 4.85 | 0.015 | 0.39 |

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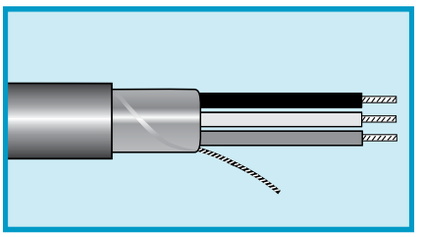
## 300 V Foil Shield, Multiconductor, PVC, PVC Plenum Rated



**UL CL2P**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -5°C to +75°C

### Conductor Color Coding

- Chart D2 (page 531)

### Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Foil shield
  Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Slate plenum-rated PVC jacket

### Availability

500 ft (152 m)
1000 ft (305 m)

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.009 (0.023 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58431** | 2 | 0.162 | 4.11 | 0.015 | 0.39 |
| **58133** | 3 | 0.172 | 4.37 | 0.015 | 0.39 |
| **58134** | 4 | 0.189 | 4.80 | 0.015 | 0.39 |
| **58136** | 6 | 0.227 | 5.77 | 0.015 | 0.39 |

**16 AWG (1.31 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.009 (0.023 mm)
18 AWG (0.82 mm²) drain wire

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58142** | 2 | 0.186 | 4.72 | 0.015 | 0.39 |
| **58144** | 4 | 0.218 | 5.54 | 0.015 | 0.39 |



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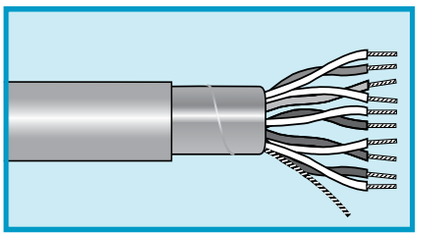
# Communication and Control

## 300/150 V Foil Shield, Multipair, PVC, PVC Plenum Rated



**UL CL2P**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -5°C to +75°C

### Conductor Color Coding

- Chart A1 (page 528)

### Materials

- Stranded bare copper conductors
- Plenum-rated PVC insulation
- Foil shield
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing outward
  Stranded tinned copper drain wire (see tables for size)
- Slate plenum-rated PVC jacket

### Availability

500 ft (152 m)
1000 ft (305 m)

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.008 (0.020 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **57602** | 2 | 0.165 | 4.19 | 0.015 | 0.39 |
| **57603** | 3 | 0.175 | 4.45 | 0.015 | 0.39 |
| **57604** | 4 | 0.193 | 4.90 | 0.015 | 0.39 |
| **57605** | 5 | 0.212 | 5.38 | 0.015 | 0.39 |
| **57606** | 6 | 0.231 | 5.87 | 0.015 | 0.39 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.008 (0.020 mm)
24 AWG (0.22 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58412** | 2 | 0.185 | 4.70 | 0.015 | 0.39 |
| **58413** | 3 | 0.197 | 5.00 | 0.015 | 0.39 |
| **58414** | 4 | 0.217 | 5.51 | 0.015 | 0.39 |
| **58415** | 5 | 0.239 | 6.07 | 0.015 | 0.39 |
| **58416** | 6 | 0.261 | 6.63 | 0.015 | 0.39 |
| **57628** | 8 | 0.285 | 7.24 | 0.015 | 0.39 |
| **58419** | 9 | 0.311 | 7.90 | 0.016 | 0.41 |
| **58420/19** | 19 | 0.418 | 10.62 | 0.018 | 0.46 |

**20 AWG (0.35 mm²)**

Stranding: 7/0.0121 (7 x 0.31 mm)
Insulation thickness: 0.008 (0.020 mm)
22 AWG (0.35 mm²) drain wire

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **57632** | 2 | 0.205 | 5.21 | 0.015 | 0.39 |
| **57634** | 4 | 0.240 | 6.10 | 0.015 | 0.39 |
| **57636** | 6 | 0.291 | 7.39 | 0.015 | 0.39 |

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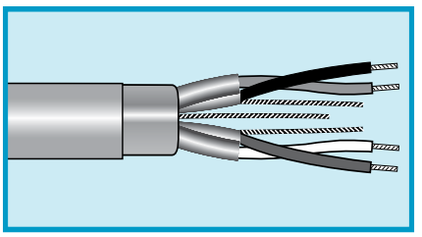
# Communication and Control

## 150 V Foil Shield, Multipair, FEP, PVDF
## Plenum Rated, Low- and Mid-Capacitance



**UL CL2P**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -25°C to +125°C

### Conductor Color Coding

- Chart A1 (page 528)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire, 24 AWG (0.22 mm²), 7/32 (7 x 0.20 mm)
- Slate PVDF jacket

### Availability

500 ft (152 m)
1000 ft (305 m)*
*May contain multiple lengths

### Individually Shielded Pairs

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.007 (0.18 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58602** | 2 | 0.164 | 4.17 | 0.009 | 0.23 |
| **58603** | 3 | 0.175 | 4.45 | 0.009 | 0.23 |
| **58604** | 4 | 0.194 | 4.93 | 0.009 | 0.23 |

Mutual capacitance: 25 pF/ft (82 pF/m)
Ground capacitance: 45 pF/ft (147.6 pF/m)

### Overall Shield

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.007 (0.18 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58802** | 2 | 0.154 | 3.91 | 0.011 | 0.28 |
| **58803** | 3 | 0.163 | 4.14 | 0.011 | 0.28 |
| **58804** | 4 | 0.180 | 4.57 | 0.011 | 0.28 |
| **58806** | 6 | 0.217 | 5.51 | 0.011 | 0.28 |
| **58809** | 9 | 0.256 | 6.50 | 0.011 | 0.28 |
| **58812** | 12.5 | 0.294 | 7.47 | 0.011 | 0.28 |

Mutual capacitance: 20 pF/ft (65.6 pF/m)
Ground capacitance: 36 pF/ft (118.1 pF/m)

### Overall Shield

**24 AWG (0.22 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.012 (0.30 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58902** | 2 | 0.186 | 4.72 | 0.011 | 0.28 |
| **58903** | 3 | 0.199 | 5.05 | 0.011 | 0.28 |
| **58904** | 4 | 0.219 | 5.56 | 0.011 | 0.28 |
| **58906** | 6 | 0.266 | 6.76 | 0.011 | 0.28 |
| **58909** | 9 | 0.315 | 8.00 | 0.011 | 0.28 |
| **58912** | 12.5 | 0.367 | 9.32 | 0.011 | 0.28 |

Mutual capacitance: 12.5 pF/ft (41 pF/m)
Ground capacitance: 23 pF/ft (75.5 pF/m)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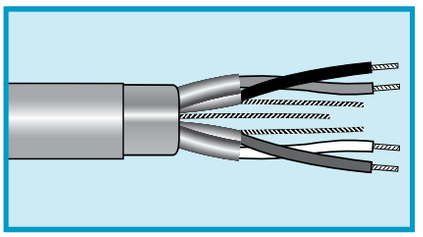
# Communication and Control

## 150 V Foil Shield, Multipair, FEP, PVDF
## Plenum Rated, Low- and Mid-Capacitance



**UL CL2P**
**UL CMP**
**CSA CMP FT6**

### Operating Temperature

- -55°C to +125°C

### Conductor Color Coding

- Chart A1 (page 528)

### Materials

- Stranded tinned copper conductors
- FEP insulation
- Aluminum/polyester foil shield, 25% overlap min.
  Foil facing inward
  Stranded tinned copper drain wire, 24 AWG (0.22 mm²), 7/32 (7 x 0.20 mm)
- Slate PVDF jacket

### Availability

500 ft (152 m)
1000 ft (305 m)*
*May contain multiple lengths

### Overall Foil Shield, Individually Shielded Pairs

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.007 (0.18 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58612** | 2 | 0.189 | 4.80 | 0.009 | 0.23 |
| **58613** | 3 | 0.202 | 5.13 | 0.009 | 0.23 |
| **58616** | 6 | 0.272 | 6.91 | 0.009 | 0.23 |

Mutual capacitance: 29 pF/ft (95.1 pF/m)
Ground capacitance: 51 pF/ft (167.3 pF/m)

### Individually Shielded Pairs, Overall Shield

**18 AWG (0.82 mm²)**

Stranding: 7/0.0152 (7 x 0.39 mm)
Insulation thickness: 0.007 (0.18 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58632** | 2 | 0.247 | 6.27 | 0.010 | 0.25 |
| **58633** | 3 | 0.264 | 6.71 | 0.012 | 0.30 |

Mutual capacitance: 35 pF/ft (114.8 pF/m)
Ground capacitance: 63 pF/ft (206.7 pF/m)

### Individually Shielded Pairs

**16 AWG (0.35 mm²)**

Stranding: 7/0.0192 (7 x 0.49 mm)
Insulation thickness: 0.007 (0.18 mm)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **58642** | 2 | 0.289 | 7.34 | 0.012 | 0.30 |
| **58643** | 3 | 0.309 | 7.85 | 0.012 | 0.30 |

Mutual capacitance: 39 pF/ft (128 pF/m)
Ground capacitance: 69 pF/ft (226.4 pF/m)

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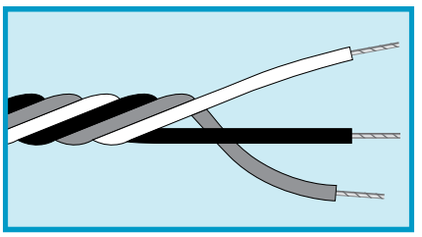
# Communication and Control

## 200 V Unshielded and Shielded, Multiconductor PVC, PVC Hi-Fi and Stereo Cable



### Operating Temperature

- -20°C to +80°C

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Conductors twisted in an extra tight lay

### Availability

100 ft (30.5 m)
1000 ft (305 m)

**32 AWG (0.03 mm²)**

Stranding: 7/40 (7 x 0.08 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | |
|---|---|---|---|
| | | Inch | mm |
| **1101** | 3 | 0.063 | 1.60 |
| **1102** | 4 | 0.072 | 1.83 |

**30 AWG (0.05 mm²)**

Stranding: 7/38 (7 x 0.10 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | |
|---|---|---|---|
| | | Inch | mm |
| **1115** | 2 | 0.064 | 1.63 |
| **1116** | 3 | 0.070 | 1.78 |

## Miniature Shielded Cable

### Conductor Color Coding

- 1 Black, 2 Red, 3 White, 4 Green

### Materials

- Stranded tinned copper conductors
- Color-coded PVC insulation
- Tinned copper braid shield, 80% coverage
- Clear PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1120** | 2 | 0.115 | 2.92 | 0.010 | 0.25 |
| **1121** | 3 | 0.120 | 3.05 | 0.010 | 0.25 |
| **1122** | 4 | 0.130 | 3.30 | 0.010 | 0.25 |

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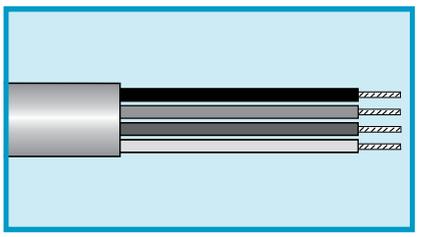
# Communication and Control

## 150 V Unshielded Multiconductor PP, PVC Silver Satin Oval Telephone Cable



### Temperature Rating

- -20°C to +60°C

### Conductor Color Coding

- See table

### Materials

- Stranded bare copper conductors
- Polypropylene insulation
- Silver PVC jacket

### Availability

328 ft (100 m), box
1000 ft (305 m), box

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.009 (0.23 mm)

| Part No. | Conductors | Nominal Outer Dimension | | Jacket Thickness | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **1604** | 4 | 0.090 x 0.190 | 2.28 x 4.83 | 0.020 | 0.51 |
| **1606** | 6 | 0.090 x 0.270 | 2.28 x 6.85 | 0.024 | 0.61 |
| **1608** | 8 | 0.090 x 0.350 | 2.28 x 8.89 | 0.024 | 0.61 |

### Conductor Color Coding

| Conductor No. | 1604 | 1606 | 1608 |
|---|---|---|---|
| 1 | Black | White | Slate |
| 2 | Red | Black | Orange |
| 3 | Green | Red | Black |
| 4 | Yellow | Green | Red |
| 5 | | Yellow | Green |
| 6 | | Blue | Yellow |
| 7 | | | Blue |
| 8 | | | Brown |

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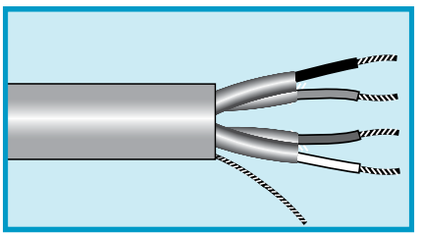
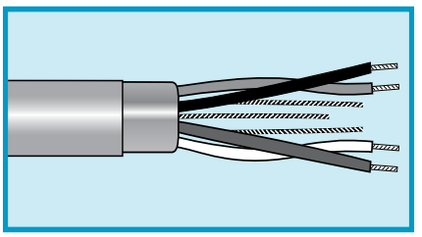
# Communication and Control

## 300 V Individually Foil Shielded Pairs or Overall Foil Shielded, Multipair, FPP, PVC





**UL AWM 2490, 2493, 2668**
**VW-1**
**UL CM**
**CSA CMG FT4**

### Operating Temperature

- -20°C to +75°C (CM)
- -20°C to +60 (AWM, CMG)

### Conductor Color Coding

- Chart K (page 529)

### Materials

- Solid or stranded tinned copper conductors
- Foam polypropylene insulation
- Individual aluminum/polyester foil shield, 25% overlap min. Foil facing inward
  Stranded tinned copper drain wire, 24 AWG (0.23 mm²), 7/32 (7 x 0.20 mm)
- Slate PVC jacket (unless otherwise noted)

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

### Individually Foil Shielded Pairs

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.023 (0.58)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **6073C** | 3 | 0.374 | 9.50 | 0.048 | 1.22 | 2493 |
| **6076C** | 6 | 0.483 | 12.27 | 0.048 | 1.22 | 2493 |
| **6079C** | 9 | 0.597 | 15.16 | 0.065 | 1.65 | 2493 |
| **6079/11C** | 11 | 0.643 | 16.33 | 0.065 | 1.65 | 2493 |
| **6079/12C** | 12 | 0.663 | 16.84 | 0.065 | 1.65 | 2493 |
| **6079/15C** | 15 | 0.719 | 18.26 | 0.065 | 1.65 | 2493 |
| **6079/27C** | 27 | 0.962 | 24.43 | 0.087 | 2.21 | 2490 |

Characteristic impedance: 115 ohms
Mutual capacitance: 12 pF/ft (41 pF/m)

### Overall Foil Shield

**22 AWG (0.32 mm²)**

Stranding: Solid
Insulation thickness: 0.023 (0.58)

| Part No. | Pairs | Nominal Diameter | | Jacket Thickness | | AWM |
|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | |
| **6072C*** | 2 | 0.42 | 9.50 | 0.035 | 0.89 | 2668 |

Characteristic impedance: 150 ohms
Mutual capacitance: 8.8 pF/ft (28.9 pF/m)

*Black jacket.



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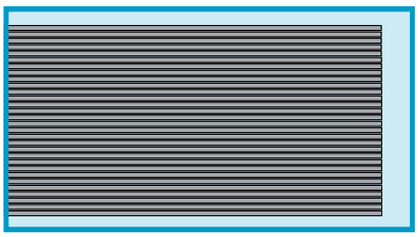
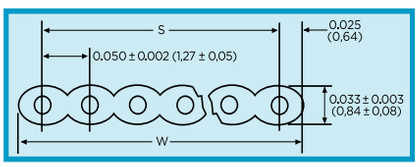
# Communication and Control

## 300 V Unshielded, Flat Cable, 0.050 (1.27 mm) Centerline






### UL AWM 2651, 20932 VW-1

#### Operating Temperature

- -20°C to +105°C

#### Materials

- Stranded tinned copper conductors
- Extruded PVC insulation (slate cable)
- Thermally bonded PVC with clear PVC covering (color-coded cable)

#### Color

- AWM 2651: slate cable, with red polarity stripe on leading edge
- AWM 20932: color-coded cable: brown, red, orange, yellow, green, blue, violet, slate, white, black . . . repeats

#### Electrical Characteristics

- Capacitance: 14 pF/ft (45.9 pF/m) nom. at 1 MHz
- Propagation delay: 1.4 ns/ft (4.6 ns/m) @ 0.18 ns risetime
- Impedance: 105 ohms (G-S-G configuration)
- Near-end crosstalk: 3.2%
- Far-end crosstalk: 11.5%
- Crosstalk measured on adjacent lines, 1 ns risetime, 10 ft (3.05 m) length

#### Availability

100 ft (30.5 m)

May contain multiple lengths

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | | Conductors | Width (W) | | Span (S) | |
|---|---|---|---|---|---|---|
| Slate (AWM 2651) | Color Coded (AWM 20932) | | Inch | mm | Inch | mm |
| **3580/9** | **3583/9** | 9 | 0.45 | 11.43 | 0.40 | 10.16 |
| **3580/10** | **3583/10** | 10 | 0.50 | 12.70 | 0.45 | 11.43 |
| **3580/14** | **3583/14** | 14 | 0.70 | 17.78 | 0.65 | 16.51 |
| **3580/15** | **3583/15** | 15 | 0.75 | 19.05 | 0.70 | 17.78 |
| **3580/16** | **3583/16** | 16 | 0.80 | 20.32 | 0.75 | 19.05 |
| **3580/20** | **3583/20** | 20 | 1.00 | 25.40 | 0.95 | 24.13 |
| **3580/24** | **3583/24** | 24 | 1.20 | 30.48 | 1.15 | 29.21 |
| **3580/25** | **3583/25** | 25 | 1.25 | 31.75 | 1.20 | 30.48 |
| **3580/26** | **3583/26** | 26 | 1.30 | 33.02 | 1.25 | 31.75 |
| **3580/34** | **3583/34** | 34 | 1.70 | 43.18 | 1.65 | 41.91 |
| **3580/37** | **3583/37** | 37 | 1.85 | 46.99 | 1.80 | 45.72 |
| **3580/40** | **3583/40** | 40 | 2.00 | 50.80 | 1.95 | 49.53 |
| **3580/50** | **3583/50** | 50 | 2.50 | 63.50 | 2.45 | 62.23 |
| **3580/60** | **3583/60** | 60 | 3.00 | 76.20 | 2.95 | 74.93 |
| **3580/64** | **3583/64** | 64 | 3.20 | 81.28 | 3.15 | 80.01 |

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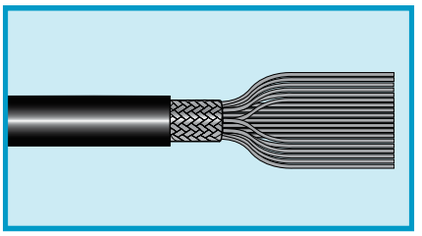
# Communication and Control

## 300 V Foil + Braid Shield, Round to Flat Flat Cable, 0.050 (1.27 mm) Centerline



**UL AWM 20381 (300 V)**
**UL CL2 (150 V)**

### Operating Temperature

- -20°C to +105°C

### Materials

- Stranded tinned copper conductors
- PVC insulation
- Foil + braid shield
  Aluminum/polyester
  Tinned copper braid
  (90% coverage)
- Black PVC jacket, 0.030 (0.08 mm) thick

### Configuration

- Flat cable termination area is 0.75 (19 mm) long and occurs every 1.5 (38 mm)

### Electrical Characteristics

- Capacitance: 24 pF/ft (78.7 pF/m) nom at 1 MHz
- Impedance: 70 ohms

### Availability

100 ft (30.5 m)
May contain multiple lengths

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nominal Diameter | | Nominal Width | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3585/25** | 25 | 0.34 | 8.64 | 1.20 | 30.48 |
| **3585/26** | 26 | 0.35 | 8.89 | 1.65 | 41.91 |
| **3585/40** | 40 | 0.40 | 10.20 | 1.95 | 49.53 |
| **3585/50** | 50 | 0.46 | 11.70 | 2.45 | 62.23 |

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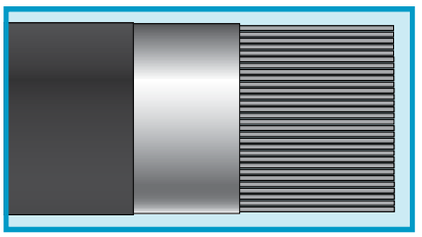
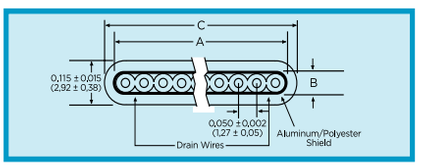
# Communication and Control

## 150 V, Jacketed, Foil Shield, Flat Cable, 0.050 (1.27 mm) Centerline






**UL AWM 2912**
**UL Type CL2**

### Operating Temperature

- -20°C to +105°C

### Materials

- Stranded tinned copper conductors
- Extruded slate PVC insulation with red polarity stripe
- Aluminum/polyester/aluminum foil shield
  Two 28 AWG (0.09 mm²) stranded tinned copper drain wires
- Slate PVC jacket, 0.030 (0.08 mm) thick

### Electrical Characteristics

- Capacitance: 20 pF/ft (65.6 pF/m) nom. at 1 MHz
- Propagation delay: 1.45 ns/ft (4.8 ns/m) at 0.18 ns risetime
- Impedance: 70 ohms
- Near-end crosstalk: 5.5%
- Far-end crosstalk: 1.6%
- Crosstalk measured on adjacent lines, 3.5 ns risetime

### Availability

100 ft (30.5 m)
May contain multiple lengths

**28 AWG (0.09 mm²)**

Stranding: 7/36 (7 x 0.13 mm)
Insulation thickness: 0.010 (0.25 mm)

| Part No. | Conductors | Nom. Core Width (A) | | Nom. Jacket Width (C) | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3590/10** | 10 | 0.50 | 12.70 | 0.57 | 14.48 |
| **3590/14** | 14 | 0.70 | 17.78 | 0.77 | 19.56 |
| **3590/16** | 16 | 0.80 | 20.32 | 0.87 | 22.10 |
| **3590/26** | 26 | 1.30 | 33.02 | 1.37 | 34.80 |

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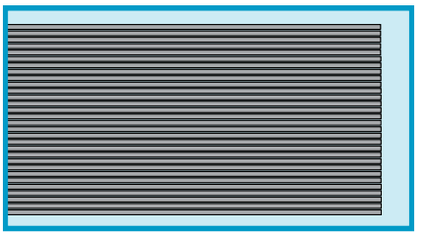
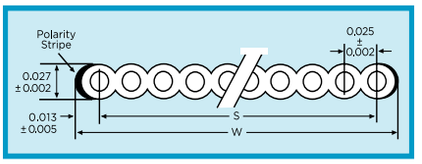
# Communication and Control

## 150 V Unshielded, Flat Cable, 0.025 (0.64 mm) Centerline






**UL AWM 2678 VW-1**

### Operating Temperature

- -20°C to +105°C

### Color

- Slate, with red polarity stripe on leading edge

### Materials

- Solid bare copper conductors
- PVC insulation

### Electrical Characteristics

- Capacitance:
  24.9 pF/ft (82 pF/m) nom.
  (G-S-G) at 1 kHz
  14.3 pF/ft (47 pF/m) nom.
  (G-S) at 1 kHz
- Propagation delay: 1.52 ns/ft (4.9 ns/m)
- Impedance:
  78 ohms (G-S-G single-ended configuration)
  131 ohms nom. (G-S differential configuration)
- Skew: 0.036 ns/ft (0.12 ns/m) max

### Availability

100 ft (30.5 m)

May contain multiple lengths

**30 AWG (0.05 mm²)**

Stranding: Solid
Insulation thickness: 0.013 (0.33 mm)

| Part No. | Conductors | Width (W) | | Span (S) | |
|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm |
| **3582/26** | 26 | 0.65 | 16.51 | 0.625 | 15.88 |
| **3582/40** | 40 | 1.00 | 25.40 | 0.975 | 24.76 |
| **3582/50** | 50 | 1.25 | 31.75 | 1.225 | 31.15 |
| **3582/60** | 60 | 1.50 | 38.10 | 1.475 | 37.46 |

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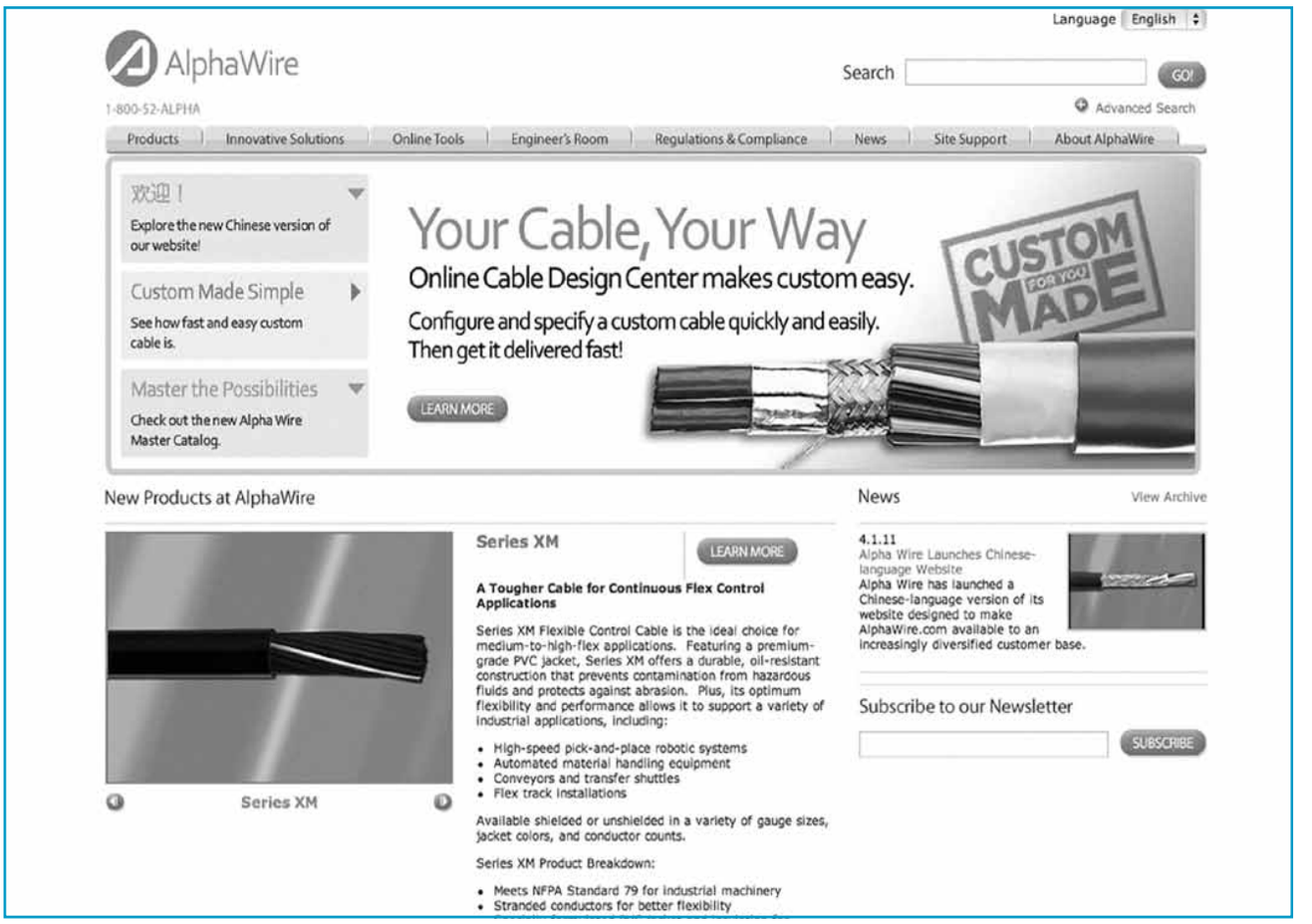


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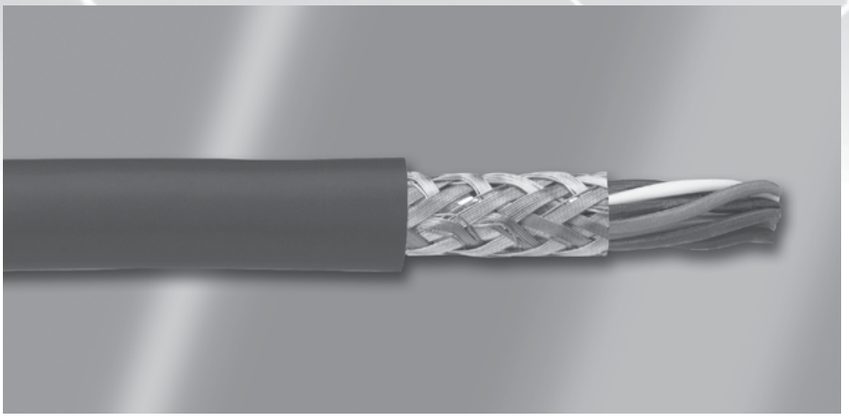
{ CONFESSION }

# We've taken a shine to working down on the farm

## (Our Solar Solution Set is a 24-hour per day workhorse)



For reliable, high-performance solar farms, Alpha Wire's Solar Solution Set helps engineers and installers create reliable, durable solar systems. Our solar cables and photovoltaic wire are designed for the harsh environments of solar energy applications—the hot and cold of climate extremes, ozone and UV radiation, moisture, oil, and direct burial. Our specially formulated PVC jackets provide years of reliable service by withstanding the potential environments without failing or degrading.

Regardless of your panel-to-grid needs, we have the product to satisfy it. With wire and cable in a range of gauges and conductor counts, Alpha has the solar solution. Alpha also has the accessories, from flexible conduit to heat-shrink tubing, to help you manage the system for faster installation, easier maintenance, and reliable operation.

### Proven Performance, Superior Support

Alpha Wire's solar cables and photovoltaic wire are proven throughout the industry. Better still, we offer the fastest delivery so you can order what you need from our large in-stock inventory today and receive it tomorrow. To find the ideal solar cable and wire for your application, and to download our new Solar Power brochure, visit **www.alphawire.com**.

### A Full Range for Power and Control

**Solar Power Solution Set**

- Photovoltaic wire
- Multiconductor solar cable
- Series M and Series P control cables
- Solid bus bar wires
- FIT® heat-shrink tubing
- Slit-loom and PVC flex tubing

**Typical Applications**

- Panel monitoring and control
- Panel to junction box
- Panel to collector
- Collector to inverter
- Grounding
- Motor supply

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# Hook-Up Wire

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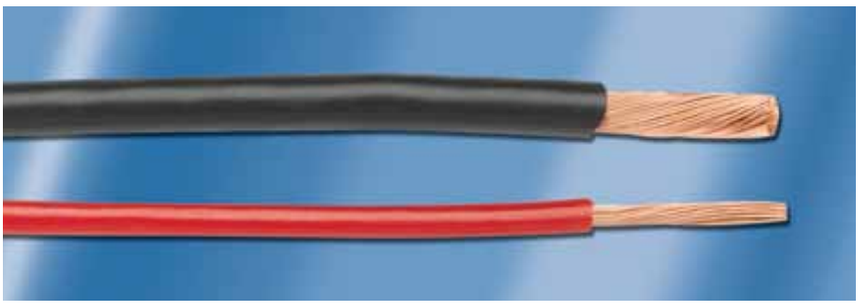
# Hook-Up Wire



The broad range of hook-up wire from Alpha means you will find the product exactly suited to your application—whether it's as straightforward as a control cabinet in a protected environment or as specialized as a machine tool on the factory floor, a high-temperature oven, or off-road construction equipment.

Our hook-up wire is available in a variety of insulations to meet your needs for temperature, ability to withstand wear and abrasion, electrical performance, or resistance to oil, solvents, and chemicals.

- **Stranded and solid copper conductors, bare or tinned, with other platings available for special application needs**
- **Broad range of insulations**
- **Color-coded insulation for easy circuit identification**
- **UL, CSA, and Mil-spec compliance**
- **Convenient put-ups as short as 100 feet**
- **Excellent uniformity and low-fray design for easy handling, stripping, and termination**

**Choice of Insulations to Meet Temperature Range and Mechanical and Environmental Requirements**

| Insulation | Material | Temperature Range | Features |
|---|---|---|---|
| PVC | Polyvinyl chloride | -55°C to +105°C | General-purpose insulation<br>Good abrasion resistance<br>Excellent flame resistance |
| XL-PVC | Cross-linked PVC | -55°C to +105°C | Better abrasion and cut-through resistance than standard PVC<br>Improved temperature and solder iron resistance over standard PVC<br>Used in high-density wiring |
| mPPE | Modified polyphenylene ether | -40°C to +105°C | Excellent recyclability<br>Excellent abrasion and cut-through resistance<br>Superior dielectric properties for thinner walls than PVC—allows wires 45% smaller in diameter and 40% light in weight |
| PTFE | Polytetrafluoroethylene | -55°C to +200°C | High temperature<br>Chemically inert: excellent chemical and solvent resistance<br>Excellent electrical properties |
| XLPE | Cross-linked polyethylene | -55°C to +125°C | Higher temperature rating than PVC |
| Silicone | Silicone | -40°C to +150°C | High-voltage material<br>Excellent flexibility<br>Excellent dielectric strength and resistance to radiation, corona, and ozone |
| PDVF | Polyvinylidene fluoride | -40°C to +125°C | Widely used in wire wrap applications |
| ETFE | Ethylene tetrafluoroethylene | -70°C to +150°C | |
| TGGT | Teflon glass glass Teflon | +250°C | High-temperature applications<br>Chemically inert: excellent chemical and solvent resistance<br>Moisture resistant<br>Withstands mechanical abuse and repeated flexing |
| MG | Mica glass | +450°C | High-temperature applications, such as heat-treating furnaces, kilns, and food service equipment<br>Excellent thermal stability |



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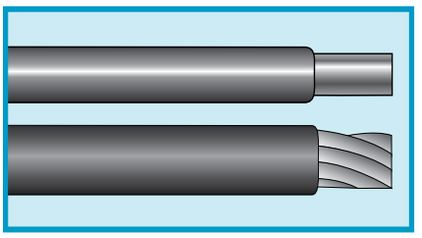
| Voltage | Insulation | Wire Range (AWG) | | Approvals | | Temperature Range |
|---|---|---|---|---|---|---|
| | | Stranded | Solid | UL | CSA | |
| **UL/CSA** | | | | | | |
| 150 | XL-PVC | 26 - 16 | — | | AWM I A/B FT1 | -55°C to +105°C |
| | | | | AWM 1429 | | -55°C to +80°C |
| | XLPE | 22 - 18 | — | AWM 3265 | I A/B FT1 | -55°C to +125°C |
| 300 | PVC | 30 - 16 | 24 - 16 | AWM 1569 | | -40°C to +105°C |
| | | | | AWM 1007 | | -40°C to +80°C |
| | | | | | TR-64 | -40°C to +90°C |
| | SR-PVC | 30 - 16 | — | AWM 1061 | I A/B FT1 | -10°C to +80°C |
| | XL-PVC | 26 - 16 | — | AWM 1430 | REW XL-PVC | -55°C to +105°C |
| | XLPE | 22 - 18 | — | AWM 3266 | CL 1252 XLPE | -55°C to +125°C |
| | XLPE | 22 - 16 | — | AWM 3199 | CL1054 | -55°C to +125°C |
| | PTFE | 24 - 8 | — | AWM 1180 | | -60°C to +200°C |
| 600 | PVC | 24 - 10 | 26 - 10 | AWM 1015, 1230 MTW, THW, TW | TEW-105 | -20°C to +105°C |
| | | 8 - 4/0 | — | AWM 1242, 1284 | | -20°C to +105°C |
| | mPPE | 28 - 10 | 18 - 14 | AWM 11028 | I A/B FT-1 | -40°C to +105°C |
| | XLPE | 18 - 10 | — | AWM 3271 | CL 1251 XLPE | -55°C to +125°C |
| | XLPE | 20 - 2/0 | — | AWM 3173, 3195, 3196, 3300 SIS Rated | | -55°C to +125°C |
| | ETFE | 24 - 4 | — | SAE AS22759/16 | | -55°C to +150°C |
| | PTFE | 26 - 8 | — | SAE AS22759/11 | | -55°C to +200°C |
| | Silicone | 22 - 4/0 | — | AWM 3212, 3213, 3214 | AWM I A/B | -40°C to +150°C |
| 10,000+ | Silicone | 22 - 2 | — | AWM 3239 | | -40°C to +150°C |
| **Military** | | | | | | |
| 250 | PTFE | 32 - 22 | 30 - 26 | MIL-DTL-16878/6 (Type ET) | | -60°C to +200°C |
| 600 | XL-PVC | 26 - 16 | — | MIL-DTL-16878/1 (Type B) | | -55°C to +105°C |
| | PVC | 32 - 14 | — | MIL-DTL-16878/1 (Type B) | | -55°C to +105°C |
| | PVC | 14 - 8 | — | MIL-W-76 Type HW | | -20°C to +80°C |
| | PTFE | 30 - 10 | 26 - 18 | MIL-DTL-16878/4 (Type E) | | -60°C to +200°C |
| 1000 | PVC | 24 - 12 | 24 - 18 | MIL-DTL-16878/2 (Type C) | | -40°C to +80°C |
| | XLPE | 22 - 18 | — | MIL-DTL-16878/2 (Type C) | | -55°C to +105°C |
| | PTFE | 24 - 8 | — | MIL-DTL-16878/5 (Type EE) | | -60°C to +200°C |
| 3000 | XLPE | 18 - 10 | — | MIL-DTL-16878/1 (Type D) | | -55°C to +105°C |
| **Solar** | | | | | | |
| 1000/2000 | XLPE/PVC | 14 - 2 | — | UL 4703 PV Wire | RW-90 | -40°C to +90°C |
| 600/1000 | LSZH/LSZH | 14 - 2 | — | UL 4703 PV Wire TÜV 2 PFG 1169 | — | -40°C to +90°C |
| **Wire Wrap** | | | | | | |
| | PVDF | — | 30 - 24 | AWM 1422, 1423 | | -40°C to +125°C |
| | ETFE | — | 30 - 24 | AWM 1516, 1523 | | -70°C to +150°C |
| **Ribbon Cable: 5 to 30 Conductors** | | | | | | |
| 150/300 | PVC | 26 - 22 | — | AWM 2713, 2555 | | -55°C to +80°C |
| 600/1000 | PVC | 26 - 22 | — | MIL-DTL-16878/1 and /2 (Types B & C) | | -55°C to +105°C |

# Hook-Up Wire

300 V, PVC



**UL AWM 1007, 1581, 1569**
**VW-1**
**CSA AWM I A/B FT1**
**CSA TR-64 FT1**

## Operating Temperature

- -40°C to +105°C (AWM 1569, CSA AWM)
- -40°C to +90°C (CSA TR-64)
- -40°C to +80°C (AWM 1007, 1581)

## Materials

- Stranded or solid tinned copper conductor
- PVC insulation

## Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Colors |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | |
| **3047** | 30 | 0.06 | 7/38 | 7 x 0.10 | 0.016 | 0.41 | 0.044 | 1.12 | Z1, 1 - 10 |
| **3048** | 28 | 0.09 | 7/36 | 7 x 0.13 | 0.016 | 0.41 | 0.047 | 1.19 | Z1, 1 - 10 |
| **3049** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.016 | 0.41 | 0.051 | 1.30 | Z1, 1 - 10 |
| **3050/1** | 24 | 0.20 | Solid | 1 x 0.51 | 0.016 | 0.41 | 0.052 | 1.32 | Z1, 1 - 10 |
| **3050** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.016 | 0.41 | 0.056 | 1.42 | Z1, 1 - 19, 28, 30 |
| **892407T†** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.016 | 0.41 | 0.056 | 1.42 | Z2, 0 - 9 |
| **892419†** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.016 | 0.41 | 0.057 | 1.45 | Z2, 0 - 9 |
| **3051/1** | 22 | 0.32 | Solid | 1 x 0.64 | 0.016 | 0.41 | 0.057 | 1.45 | Z1, 1 - 10 |
| **3051** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.016 | 0.41 | 0.062 | 1.57 | Z1, 1 - 19, 28, 30 |
| **892207T†** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.016 | 0.41 | 0.062 | 1.57 | Z2, 0 - 9 |
| **892219†** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.016 | 0.41 | 0.064 | 1.63 | Z2, 0 - 9 |
| **3053** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.016 | 0.41 | 0.069 | 1.75 | Z1, 1 - 19, 28, 30 |
| **892010T†** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.016 | 0.41 | 0.069 | 1.75 | Z2, 0 - 9 |
| **3053/1** | 20 | 0.52 | Solid | 1 x 0.81 | 0.016 | 0.41 | 0.064 | 1.63 | Z1, 1 - 10 |
| **892007†** | 20 | 0.56 | 7/28 | 7 x 0.32 | 0.016 | 0.41 | 0.070 | 1.78 | Z2, 0 - 9 |
| **892019†** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.016 | 0.41 | 0.072 | 1.83 | Z2, 0 - 9 |
| **3055** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.016 | 0.41 | 0.079 | 2.01 | Z1, 1 - 19, 28, 30 |
| **891816T†** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.016 | 0.41 | 0.079 | 2.01 | Z2, 0 - 9 |
| **3055/1** | 18 | 0.82 | Solid | 1 x 1.02 | 0.016 | 0.41 | 0.072 | 1.83 | Z1, 1 - 10 |
| **891819†** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.016 | 0.41 | 0.082 | 2.08 | Z2, 0 - 9 |
| **3057/1** | 16 | 1.31 | Solid | 1 x 1.29 | 0.016 | 0.41 | 0.083 | 2.11 | Z1, 1 - 10 |
| **3057** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.016 | 0.41 | 0.092 | 2.34 | Z1, 1 - 19, 28, 30 |
| **891441†** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.016 | 0.41 | 0.106 | 2.69 | Z2, 0 - 9 |
| **891265*†** | 12 | 3.30 | 65/30 | 65 x 0.25 | 0.016 | 0.41 | 0.125 | 3.18 | Z2, 0 - 9 |
| **891000*†** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.016 | 0.41 | 0.150 | 3.81 | Z2, 0 - 9 |

*UL AWM 1581 and 1569. All others UL AWM 1007 and 1569.
†CSA AWM I A/B FT-1.
"T" indicates topcoat conductors.

### Insulation Colors Z1

| | | | | | |
|---|---|---|---|---|---|
| 1 White | 5 Yellow | 9 Slate | 13 White/Green | 17 White/Orange | 29 Yellow/Green |
| 2 Black | 6 Blue | 10 Violet | 14 White/Yellow | 18 White/Slate | 30 Pink |
| 3 Red | 7 Brown | 11 White/Black | 15 White/Blue | 19 White/Violet | |
| 4 Green | 8 Orange | 12 White/Red | 16 White/Brown | 28 Green/Yellow | |

### Insulation Colors Z2

| | | |
|---|---|---|
| 0 Black | 4 Yellow | 8 Slate |
| 1 Brown | 5 Green | 9 White |
| 2 Red | 6 Blue | |
| 3 Orange | 7 Violet | |

These wires also available in 500 ft (152 m) put-ups.

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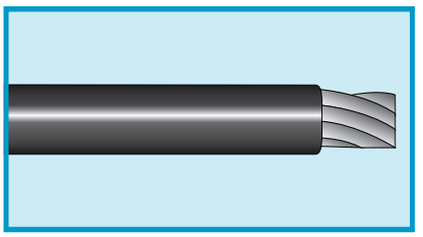
# Hook-Up Wire

## 300 V, Semirigid PVC



**UL AWM 1061 VW-1**
**CSA AWM I A/B FT1**

### Operating Temperature

- -10°C to +80°C

### Materials

- Stranded or solid tinned copper conductor
- Semirigid PVC insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Colors |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | |
| **422807** | 28 | 0.09 | 7/36 | 7 x 0.13 | 0.010 | 0.25 | 0.035 | 0.89 | Z2 |
| **422801** | 28 | 0.08 | Solid | 1 x 0.32 | 0.010 | 0.25 | 0.033 | 0.84 | Z2 |
| **422607** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.010 | 0.25 | 0.039 | 0.99 | Z2 |
| **422601** | 26 | 0.13 | Solid | 1 x 0.40 | 0.010 | 0.25 | 0.036 | 0.91 | Z2 |
| **3250** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.010 | 0.25 | 0.044 | 1.12 | Z1 |
| **3251** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.010 | 0.25 | 0.050 | 1.27 | Z1 |
| **422010** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.010 | 0.25 | 0.057 | 1.45 | Z2 |
| **3252** | 20 | 0.56 | 7/28 | 7 x 0.32 | 0.010 | 0.25 | 0.058 | 1.47 | Z1 |
| **422001** | 20 | 0.52 | Solid | 1 x 0.81 | 0.010 | 0.25 | 0.052 | 1.32 | Z2 |
| **421816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.010 | 0.25 | 0.067 | 1.70 | Z2 |
| **3253** | 18 | 0.90 | 7/26 | 7 x 0.40 | 0.010 | 0.25 | 0.068 | 1.73 | Z1 |
| **421626** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.010 | 0.25 | 0.080 | 2.03 | Z2 |
| **3254** | 16 | 1.43 | 7/24 | 7 x 0.51 | 0.010 | 0.25 | 0.080 | 2.03 | Z1 |

### Insulation Colors Z1

| | | |
|---|---|---|
| 1 White | 5 Yellow | 9 Slate |
| 2 Black | 6 Blue | 10 Violet |
| 3 Red | 7 Brown | |
| 4 Green | 8 Orange | |

### Insulation Colors Z2

| | | |
|---|---|---|
| 0 Black | 4 Yellow | 8 Slate |
| 1 Brown | 5 Green | 9 White |
| 2 Red | 6 Blue | |
| 3 Orange | 7 Violet | |

These wires also available in 500 ft (152 m) put-ups.

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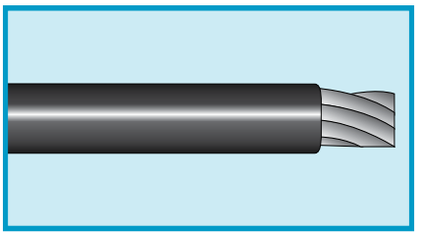
# Hook-Up Wire

600 V, PVC



**UL AWM 1015, 1028, 1230, 1231, 1232, 1283, 1284 VW-1**
**UL MTW, TW (14 to 8 AWG), THW (6 to 1/0 AWG)**
**CSA AWM I A/B FT1 and TEW-105**

## Operating Temperature

- -40°C to +105°C (AWM, TEW)
- -40°C to +90°C (MTW)
- -40°C to +75°C (THW)
- -40°C to +60°C (TW)

## Materials

- Stranded bare copper conductor
- PVC insulation

## Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | UL Style |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | |
| **461816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.111 | 2.82 | 1015, 1230 |
| **461626** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.124 | 3.15 | 1015, 1230 |
| **461419** | 14 | 2.07 | 19/0.0147 | 19 x 0.37 | 0.032 | 0.81 | 0.138 | 3.51 | 1015, 1230 |
| **461219** | 12 | 3.29 | 19/0.0185 | 19 x 0.47 | 0.032 | 0.81 | 0.157 | 3.99 | 1015, 1230 |
| **461265** | 12 | 3.29 | 65/0.010 | 65 x 0.25 | 0.031 | 0.79 | 0.153 | 3.89 | 1015, 1230 |
| **461019** | 10 | 5.26 | 19/0.0234 | 19 x 0.59 | 0.032 | 0.81 | 0.181 | 4.60 | 1015, 1230 |
| **460819** | 8 | 8.38 | 19/0.0295 | 19 x 0.75 | 0.047 | 1.19 | 0.242 | 6.15 | 1028, 1231 |
| **460619** | 6 | 13.32 | 19/0.0372 | 19 x 0.94 | 0.063 | 1.59 | 0.311 | 7.90 | 1283, 1232 |
| **460419** | 4 | 21.09 | 19/0.0469 | 19 x 1.19 | 0.063 | 1.59 | 0.360 | 9.14 | 1283, 1232 |
| **460219** | 2 | 33.63 | 19/0.0591 | 19 x 1.50 | 0.063 | 1.59 | 0.421 | 10.69 | 1283, 1232 |
| **460001** | 1/0 | 53.39 | 19/0.0745 | 19 x 1.89 | 0.078 | 1.98 | 0.529 | 13.44 | 1284, 1232 |

## Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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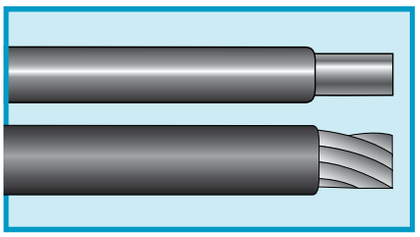
# Hook-Up Wire

600 V, PVC



**UL AWM 1015, 1028, 1230, 1231, 1232, 1283, 1284 VW-1**
**UL MTW (22 to 4/0 AWG)**
**UL THW (6 to 1/0 AWG)**
**CSA AWM I A/B FT1 and TEW 105**

### Operating Temperature

- -20°C to +105°C (AWM, TEW)
- -20°C to +90°C (MTW)
- -20°C to +75°C (THW)
- -20°C to +60°C (TW)

### Materials

- Stranded or solid tinned copper conductor
- PVC insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | UL Style | Colors |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | | |
| **782607*** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.032 | 0.81 | 0.083 | 2.11 | 1015, 1230 | Z2, 0 - 9 |
| **782401*** | 24 | 0.20 | Solid | 1 x 0.51 | 0.032 | 0.81 | 0.084 | 2.13 | 1015, 1230 | Z2, 0 - 9 |
| **3070*** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.032 | 0.81 | 0.088 | 2.24 | 1015 | Z1, 1 - 10, 28 |
| **782201** | 22 | 0.32 | Solid | 1 x 0.64 | 0.032 | 0.81 | 0.089 | 2.26 | 1015, 1230 | Z2, 0 - 9 |
| **782207T** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.032 | 0.81 | 0.094 | 2.39 | 1015, 1230 | Z2, 0 - 9 |
| **3071** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.032 | 0.81 | 0.094 | 2.39 | 1015 | Z1, 1 - 10, 28, 29 |
| **782010T** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.032 | 0.81 | 0.101 | 2.57 | 1015, 1230 | Z2, 0 - 9 |
| **3073** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.032 | 0.81 | 0.101 | 2.57 | 1015 | Z1, 1 - 10, 28 |
| **782001** | 20 | 0.52 | Solid | 1 x 0.81 | 0.032 | 0.81 | 0.096 | 2.44 | 1015, 1230 | Z2, 0 - 9 |
| **781816T** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.111 | 2.82 | 1015, 1230 | Z2, 0 - 9 |
| **3075** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.111 | 2.82 | 1015 | Z1, 1 - 10, 28, 29 |
| **781801** | 18 | 0.82 | Solid | 1 x 1.02 | 0.032 | 0.81 | 0.104 | 2.64 | 1015, 1230 | Z2, 0 - 9 |
| **781601** | 16 | 1.31 | Solid | 1 x 1.29 | 0.032 | 0.81 | 0.115 | 2.92 | 1015, 1230 | Z2, 0 - 9 |
| **3077** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.124 | 3.15 | 1015 | Z1, 1 - 10, 28, 29 |
| **781401** | 14 | 2.08 | Solid | 1 x 1.63 | 0.032 | 0.81 | 0.128 | 3.25 | 1015, 1230 | Z2, 0 - 9 |
| **3079** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.138 | 3.51 | 1015 | Z1, 1 - 10, 28, 29 |
| **3080** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.157 | 3.99 | 1015 | Z1, 1 - 4 |
| **781201** | 12 | 3.31 | Solid | 1 x 2.06 | 0.032 | 0.81 | 0.145 | 3.68 | 1015, 1230 | Z2, 0 - 9 |
| **781001** | 10 | 5.26 | Solid | 1 x 2.59 | 0.032 | 0.81 | 0.166 | 4.22 | 1015, 1230 | Z2, 0 - 9 |
| **3081** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.184 | 4.67 | 1015 | Z1, 1 - 4 |
| **788133** | 8 | 8.61 | 133/29 | 133 x 0.29 | 0.047 | 1.19 | 0.263 | 6.68 | 1028, 1231 | Z2, 0 - 9 |
| **786133** | 6 | 13.57 | 133/27 | 133 x 0.36 | 0.063 | 1.60 | 0.336 | 8.53 | 1283, 1232 | Z2, 0 - 9 |
| **784133** | 4 | 21.55 | 133/25 | 133 x 0.45 | 0.063 | 1.60 | 0.395 | 10.03 | 1283, 1232 | Z2, 0 - 9 |
| **782665** | 2 | 33.72 | 665/30 | 665 x 0.25 | 0.063 | 1.60 | 0.461 | 11.71 | 1283, 1232 | Z2, 0 - 9 |
| **782133** | 2 | 34.45 | 133/23 | 133 x 0.57 | 0.063 | 1.60 | 0.465 | 11.81 | 1283, 1232 | Z2, 0 - 9 |
| **781259** | 1 | 41.96 | 259/25 | 259 x 0.45 | 0.082 | 2.08 | 0.540 | 13.72 | 1284, 1232 | Z2, 0 - 9 |
| **781836** | 1 | 42.39 | 836/30 | 836 x 0.25 | 0.082 | 2.08 | 0.547 | 13.89 | 1284, 1232 | Z2, 0 - 9 |
| **780001** | 1/0 | 52.98 | 1045/30 | 1045 x 0.25 | 0.082 | 2.08 | 0.592 | 15.04 | 1284, 1232 | Z2, 0 - 9 |
| **780002** | 2/0 | 67.43 | 1330/30 | 1330 x 0.25 | 0.082 | 2.08 | 0.647 | 16.43 | 1284, 1232 | Z2, 0 - 9 |
| **780003** | 3/0 | 84.47 | 1666/30 | 1666 x 0.25 | 0.082 | 2.08 | 0.768 | 19.51 | 1284, 1232 | Z2, 0 - 9 |
| **780004** | 4/0 | 106.93 | 2109/30 | 2109 x 0.25 | 0.082 | 2.08 | 0.754 | 19.15 | 1284, 1232 | Z2, 0 - 9 |

T indicates top coat conductors.
*Not MTW

### Insulation Colors Z1

| | | |
|---|---|---|
| 1 White | 5 Yellow | 9 Slate |
| 2 Black | 6 Blue | 10 Violet |
| 3 Red | 7 Brown | 28 Green/Yellow |
| 4 Green | 8 Orange | 29 Yellow/Green |

### Insulation Colors Z2

| | | |
|---|---|---|
| 0 Black | 4 Yellow | 8 Slate |
| 1 Brown | 5 Green | 9 White |
| 2 Red | 6 Blue | |
| 3 Orange | 7 Violet | |

These wires also available in 500 ft (152 m) put-ups.

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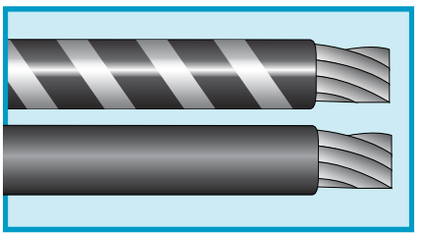
# Hook-Up Wire

600 V, PVC



**MIL-DTL-16878/1 (Type B)**
**MIL-W-76 Type LW**

## Operating Temperature

- -55°C to +105°C

## Materials

- Stranded or solid tinned copper conductor
- PVC insulation

## Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Colors |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | |
| **1850** | 32 | 0.03 | 7/40 | 7 x 0.08 | 0.010 | 0.25 | 0.029 | 0.74 | Z1, 1 - 6 |
| **1851*** | 30 | 0.06 | 7/38 | 7 x 0.10 | 0.010 | 0.25 | 0.032 | 0.81 | Z1, 1 - 6 |
| **1852*** | 28 | 0.09 | 7/36 | 7 x 0.12 | 0.010 | 0.25 | 0.035 | 0.89 | Z1, 1 - 10 |
| **1853*** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.010 | 0.25 | 0.039 | 0.99 | Z1, 1 - 19 |
| **172619** | 26 | 0.15 | 19/38 | 19 x 0.10 | 0.010 | 0.25 | 0.040 | 1.02 | Z2, 0 - 9 |
| **1854*** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.010 | 0.25 | 0.044 | 1.12 | Z1, 1 - 19 |
| **1854/19** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.010 | 0.25 | 0.045 | 1.14 | Z1, 1 - 19 |
| **1855** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.010 | 0.25 | 0.050 | 1.27 | Z1, 1 - 19 |
| **1855/19** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.010 | 0.25 | 0.052 | 1.32 | Z1, 1 - 19 |
| **1856*** | 20 | 0.56 | 7/28 | 7 x 0.32 | 0.010 | 0.25 | 0.058 | 1.47 | Z1, 1 - 19 |
| **1856/19** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.010 | 0.25 | 0.060 | 1.52 | Z1, 1 - 19 |
| **1857** | 18 | 0.90 | 7/26 | 7 x 0.40 | 0.010 | 0.25 | 0.068 | 1.73 | Z1, 1 - 19 |
| **1857/19** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.010 | 0.25 | 0.070 | 1.78 | Z1, 1 - 19 |
| **1858/19** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.010 | 0.25 | 0.076 | 1.93 | Z1, 1 - 19 |
| **1859/19** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.010 | 0.25 | 0.091 | 2.31 | Z1, 1 - 10 |

*Also meets MIL-W-76 Type LW.

### Insulation Colors Z1

| | | | | |
|---|---|---|---|---|
| 1 White | 5 Yellow | 9 Slate | 13 White/Green | 17 White/Orange |
| 2 Black | 6 Blue | 10 Violet | 14 White/Yellow | 18 White/Slate |
| 3 Red | 7 Brown | 11 White/Black | 15 White/Blue | 19 White/Violet |
| 4 Green | 8 Orange | 12 White/Red | 16 White/Brown | |

### Insulation Colors Z2

| | | |
|---|---|---|
| 0 Black | 4 Yellow | 8 Slate |
| 1 Brown | 5 Green | 9 White |
| 2 Red | 6 Blue | |
| 3 Orange | 7 Violet | |

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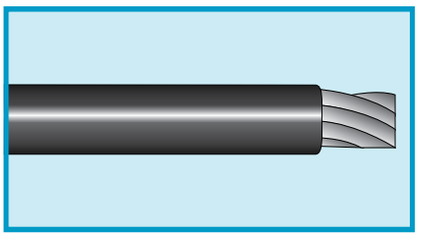
# Hook-Up Wire

600 V, PVC



**MIL-W-76 Type HW**

## Operating Temperature

- -20°C to +80°C

## Materials

- Stranded tinned copper conductor
- PVC insulation

## Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **1579** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.045 | 1.14 | 0.164 | 4.17 |
| **1651** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.045 | 1.14 | 0.183 | 4.65 |
| **1653** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.045 | 1.14 | 0.210 | 5.33 |
| **1655** | 8 | 8.61 | 133/29 | 133 x 0.28 | 0.045 | 1.14 | 0.259 | 6.58 |

## Insulation Colors

| |
|---|
| White |
| Black |
| Red |

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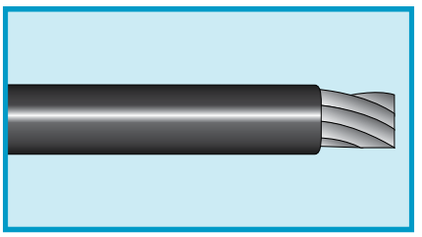
# Hook-Up Wire

600 V, PVC



**MIL-DTL-16878/2 (Type C)**
**UL VW-1**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **202207** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.017 | 0.43 | 0.064 | 1.63 |
| **202007** | 20 | 0.56 | 7/28 | 7 x 0.32 | 0.017 | 0.43 | 0.072 | 1.83 |
| **201807** | 18 | 0.90 | 7/26 | 7 x 0.40 | 0.017 | 0.43 | 0.082 | 2.08 |
| **201819** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.017 | 0.43 | 0.084 | 2.13 |
| **201619** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.019 | 0.47 | 0.093 | 2.36 |
| **201419** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.019 | 0.47 | 0.108 | 2.74 |
| **201219** | 12 | 3.08 | 19/25 | 19 x 0.45 | 0.019 | 0.47 | 0.127 | 3.23 |

## Operating Temperature

- -55°C to +105°C

## Materials

- Stranded tinned copper conductor
- PVC insulation

## Availability

100 ft (30.5 m)
1000 ft (305 m)

## Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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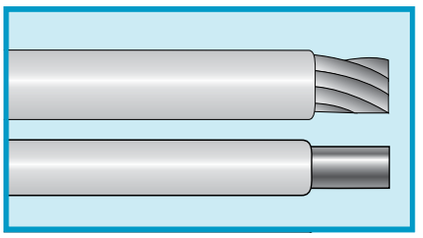
# Hook-Up Wire

## 600 V, PVC/Nylon



### UL THHN, THWN, TFN, TFFN

#### Operating Temperature

- -40°C to +90°C (THHN, TFN, TFFN)
- -40°C to +75°C (THWN)

#### Materials

- Stranded or solid bare copper conductor
- PVC/nylon insulation

#### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | PVC Insulation Thickness | | Nominal Diameter | | UL Type |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | |
| **541816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.015 | 0.38 | 0.086 | 2.18 | TFFN |
| **541801** | 18 | 0.82 | Solid | 1 x 1.02 | 0.015 | 0.38 | 0.079 | 2.01 | TFN |
| **541626** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.015 | 0.38 | 0.099 | 2.51 | TFFN |
| **541419** | 14 | 2.07 | 19/0.0147 | 19 x 0.37 | 0.015 | 0.38 | 0.113 | 2.87 | THHN, THWN |
| **541401** | 14 | 2.08 | Solid | 1 x 1.63 | 0.015 | 0.38 | 0.103 | 2.62 | THHN, THWN |
| **541219** | 12 | 3.29 | 19/0.0185 | 19 x 0.47 | 0.015 | 0.38 | 0.132 | 3.35 | THHN, THWN |
| **541201** | 12 | 3.31 | Solid | 1 x 2.06 | 0.015 | 0.38 | 0.120 | 3.05 | THHN, THWN |
| **541019** | 10 | 5.26 | 19/0.0234 | 19 x 0.59 | 0.020 | 0.51 | 0.166 | 4.22 | THHN, THWN |
| **541001** | 10 | 5.26 | Solid | 1 x 2.59 | 0.020 | 0.51 | 0.141 | 3.58 | THHN, THWN |
| **540819** | 8 | 8.38 | 19/0.0295 | 19 x 0.75 | 0.030 | 0.76 | 0.219 | 5.56 | THHN, THWN |
| **540619** | 6 | 13.32 | 19/0.0372 | 19 x 0.94 | 0.030 | 0.76 | 0.257 | 6.53 | THHN, THWN |
| **540419** | 4 | 21.09 | 19/0.0469 | 19 x 1.19 | 0.040 | 1.02 | 0.329 | 8.36 | THHN, THWN |
| **540219** | 2 | 33.63 | 19/0.0591 | 19 x 1.50 | 0.040 | 1.02 | 0.390 | 9.91 | THHN, THWN |
| **540001** | 1/0 | 53.39 | 19/0.0745 | 19 x 1.89 | 0.050 | 1.27 | 0.488 | 12.40 | THHN, THWN |

#### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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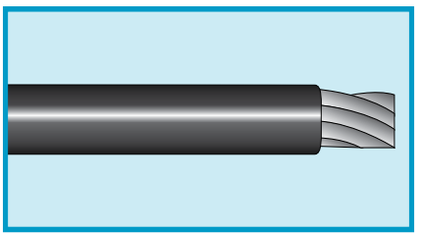
# Hook-Up Wire

600 V, PVC/Nylon



**MIL-DTL-16878/17 (Type B/N)**

## Operating Temperature

- -55°C to +105°C

## Materials

- Stranded tinned copper conductor
- PVC/nylon insulation

## Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | PVC Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **182607** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.010 | 0.25 | 0.045 | 1.14 |
| **182407** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.010 | 0.25 | 0.050 | 1.27 |
| **182419** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.010 | 0.25 | 0.051 | 1.30 |
| **182219** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.010 | 0.25 | 0.058 | 1.47 |
| **182019** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.010 | 0.25 | 0.066 | 1.68 |
| **181807** | 18 | 0.90 | 7/26 | 7 x 0.40 | 0.010 | 0.25 | 0.074 | 1.88 |
| **181819** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.010 | 0.25 | 0.076 | 1.93 |
| **181619** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.010 | 0.25 | 0.082 | 2.08 |
| **181419** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.010 | 0.25 | 0.097 | 2.46 |

### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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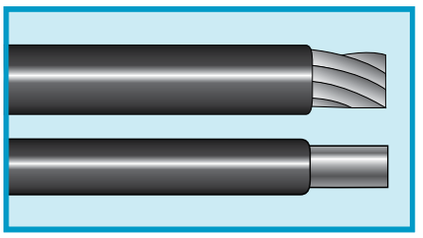
# Hook-Up Wire

1000 V, PVC



## MIL-W-76 Type MWP

### Operating Temperature

- -55°C to +90°C

### Materials

- Stranded or solid tinned copper conductor
- PVC insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **302407** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.016 | 0.41 | 0.056 | 1.42 |
| **302207** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.016 | 0.41 | 0.064 | 1.63 |
| **302201** | 22 | 0.32 | Solid | 1 x 0.64 | 0.016 | 0.41 | 0.057 | 1.45 |
| **302010** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.016 | 0.41 | 0.069 | 1.75 |
| **301816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.016 | 0.41 | 0.079 | 2.01 |
| **301626** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.016 | 0.41 | 0.092 | 2.34 |
| **301619** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.016 | 0.41 | 0.088 | 2.24 |
| **301441** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.016 | 0.41 | 0.106 | 2.69 |

### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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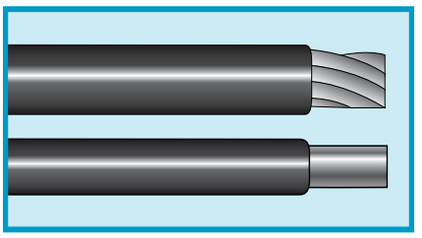
# Hook-Up Wire

1000 V, PVC



**MIL-W-76 B Type MW**

## Operating Temperature

- -40°C to +80°C

## Materials

- Stranded or solid tinned copper conductor
- PVC insulation

## Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Colors* |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | |
| **1550** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.016 | 0.41 | 0.056 | 1.42 | 1 - 19 |
| **1561/24** | 24 | 0.20 | Solid | 1 x 0.51 | 0.016 | 0.41 | 0.052 | 1.32 | 1 - 6 |
| **1551** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.016 | 0.41 | 0.062 | 1.57 | 1 - 19 |
| **1561** | 22 | 0.32 | Solid | 1 x 0.64 | 0.016 | 0.41 | 0.057 | 1.45 | 1 - 6 |
| **1553** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.016 | 0.41 | 0.069 | 1.75 | 1 - 19 |
| **1563** | 20 | 0.52 | Solid | 1 x 0.81 | 0.016 | 0.41 | 0.064 | 1.63 | 1 - 6 |
| **1555** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.016 | 0.41 | 0.079 | 2.01 | 1 - 19 |
| **1565** | 18 | 0.82 | Solid | 1 x 1.02 | 0.016 | 0.41 | 0.072 | 1.83 | 1 - 6 |
| **1557** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.016 | 0.41 | 0.092 | 2.34 | 1 - 19 |
| **1559** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.016 | 0.41 | 0.106 | 2.69 | 1 - 10 |
| **1560** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.016 | 0.41 | 0.125 | 3.18 | 1 - 10 |

### Insulation Colors

| | | | | |
|---|---|---|---|---|
| 1 White | 5 Yellow | 9 Slate | 13 White/ Green | 17 White/ Orange |
| 2 Black | 6 Blue | 10 Violet | 14 White/ Yellow | 18 White/ Slate |
| 3 Red | 7 Brown | 11 White/ Black | 15 White/Blue | 19 White/ Violet |
| 4 Green | 8 Orange | 12 White/Red | 16 White/ Brown | |

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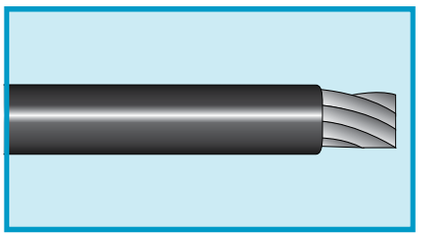
# Hook-Up Wire

## 600/150 V, Irradiated PVC Soldering Iron Resistant



**MIL-DTL-16878/1 (Type B) (600 V)**
**UL AWM 1429 (150 V)**
**CSA AWM I A/B FT1 (150 V)**

### Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +80°C (AWM, CSA)

### Materials

- Stranded tinned copper conductor
- Irradiated PVC insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **7053** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.010 | 0.25 | 0.039 | 0.99 |
| **7054** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.010 | 0.25 | 0.044 | 1.12 |
| **7054/19** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.010 | 0.25 | 0.045 | 1.14 |
| **7055** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.010 | 0.25 | 0.050 | 1.27 |
| **7055/19** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.010 | 0.25 | 0.052 | 1.32 |
| **7056** | 20 | 0.56 | 7/28 | 7 x 0.32 | 0.010 | 0.25 | 0.058 | 1.47 |
| **7056/19** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.010 | 0.25 | 0.060 | 1.52 |
| **7057** | 18 | 0.90 | 7/26 | 7 x 0.40 | 0.010 | 0.25 | 0.068 | 1.73 |
| **7057/19** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.010 | 0.25 | 0.070 | 1.78 |
| **7058/19** | 16 | 1.32 | 19/0.0117 | 19 x 0.30 | 0.010 | 0.25 | 0.076 | 1.93 |

### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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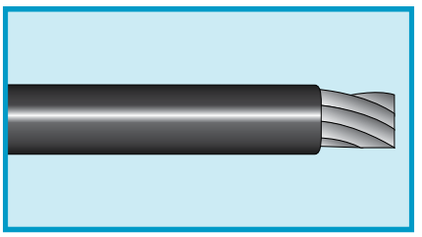
# Hook-Up Wire

## 1000/300 V, Irradiated PVC
## Soldering Iron Resistant



**MIL-DTL-16878/2 (Type C) (1000 V)**
**UL AWM 1430 (300 V)**
**CSA REW XLPVC FT1 (300 V)**

### Operating Temperature

- -55°C to +105°C

### Materials

- Stranded tinned copper conductor
- Irradiated PVC insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Colors |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | |
| **7130** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.016 | 0.41 | 0.056 | 1.42 | 1 - 10, 29 |
| **7131** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.016 | 0.41 | 0.062 | 1.57 | 1 - 10 |
| **7132** | 20 | 0.56 | 7/ 28 | 7 x 0.32 | 0.016 | 0.41 | 0.070 | 1.78 | 1 - 10 |
| **7133** | 18 | 0.89 | 7/26 | 7 x 0.40 | 0.016 | 0.41 | 0.080 | 2.03 | 1 - 10, 29 |
| **7134** | 16 | 1.32 | 19/0.0117 | 19 x 0.30 | 0.016 | 0.41 | 0.088 | 2.24 | 1 - 10, 29 |
| **7035*** | 14 | 2.07 | 19/0.0147 | 19 x 0.37 | 0.016 | 0.41 | 0.103 | 2.62 | 1 - 10, 29 |
| **7036*** | 12 | 3.29 | 19/0.0185 | 19 x 0.47 | 0.016 | 0.41 | 0.122 | 3.10 | 1 - 10, 29 |

*UL AWM 3317

### Insulation Colors

| | | |
|---|---|---|
| 1 White | 5 Yellow | 9 Slate |
| 2 Black | 6 Blue | 10 Violet |
| 3 Red | 7 Brown | 29 Yellow/Green |
| 4 Green | 8 Orange | |

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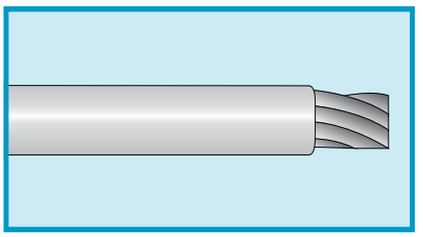
# Hook-Up Wire

## 3000/600 V, XLPE



**MIL-DTL-16878/4 (Type D) (3000 V)**
**UL AWM 3271 (600 V) VW-1**
**CSA CL 1251 XLPE (600 V)**

### Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +125°C (UL, CSA)

### Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **7044** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.111 | 2.82 |
| **7045** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.119 | 3.02 |
| **7046** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.138 | 3.51 |
| **7047** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.155 | 3.94 |
| **7048** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.184 | 4.67 |

**Insulation Colors**

| |
|---|
| White |
| Black |
| Red |

## 1000/300 V, XLPE

**MIL-DTL-16878/2 (Type C) (1000 V)**
**UL AWM 3266 (300 V) VW-1**
**CSA CL 1252 XLPE (300 V)**

### Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +125°C (UL, CSA)

### Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **7024** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.016 | 0.41 | 0.064 | 1.63 |
| **7025** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.016 | 0.41 | 0.072 | 1.83 |
| **7026** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.016 | 0.41 | 0.080 | 2.03 |

**Insulation Colors**

| |
|---|
| White |
| Black |
| Red |

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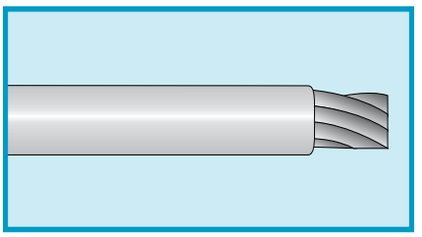
# Hook-Up Wire

600/150 V, XLPE



**MIL-DTL-16878/1 (Type B) (600 V)**
**UL AWM 3265 (150 V) VW-1**
**CSA AWM I A/B FT1 (150 V)**

## Operating Temperature

- -55°C to +105°C (MIL)
- -55°C to +125°C (UL, CSA)

## Materials

- Stranded tinned copper conductor
- Cross-linked polyolefin insulation

## Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **7012** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.011 | 0.28 | 0.054 | 1.37 |
| **7013** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.011 | 0.28 | 0.06 | 1.52 |
| **7014** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.011 | 0.28 | 0.070 | 1.78 |

## Insulation Colors

White
Black

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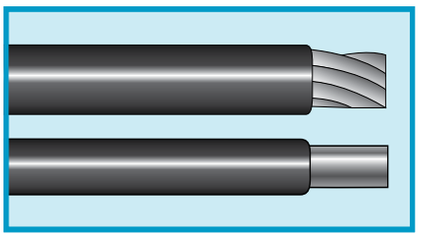
# Hook-Up Wire

600 V, XLPE



**UL AWM 3173, 3195, 3196**
**UL SIS**
**CSA AWM I A/B**
**CSA CL 1251 XLPE**

## Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

## Operating Temperature

- -20°C to +125°C

## Materials

- Stranded or solid tinned copper conductor
- Slate cross-linked polyethylene insulation

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | UL Style |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | |
| **M4030** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.031 | 0.79 | 0.110 | 2.79 | 3173 |
| **M4010** | 18 | 0.90 | 7/26 | 7 x 0.48 | 0.031 | 0.79 | 0.112 | 2.84 | 3173 |
| **M4001** | 18 | 0.82 | Solid | 1 x 1.02 | 0.031 | 0.79 | 0.105 | 2.67 | 3173 |
| **M4011** | 16 | 1.43 | 7/24 | 7 x 0.51 | 0.031 | 0.79 | 0.123 | 3.12 | 3173 |
| **M4002** | 16 | 1.31 | Solid | 1 x 1.29 | 0.031 | 0.79 | 0.115 | 2.92 | 3173 |
| **M4012** | 14 | 2.29 | 7/22 | 7 x 0.64 | 0.031 | 0.79 | 0.140 | 3.56 | SIS, 3173 |
| **M4003** | 14 | 2.08 | Solid | 1 x 1.63 | 0.031 | 0.79 | 0.130 | 3.30 | SIS, 3173 |
| **M4013** | 12 | 3.29 | 19/0.0185 | 19 x 0.47 | 0.031 | 0.79 | 0.160 | 4.06 | SIS, 3173 |
| **M4004** | 12 | 3.31 | Solid | 1 x 2.06 | 0.031 | 0.79 | 0.150 | 3.81 | SIS, 3173 |
| **M4014** | 10 | 5.28 | 19/0.0234 | 19 x 0.59 | 0.031 | 0.79 | 0.180 | 4.57 | SIS, 3173 |
| **M4005** | 10 | 5.26 | Solid | 1 x 2.59 | 0.031 | 0.79 | 0.170 | 4.32 | SIS, 3173 |
| **M4035** | 8 | 8.63 | 133/29 | 133 x 0.29 | 0.047 | 1.19 | 0.270 | 6.86 | SIS, 3195 |
| **M4015** | 8 | 8.38 | 19/0.0295 | 19 x 0.75 | 0.047 | 1.19 | 0.250 | 6.35 | SIS, 3195 |
| **M4036** | 6 | 13.6 | 133/27 | 133 x 0.36 | 0.062 | 1.57 | 0.340 | 8.64 | SIS, 3196 |
| **M4016** | 6 | 13.3 | 19/0.0372 | 19 x 0.94 | 0.062 | 1.57 | 0.320 | 8.13 | SIS, 3196 |
| **M4037** | 4 | 21.6 | 133/25 | 133 x 0.45 | 0.062 | 1.57 | 0.400 | 10.16 | SIS, 3196 |

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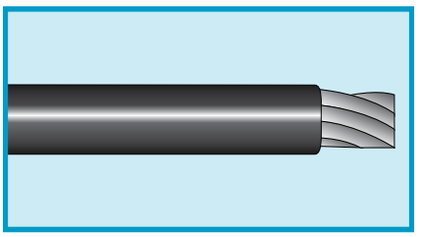
# Hook-Up Wire

600 V, XLPE



**UL AWM 3173**
**UL SIS**
**CSA AWM I A/B FT2**
**CSA CL1251 XLPE**

## Operating Temperature

- -40°C to +125°C (AWM)
- -40°C to +150°C (CSA CL)
- -40°C to +90°C (SIS)

## Materials

- Stranded tinned copper conductor
- Cross-linked polyethylene insulation

## Availability

500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **752010** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.031 | 0.79 | 0.099 | 2.51 |
| **751816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.031 | 0.79 | 0.109 | 2.77 |
| **751626** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.031 | 0.79 | 0.122 | 3.10 |
| **751441*** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.031 | 0.79 | 0.136 | 3.45 |
| **751265*** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.031 | 0.79 | 0.155 | 3.94 |
| **751000*** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.031 | 0.79 | 0.180 | 4.57 |
| **758133**** | 8 | 8.63 | 133/29 | 133 x 0.29 | 0.047 | 1.19 | 0.263 | 6.68 |

*UL SIS.
**UL AWM 3195 only.

### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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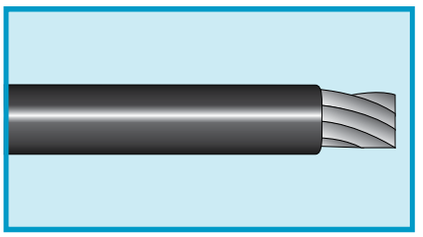
# Hook-Up Wire

50 V, XLPE



**SAE J1128 Type GXL**

## Operating Temperature

- -40°C to +125°C

## Materials

- Stranded bare copper conductor
- Cross-linked polyethylene insulation

## Availability

500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **631816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.023 | 0.58 | 0.093 | 2.36 |
| **631619** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.023 | 0.58 | 0.102 | 2.59 |
| **631419** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.023 | 0.58 | 0.113 | 2.87 |

## Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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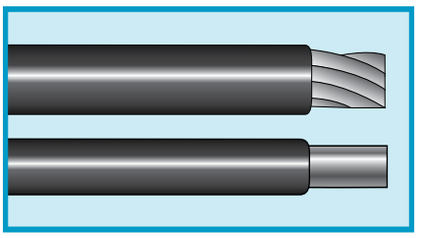
# Hook-Up Wire

250 V, PTFE



**MIL-DTL-16878/6 (Type ET)**
**UL VW-1**
**NEMA HP3**

## Operating Temperature

- -60°C to +200°C

## Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

## Availability

100 ft (30.5 m)
1000 ft (305 m)*
*May contain multiple lengths

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | NEMA HP3 Type | Colors |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | | |
| **33201** | 32 | 0.03 | Solid | 1 x 0.20 | 0.006 | 0.15 | 0.019 | 0.48 | — | Z2 |
| **33219** | 32 | 0.04 | 19/44 | 19 x 0.05 | 0.006 | 0.15 | 0.022 | 0.56 | — | Z2 |
| **2840/7** | 32 | 0.03 | 7/40 | 7 x 0.08 | 0.006 | 0.15 | 0.022 | 0.56 | ETXBAB | Z1 |
| **2841/7** | 30 | 0.06 | 7/38 | 7 x 0.10 | 0.006 | 0.15 | 0.024 | 0.61 | ETXBBB | Z1 |
| **2841/1** | 30 | 0.05 | Solid | 1 x 0.25 | 0.006 | 0.15 | 0.022 | 0.56 | ETXBBA | Z1 |
| **2842/7** | 28 | 0.09 | 7/36 | 7 x 0.12 | 0.006 | 0.15 | 0.027 | 0.69 | ETXBCB | Z1 |
| **2842/19** | 28 | 0.09 | 19/40 | 19 x 0.08 | 0.006 | 0.15 | 0.027 | 0.69 | ETXBCE | Z1 |
| **2842/1** | 28 | 0.08 | Solid | 1 x 0.32 | 0.006 | 0.15 | 0.025 | 0.64 | ETXBCA | Z1 |
| **2843/7** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.006 | 0.15 | 0.031 | 0.79 | ETXBDB | Z1 |
| **2843/19** | 26 | 0.15 | 19/38 | 19 x 0.10 | 0.006 | 0.15 | 0.031 | 0.79 | ETXBDE | Z1 |
| **2843/1** | 26 | 0.13 | Solid | 1 x 0.40 | 0.006 | 0.15 | 0.028 | 0.71 | ETXBDA | Z1 |
| **2844/7** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.006 | 0.15 | 0.036 | 0.91 | ETXBEB | Z1 |
| **2844/19** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.006 | 0.15 | 0.036 | 0.91 | ETXBEE | Z1 |
| **2845/7** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.006 | 0.15 | 0.042 | 1.07 | ETXBFB | Z1 |
| **2845/19** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.005 | 0.13 | 0.042 | 1.07 | ETXBFE | Z1 |
| **32007** | 20 | 0.56 | 7/28 | 7 x 0.32 | 0.006 | 0.15 | 0.050 | 1.27 | ETXBGB | Z2 |
| **32019** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.006 | 0.15 | 0.052 | 1.32 | ETXBGE | Z2 |

### Insulation Colors Z1

| | | |
|---|---|---|
| 1 White | 5 Yellow | 9 Slate |
| 2 Black | 6 Blue | 10 Violet |
| 3 Red | 7 Brown | |
| 4 Green | 8 Orange | |

### Insulation Colors Z2

| | | |
|---|---|---|
| 0 Black | 4 Yellow | 8 Slate |
| 1 Brown | 5 Green | 9 White |
| 2 Red | 6 Blue | |
| 3 Orange | 7 Violet | |

These wires also available in 500 ft (152 m) put-ups.

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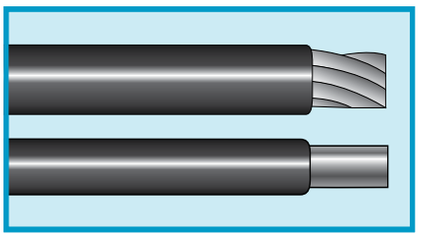
# Hook-Up Wire

## 600 V, PTFE



**MIL-DTL-16878/4 (Type E)**
**UL VW-1**
**NEMA HP3**

### Operating Temperature

- -60°C to +200°C

### Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)*
*May contain multiple lengths

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | NEMA HP-3 |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | |
| **13207** | 32 | 0.03 | 7/40 | 7 x 0.08 | 0.010 | 0.25 | 0.029 | 0.74 | EXBAB |
| **13001** | 30 | 0.05 | Solid | 1 x 0.25 | 0.010 | 0.25 | 0.030 | 0.76 | EXBBA |
| **12819** | 28 | 0.09 | 19/40 | 19 x 0.07 | 0.010 | 0.25 | 0.036 | 0.91 | — |
| **12819UL*** | 28 | 0.09 | 19/40 | 19 x 0.07 | 0.010 | 0.25 | 0.036 | 0.91 | — |
| **11807** | 18 | 0.90 | 7/26 | 7 x 0.40 | 0.010 | 0.25 | 0.068 | 1.73 | EXBHB |

*UL AWM 1212 and AWM 1213 and -55°C to +105°C temperature range.

### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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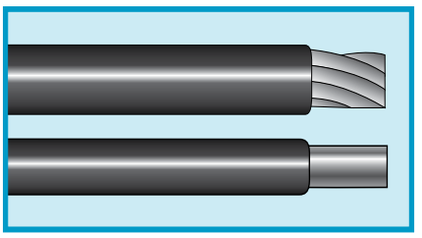
# Hook-Up Wire

## 600 V, PTFE



**MIL-DTL-16878/4 (Type E) (600 V)**
**UL AWM 1213***
**NEMA HP3**

### Operating Temperature

- -60°C to +200°C (MIL)
- -60°C to +105°C (UL)

### Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)†
†May contain multiple lengths

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | NEMA HP3 Type |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | |
| **5851** | 30 | 0.06 | 7/38 | 7 x 0.10 | 0.010 | 0.25 | 0.032 | 0.81 | EXBBB |
| **5852** | 28 | 0.09 | 7/36 | 7 x 0.13 | 0.010 | 0.25 | 0.035 | 0.89 | EXBCB |
| **5853** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.010 | 0.25 | 0.039 | 0.99 | EXBDB |
| **5853/19** | 26 | 0.15 | 19/38 | 19 x 0.10 | 0.010 | 0.25 | 0.039 | 0.99 | EXBDE |
| **2853/1** | 26 | 0.13 | Solid | 1 x 0.40 | 0.010 | 0.25 | 0.036 | 0.91 | EXBDA |
| **5854** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.010 | 0.25 | 0.044 | 1.12 | EXBEE |
| **5854/7** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.010 | 0.25 | 0.044 | 1.12 | EXBEB |
| **2854/1** | 24 | 0.20 | Solid | 1 x 0.51 | 0.010 | 0.25 | 0.040 | 1.02 | EXBEA |
| **5855** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.010 | 0.25 | 0.050 | 1.27 | EXBFE |
| **5855/7** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.010 | 0.25 | 0.050 | 1.27 | EXBFB |
| **2855/1** | 22 | 0.32 | Solid | 1 x 0.64 | 0.010 | 0.25 | 0.045 | 1.14 | EXBFA |
| **5856** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.010 | 0.25 | 0.058 | 1.47 | EXBGE |
| **5856/7** | 20 | 0.56 | 7/28 | 7 x 0.32 | 0.010 | 0.25 | 0.058 | 1.47 | EXBGB |
| **2856/1*** ** | 20 | 0.52 | Solid | 1 x 0.81 | 0.010 | 0.25 | 0.052 | 1.32 | EXBGA |
| **5857** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.010 | 0.25 | 0.069 | 1.75 | EXBHE |
| **2857/1*** ** | 18 | 0.82 | Solid | 1 x 1.02 | 0.011 | 0.27 | 0.061 | 1.55 | EXBHA |
| **5858** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.012 | 0.30 | 0.080 | 2.03 | EXBJE |
| **5859†** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.012 | 0.30 | 0.095 | 2.41 | EXBKE |
| **5859/12†** | 12 | 3.08 | 19/25 | 19 x 0.45 | 0.012 | 0.30 | 0.114 | 2.90 | EXBLE |
| **5859/10†** | 10 | 4.74 | 37/26 | 37 x 0.40 | 0.012 | 0.30 | 0.134 | 3.40 | EXBMG |

*Voltage rating not specified.
***White, black, red only.
†White only, not UL AWM 1213.

### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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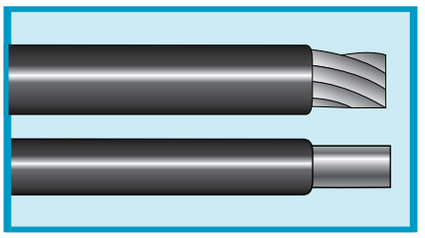
# Hook-Up Wire

## 1000/300 V, PTFE



**MIL-DTL-16878/5 (TYPE EE) (1000V)**
**UL AWM 1180 (300V)**
**NEMA HP3**

### Operating Temperature

- -60°C to +200°C

### Materials

- Stranded or solid silver-plated copper conductor
- PTFE insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)*
*May contain multiple lengths

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | NEMA HP3 Type |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | |
| **5874** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.015 | 0.37 | 0.054 | 1.37 | EEXBEE |
| **5875** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.014 | 0.36 | 0.060 | 1.52 | EEXBFE |
| **5876** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.014 | 0.36 | 0.068 | 1.73 | EEXBGE |
| **5877** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.015 | 0.37 | 0.079 | 2.01 | EEXBHE |
| **5878** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.016 | 0.41 | 0.089 | 2.26 | EEXBJE |
| **5879** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.017 | 0.43 | 0.106 | 2.69 | EEXBKE |
| **5879/10** | 10 | 4.74 | 37/26 | 37 x 0.40 | 0.017 | 0.43 | 0.145 | 3.68 | EEXBMG |
| **5879/12** | 12 | 3.08 | 19/25 | 19 x 0.45 | 0.017 | 0.43 | 0.125 | 3.18 | EEXBLE |
| **5879/8*** | 8 | 8.61 | 133/29 | 133 x 0.29 | 0.020 | 0.51 | 0.209 | 5.31 | EEXBNL |

*Not UL AWM 1180.

### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

Parts 5878, 5879, 5879/8, 5879/10, 5879/12: white only.

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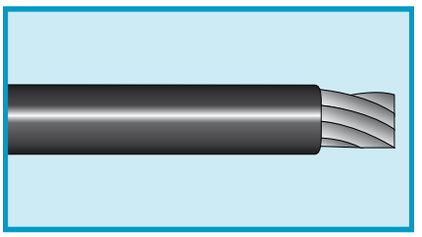
# Hook-Up Wire

1000 V, PTFE



| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | NEMA HP-3 |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | |
| **22807** | 28 | 0.09 | 7/36 | 7 x 0.13 | 0.015 | 0.38 | 0.045 | 1.14 | EEXBCB |
| **22407** | 24 | 0.23 | 7/32 | 7 x 0.20 | 0.015 | 0.38 | 0.054 | 1.37 | EEXBEB |
| **22207** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.014 | 0.36 | 0.058 | 1.47 | EEXBFB |
| **22007** | 20 | 0.56 | 7/28 | 7 x 0.32 | 0.015 | 0.38 | 0.068 | 1.73 | EXBGB |

**MIL-DTL-16878/5 (Type EE)**
**UL VW-1**
**NEMA HP3**

## Operating Temperature

- -60°C to +200°C

## Materials

- Stranded silver-plated copper conductor
- PTFE insulation

## Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)*
*May contain multiple lengths

## Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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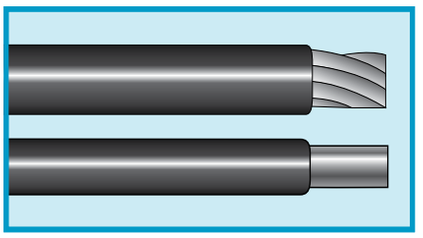
# Hook-Up Wire

## 600 V, ETFE or PTFE



**SAE AS22759/11**
**(MIL-DTL-22759/11)**
**SAE AS22759/16**
**(MIL-DTL-22759/16)**

### Operating Temperature

- -55°C to +200°C (PTFE)
- -55°C to +150°C (ETFE)

### Materials

- Stranded silver-plated copper conductors (SAE AS22759/11)
- Stranded tinned copper conductor (SAE AS22759/16)
- ETFE or PTFE insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)*
*May contain multiple lengths

**PTFE, SAE AS22759/11, -55°C to +200°C, Silver-Plated Copper Conductors**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **AT261938** | 26 | 0.15 | 19/38 | 19 x 0.10 | 0.010 | 0.25 | 0.038 | 0.97 |
| **AT241936** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.009 | 0.23 | 0.043 | 1.09 |
| **AT221934** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.009 | 0.23 | 0.049 | 1.24 |
| **AT201932** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.011 | 0.28 | 0.058 | 1.47 |
| **AT181930** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.010 | 0.25 | 0.068 | 1.73 |
| **AT161929** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.010 | 0.25 | 0.075 | 1.90 |
| **AT141927** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.011 | 0.27 | 0.090 | 2.29 |
| **AT121925** | 12 | 3.08 | 19/25 | 19 x 0.45 | 0.013 | 0.32 | 0.111 | 2.82 |
| **AT103726** | 10 | 4.74 | 37/26 | 37 x 0.40 | 0.015 | 0.38 | 0.139 | 3.53 |
| **AT813329** | 8 | 8.61 | 133/29 | 133 x 0.29 | 0.019 | 0.48 | 0.202 | 5.13 |

**ETFE, SAE AS22759/16, -55°C to +150°C, Tinned Copper Conductors**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **AZ241936** | 24 | 0.24 | 19/36 | 19 x 0.13 | 0.011 | 0.27 | 0.045 | 1.14 |
| **AZ221934** | 22 | 0.38 | 19/34 | 19 x 0.16 | 0.011 | 0.28 | 0.052 | 1.32 |
| **AZ201932** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.011 | 0.28 | 0.060 | 1.52 |
| **AZ181930** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.012 | 0.29 | 0.071 | 1.80 |
| **AZ161929** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.013 | 0.33 | 0.079 | 2.01 |
| **AZ141927** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.013 | 0.33 | 0.093 | 2.36 |
| **AZ123728** | 12 | 2.97 | 37/28 | 37 x 0.32 | 0.014 | 0.34 | 0.114 | 2.90 |
| **AZ103726** | 10 | 4.74 | 37/26 | 37 x 0.40 | 0.015 | 0.38 | 0.139 | 3.53 |
| **AZ813329** | 8 | 8.63 | 133/29 | 133 x 0.29 | 0.018 | 0.47 | 0.199 | 5.05 |
| **AZ413325** | 4 | 21.6 | 133/25 | 133 x 0.45 | 0.026 | 0.66 | 0.312 | 7.92 |

**Insulation Colors**

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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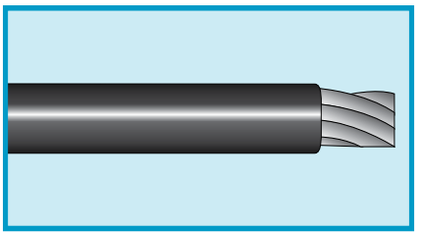
# Hook-Up Wire

## Wire Wrap, PVDF or ETFE



**UL 1422, 1423, 1516, 1523**
**VW-1**

### Operating Temperature

- -40°C to +125°C (PVDF)
- -70°C to +150°C (ETFE)
- +105°C (UL)

### Materials

- Silver-plated solid copper conductors
- PVDF or ETFE insulation

### Availability

100 ft (30.5 m) (ETFE)
1000 ft (305 m) (PVDF or ETFE)

| Part No. | Wire Size | | Insulation Thickness | | Nominal Diameter | | UL Style |
|---|---|---|---|---|---|---|---|
| | AWG | mm² | Inch | mm | Inch | mm | |
| **5951** | 30 | 0.05 | 0.005 | 0.11 | 0.019 | 0.51 | 1423 |
| **5952** | 28 | 0.08 | 0.006 | 0.14 | 0.024 | 0.61 | 1422 |
| **5953** | 26 | 0.13 | 0.006 | 0.14 | 0.027 | 0.69 | 1422 |
| **5954** | 24 | 0.20 | 0.005 | 0.11 | 0.030 | 0.76 | 1423 |

| Part No. | Wire Size | | Insulation Thickness | | Nominal Diameter | | UL Style |
|---|---|---|---|---|---|---|---|
| | AWG | mm² | Inch | mm | Inch | mm | |
| **1805** | 30 | 0.05 | 0.005 | 0.11 | 0.020 | 0.51 | 1516 |
| **1806*** | 28 | 0.08 | 0.006 | 0.14 | 0.024 | 0.61 | 1523 |
| **1807** | 26 | 0.13 | 0.006 | 0.14 | 0.027 | 0.69 | 1523 |
| **1808**** | 24 | 0.20 | 0.005 | 0.11 | 0.030 | 0.76 | 1516 |

*Not available in orange.
**Not available in violet or orange.

### Insulation Colors

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | |
| Green | Orange | |

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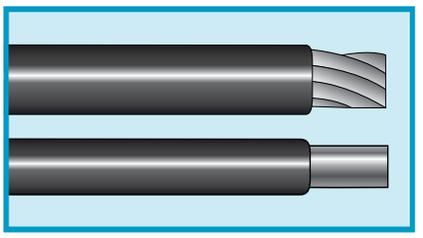
# Hook-Up Wire

## Test Lead Wire, EPR Rubber



| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Breakdown Voltage (RMS) | Working Voltage (RMS) |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | | |
| **1632** | 20 | 0.52 | 41/36 | 41 x 0.13 | 0.040 | 1.02 | 0.118 | 3.00 | 6000 | 1500 |
| **1635** | 20 | 0.52 | 41/36 | 41 x 0.13 | 0.047 | 1.19 | 0.132 | 3.35 | 12,000 | 3000 |
| **1636** | 18 | 0.83 | 65/36 | 65 x 0.13 | 0.045 | 1.14 | 0.137 | 3.48 | 20,000 | 5000 |

### Insulation Colors

Black
Red

### Operating Temperature

- -30°C to +90°C

### Voltage Rating

- See table

### Materials

- Stranded tinned copper conductors
- EPR rubber insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

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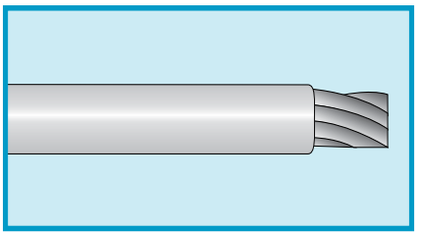
# Hook-Up Wire

## 600 V, Silicone Rubber



**UL AWM 3212, 3213, 3214**
**CSA AWM I A/B FT2**

### Operating Temperature

- -40°C to +150°C

### Materials

- Stranded tinned copper conductor
- White silicone rubber insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | UL AWM |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | |
| **392207** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.047 | 1.19 | 0.124 | 3.15 | 3212 |
| **392010** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.047 | 1.19 | 0.131 | 3.33 | 3212 |
| **391816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.047 | 1.19 | 0.141 | 3.58 | 3212 |
| **391626** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.047 | 1.19 | 0.154 | 3.91 | 3212 |
| **391441** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.047 | 1.19 | 0.168 | 4.27 | 3212 |
| **391265** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.047 | 1.19 | 0.187 | 4.75 | 3212 |
| **391000** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.047 | 1.19 | 0.212 | 5.38 | 3212 |
| **398133** | 8 | 8.61 | 133/29 | 133 x 0.29 | 0.063 | 1.60 | 0.295 | 7.49 | 3213 |
| **396133** | 6 | 13.57 | 133/27 | 133 x 0.36 | 0.063 | 1.60 | 0.339 | 8.61 | 3213 |
| **394133** | 4 | 21.55 | 133/25 | 133 x 0.45 | 0.063 | 1.60 | 0.395 | 10.03 | 3213 |
| **392259** | 2 | 33.15 | 259/26 | 259 x 0.40 | 0.063 | 1.60 | 0.460 | 11.68 | 3213 |
| **391259** | 1 | 41.96 | 259/25 | 259 x 0.45 | 0.078 | 1.98 | 0.532 | 13.51 | 3214 |
| **390001** | 1/0 | 53.10 | 259/24 | 259 x 0.51 | 0.078 | 1.98 | 0.578 | 14.68 | 3214 |
| **390002** | 2/0 | 67.43 | 1330/30 | 1330 x 0.25 | 0.078 | 1.98 | 0.639 | 16.23 | 3214 |
| **390004** | 4/0 | 106.82 | 2107/30 | 2107 x 0.25 | 0.078 | 1.98 | 0.837 | 21.26 | 3214 |

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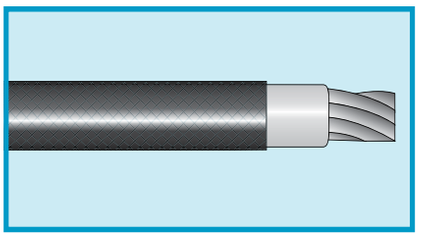
# Hook-Up Wire

## High-Temperature Appliance Wire
## 600 V, Silicone Rubber, Glass Braid



**UL AWM 3070, 3071, 3074, 3075**
**UL SF-2, SFF-2**
**CSA SEW-2, SEWF-2**

### Operating Temperature

- -40°C to +200°C (UL SF-2, CSA SEW-2)
- -40°C to +150°C (UL SFF-2, CSA SEWF-2)

### Materials

- Stranded tinned copper conductor
- Silicon rubber insulation
- Glass braid jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Approval | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | UL | CSA |
| **M4101** | 18 | 0.82 | 7/0.0152 | 7 x 0.39 | 0.032 | 0.81 | 0.124 | 3.15 | 3071, SF-2 | SEW-2 |
| **M4110** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.130 | 3.30 | 3070, SFF-2 | SEWF-2 |
| **M4102** | 16 | 1.31 | 7/0.0192 | 7 x 0.49 | 0.032 | 0.81 | 0.136 | 3.45 | 3071, SF-2 | SEW-2 |
| **M4111** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.140 | 3.56 | 3070, SFF-2 | SEWF-2 |
| **M4103** | 14 | 2.08 | 7/0.0242 | 7 x 0.61 | 0.032 | 0.81 | 0.152 | 3.86 | 3071, SF-2 | SEW-2 |
| **M4112** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.160 | 4.06 | 3070, SFF-2 | SEWF-2 |
| **M4104** | 12 | 3.08 | 19/25 | 19 x 0.45 | 0.032 | 0.81 | 0.166 | 4.22 | 3074, SF-2 | SEW-2 |
| **M4113** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.180 | 4.57 | 3070, SFF-2 | SEWF-2 |
| **M4105** | 10 | 4.92 | 19/23 | 19 x 0.57 | 0.048 | 1.22 | 0.221 | 5.61 | 3075, SF-2 | SEW-2 |

### Insulation Colors

White
Black

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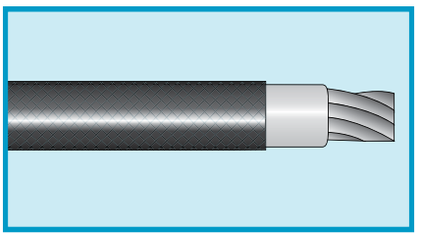
# Hook-Up Wire

## High-Temperature Type SRML Motor Lead 600 V, Silicone Rubber



**UL AWM 3101, 3231, 3278**
**CSA SEW-2, SEWF-2**

### Operating Temperature

- -40°C to +200°C (AWM 3231, SEW-2)
- -40°C to +150°C (AWM 3101, 3278, SEWF-2)

### Materials

- Stranded tinned copper conductor
- Silicon rubber insulation
- Black or white glass braid jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | UL AWM Style | CSA Type |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm2 | AWG | mm | Inch | mm | Inch | mm | | |
| **M4114** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.047 | 1.19 | 0.230 | 5.84 | 3101 | SEWF-2 |
| **M4115** | 8 | 8.29 | 133/.0111 | 133 x 0.28 | 0.062 | 1.57 | 0.305 | 7.75 | 3278 | SEWF-2 |
| **M4116** | 6 | 13.6 | 133/27 | 133 x 0.36 | 0.062 | 1.57 | 0.345 | 8.76 | 3278 | SEWF-2 |
| **M4117** | 4 | 21.1 | 133/.0177 | 133 x 0.45 | 0.062 | 1.57 | 0.400 | 10.16 | 3231 | SEW-2 |
| **M4118** | 2 | 33.5 | 133/.0223 | 133 x 0.57 | 0.062 | 1.57 | 0.470 | 11.94 | 3231 | SEW-2 |
| **M4120** | 1/0 | 53.5 | 259/.0202 | 259 x 0.51 | 0.085 | 2.16 | 0.605 | 15.37 | 3231 | SEW-2 |
| **M4121** | 2/0 | 68.8 | 259/.0229 | 259 x 0.58 | 0.085 | 2.16 | 0.660 | 16.76 | 3231 | SEW-2 |
| **M4122** | 3/0 | 85.3 | 259/.0255 | 259 x 0.65 | 0.085 | 2.16 | 0.715 | 18.16 | 3231 | SEW-2 |
| **M4123** | 4/0 | 107 | 259/.0286 | 259 x 0.73 | 0.085 | 2.16 | 0.785 | 19.94 | 3231 | SEW-2 |

### Insulation Colors

White
Black

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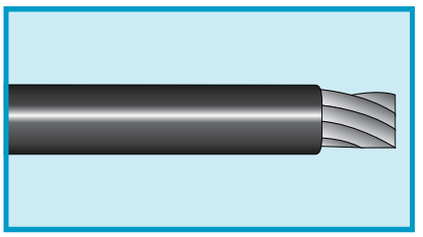
# Hook-Up Wire

## High Voltage, Silicone Rubber



### UL AWM 3239

#### Operating Temperature

- -40°C to +150°C

#### Materials

- Stranded tinned copper conductor
- Silicone rubber insulation

#### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**UL 3239**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | |
| **392297** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.097 | 2.46 | 0.224 | 5.69 | 40 kV |
| **392275** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.075 | 1.90 | 0.180 | 4.57 | 30 kV |
| **392262** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.062 | 1.57 | 0.154 | 3.91 | 25 kV |
| **392250** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.050 | 1.27 | 0.131 | 3.33 | 20 kV |
| **392245** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.045 | 1.14 | 0.120 | 3.05 | 15 kV |
| **392240** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.040 | 1.02 | 0.11 | 2.79 | 10 kV |
| **392097** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.097 | 2.46 | 0.231 | 5.87 | 40 kV |
| **392075** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.075 | 1.90 | 0.187 | 4.75 | 30 kV |
| **392062** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.062 | 1.57 | 0.161 | 4.09 | 25 kV |
| **392050** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.050 | 1.27 | 0.137 | 3.48 | 20 kV |
| **392045** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.045 | 1.14 | 0.127 | 3.23 | 15 kV |
| **392040** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.040 | 1.02 | 0.117 | 2.97 | 10 kV |
| **391897** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.097 | 2.46 | 0.241 | 6.12 | 40 kV |
| **391875** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.075 | 1.90 | 0.197 | 5.00 | 30 kV |
| **391862** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.062 | 1.57 | 0.171 | 4.34 | 25 kV |
| **391850** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.050 | 1.27 | 0.147 | 3.73 | 20 kV |
| **391845** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.045 | 1.14 | 0.137 | 3.48 | 15 kV |
| **391840** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.040 | 1.02 | 0.127 | 3.23 | 10 kV |
| **391699** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.150 | 3.81 | 0.360 | 9.14 | 50 kV |
| **391697** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.097 | 2.46 | 0.254 | 6.45 | 40 kV |
| **391675** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.075 | 1.90 | 0.210 | 5.33 | 30 kV |
| **391662** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.062 | 1.57 | 0.184 | 4.67 | 25 kV |
| **391650** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.050 | 1.27 | 0.160 | 4.06 | 20 kV |
| **391645** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.045 | 1.14 | 0.150 | 3.81 | 15 kV |
| **391640** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.040 | 1.02 | 0.140 | 3.56 | 10 kV |
| **391499** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.150 | 3.81 | 0.374 | 9.50 | 50 kV |
| **391497** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.097 | 2.46 | 0.268 | 6.81 | 40 kV |
| **391475** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.075 | 1.90 | 0.224 | 5.69 | 30 kV |
| **391462** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.062 | 1.57 | 0.198 | 5.03 | 25 kV |
| **391450** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.050 | 1.27 | 0.174 | 4.42 | 20 kV |
| **391445** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.045 | 1.14 | 0.164 | 4.17 | 15 kV |
| **391440** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.040 | 1.02 | 0.154 | 3.91 | 10 kV |

| White | Black | Red |
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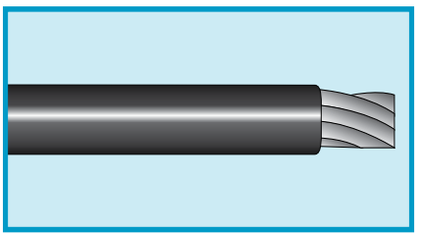
# Hook-Up Wire

## High Voltage, Silicone Rubber



### UL AWM 3239

#### Operating Temperature

- -40°C to +150°C

#### Materials

- Stranded tinned copper conductor
- Silicone rubber insulation

#### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

**UL 3239**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | |
| **391297** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.097 | 2.46 | 0.287 | 7.29 | 40 kV |
| **391275** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.075 | 1.90 | 0.243 | 6.17 | 30 kV |
| **391262** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.062 | 1.57 | 0.217 | 5.51 | 25 kV |
| **391250** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.050 | 1.27 | 0.193 | 4.90 | 20 kV |
| **391245** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.045 | 1.14 | 0.183 | 4.65 | 15 kV |
| **391099** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.150 | 3.81 | 0.418 | 10.62 | 50 kV |
| **391097** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.097 | 2.46 | 0.312 | 7.92 | 40 kV |
| **391045** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.045 | 1.14 | 0.208 | 5.28 | 15 kV |
| **391040** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.040 | 1.02 | 0.198 | 5.03 | 10 kV |
| **390897** | 8 | 8.61 | 133/29 | 133 x 0.28 | 0.097 | 2.46 | 0.363 | 9.22 | 40 kV |
| **390862*** | 8 | 8.61 | 133/29 | 133 x 0.28 | 0.062 | 1.57 | 0.293 | 7.44 | 25 kV |
| **390845** | 8 | 8.61 | 133/29 | 133 x 0.28 | 0.045 | 1.14 | 0.259 | 6.58 | 15 kV |
| **390662*** | 6 | 13.57 | 133/27 | 133 x 0.36 | 0.062 | 1.57 | 0.337 | 8.56 | 25 kV |
| **390645** | 6 | 13.57 | 133/27 | 133 x 0.36 | 0.045 | 1.14 | 0.303 | 7.70 | 15 kV |
| **390462*** | 4 | 21.55 | 133/25 | 133 x 0.45 | 0.062 | 1.57 | 0.393 | 9.98 | 25 kV |
| **390262*** | 2 | 34.45 | 259/26 | 259 x 0.40 | 0.062 | 1.57 | 0.463 | 11.76 | 25 kV |

*Not UL Recognized.

**Insulation Colors**

| White | Black | Red |
|---|---|---|



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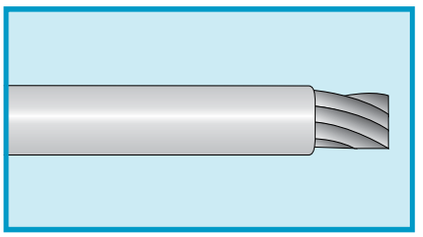
# Hook-Up Wire

## High Voltage, Silicone Rubber



**UL VW-1**

### Operating Temperature

- -40°C to +200°C

### Materials

- Stranded silver-plated copper conductor
- White silicone rubber insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Voltage |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | |
| **39X2220** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.050 | 1.27 | 0.130 | 3.30 | 20 kV |
| **39X2215** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.040 | 1.02 | 0.110 | 2.79 | 15 kV |
| **39X2205** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.020 | 0.51 | 0.070 | 1.78 | 5 kV |
| **39X2025** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.063 | 1.60 | 0.166 | 4.22 | 25 kV |
| **39X2020** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.055 | 1.40 | 0.150 | 3.81 | 20 kV |
| **39X2015** | 20 | 0.62 | 19/32 | 19 x 0.20 | 0.040 | 1.02 | 0.120 | 3.05 | 15 kV |
| **39X1825** | 18 | 0.96 | 19/30 | 19 x 0.25 | 0.055 | 1.40 | 0.160 | 4.06 | 25 kV |
| **39X1660** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.162 | 4.11 | 0.384 | 9.75 | 60 kV |
| **39X1645** | 16 | 1.23 | 19/29 | 19 x 0.28 | 0.125 | 3.18 | 0.306 | 7.77 | 45 kV |
| **39X1635** | 16 | 1.23 | 41/32 | 41 x 0.20 | 0.105 | 2.67 | 0.269 | 6.83 | 35 kV |
| **39X1620** | 16 | 1.33 | 41/32 | 41 x 0.20 | 0.053 | 1.33 | 0.164 | 4.17 | 20 kV |
| **39X1460** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.157 | 3.99 | 0.385 | 9.78 | 60 kV |
| **39X1260** | 12 | 3.08 | 19/25 | 19 x 0.45 | 0.178 | 4.51 | 0.445 | 11.30 | 60 kV |

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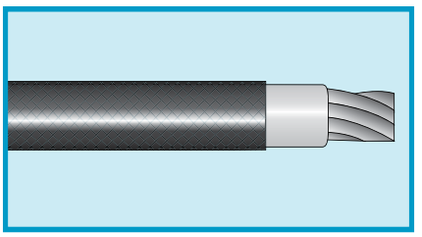
# Hook-Up Wire

## High Temperature
## 600 V, Mica-Glass, PTFE



**UL AWM 5107**
**CSA AWM I A/B**

### Operating Temperature

- -55°C to +538°C
- -55°C to +450°C (UL, CSA)

### Materials

- Stranded nickel-plated copper conductor
- Mica-glass tape insulation
- Tan PTFE-impregnated fiberglass jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **3112010** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.025 | 0.64 | 0.101 | 2.57 |
| **3111816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.025 | 0.64 | 0.111 | 2.82 |
| **3111626** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.025 | 0.64 | 0.124 | 3.15 |
| **3111441** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.025 | 0.64 | 0.138 | 3.51 |
| **3111265** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.025 | 0.64 | 0.157 | 3.99 |
| **3111000** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.030 | 0.76 | 0.206 | 5.23 |
| **3118133** | 8 | 8.63 | 133/29 | 133 x 0.28 | 0.030 | 0.76 | 0.260 | 6.60 |
| **3116133** | 6 | 13.6 | 133/27 | 133 x 0.36 | 0.030 | 0.76 | 0.304 | 7.72 |
| **3114133** | 4 | 21.6 | 133/25 | 133 x 0.36 | 0.030 | 0.76 | 0.361 | 9.17 |
| **3112133** | 2 | 34.4 | 133/23 | 133 x 0.57 | 0.035 | 0.89 | 0.444 | 11.28 |

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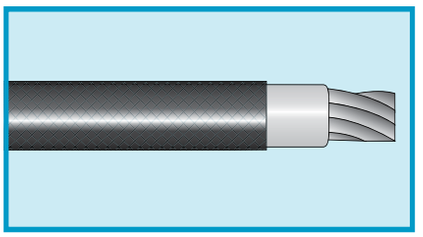
# Hook-Up Wire

## High Temperature
## 600 V, PTFE/Glass Braid



**UL AWM 5196**
**CSA AWM I A/B**

### Operating Temperature

- -55°C to +250°C

### Materials

- Stranded nickel-plated copper conductor
- White PTFE tape insulation
- Double fiberglass serve
- Tan PTFE-impregnated fiberglass jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **3131816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.016 | 0.41 | 0.109 | 2.77 |
| **3131626** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.016 | 0.41 | 0.122 | 3.10 |
| **3131441** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.016 | 0.41 | 0.136 | 3.45 |
| **3131265** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.016 | 0.41 | 0.155 | 3.94 |
| **3131000** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.016 | 0.41 | 0.180 | 4.57 |
| **3138133** | 8 | 8.61 | 133/29 | 133 x 0.29 | 0.016 | 0.41 | 0.232 | 5.89 |
| **3136133** | 6 | 13.6 | 133/27 | 133 x 0.36 | 0.016 | 0.41 | 0.315 | 8.00 |

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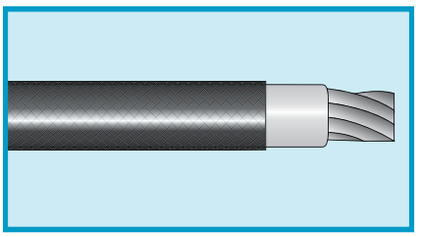
# Hook-Up Wire

## Type TGGT High-Temperature 600 V, PTFE/Glass Braid



**UL AWM 5196, 5251**
**CSA AWM 1 A/B**

### Operating Temperature

- -55°C to +250°C

### Materials

- Flexible nickel-covered stranded copper conductor
- White PTFE tape insulation
- Tan high-temperature-saturant-coated glass braid jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **M70562*** | 2 | 36.6 | 133/0.0223 | 133 x 0.57 | 0.020 | 0.51 | 0.445 | 11.30 |
| **M70563** | 1 | 41.1 | 259/0.0177 | 259 x 0.45 | 0.020 | 0.51 | 0.485 | 12.32 |
| **M70564** | 1/0 | 53.5 | 259/0.0202 | 259 x 0.51 | 0.020 | 0.51 | 0.535 | 13.59 |
| **M70565** | 2/0 | 68.8 | 259/0.0227 | 259 x 0.58 | 0.020 | 0.51 | 0.685 | 17.40 |
| **M70566** | 3/0 | 85.3 | 259/0.0255 | 259 x 0.65 | 0.020 | 0.51 | 0.645 | 16.38 |
| **M70567** | 4/0 | 107 | 259/0.0286 | 259 x 0.73 | 0.020 | 0.51 | 0.710 | 18.03 |

*UL AWM 5196.

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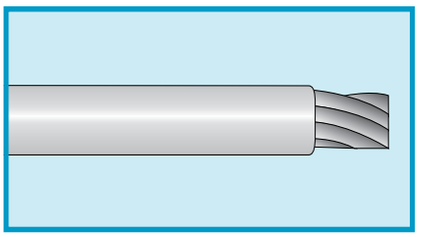
# Hook-Up Wire

## Welding Cable
## 600 V, EPDM



### Operating Temperature

- -50°C to +105°C

### Materials

- Stranded bare copper conductor
- Black EPDM rubber jacket

### Availability

Bulk, cut to length

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | | Current-Carrying Capacity | Voltage Drop* |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | A | V |
| **6112** | 6 | 13.5 | 266/30 | 266 x 0.25 | 0.060 | 1.52 | 0.320 | 8.13 | 75 | 3.30 |
| **6113** | 4 | 19.9 | 392/30 | 392 x 0.25 | 0.060 | 1.52 | 0.375 | 9.53 | 100 | 2.80 |
| **6115** | 2 | 32.6 | 644/30 | 644 x 0.25 | 0.060 | 1.52 | 0.440 | 11.18 | 200 | 3.60 |
| **6116** | 1 | 39.7 | 784/30 | 784 x 0.25 | 0.080 | 2.03 | 0.515 | 13.08 | 250 | 3.80 |
| **6117** | 1/0 | 52.0 | 1026/30 | 1026 x 0.25 | 0.080 | 2.03 | 0.550 | 13.97 | 300 | 3.60 |
| **6118** | 2/0 | 63.5 | 1254/30 | 1254 x 0.25 | 0.080 | 2.03 | 0.590 | 14.99 | 375 | 3.37 |
| **6119** | 3/0 | 81.8 | 1615/30 | 1615 x 0.25 | 0.080 | 2.03 | 0.660 | 16.76 | 450 | 3.40 |
| **6120** | 4/0 | 104 | 2056/30 | 2056 x 0.25 | 0.080 | 2.03 | 0.725 | 18.42 | 550 | 3.30 |

*Voltage drop per 100 ft (30.5 m) at 60°C.

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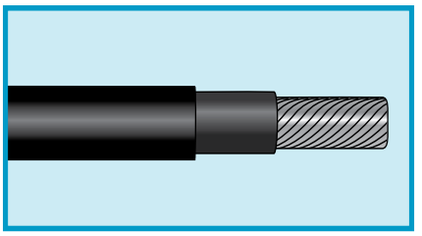
# Hook-Up Wire

## 1000/2000 V Photovoltaic Wire, XLPE, PVC



**UL 4703 PV VW-1 (2000 V)**
**UL Sunlight Resistant**

### Operating Temperature

- -40°C to +90°C

### Materials

- Stranded tinned copper conductor
- Black cross-linked polyethylene insulation
- Black PVC jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation/Jacket Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **PV1430** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.063/ 0.032 | 1.60/ 0.81 | 0.267 | 6.78 |
| **PV1230** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.063/ 0.032 | 1.60/ 0.81 | 0.286 | 7.26 |
| **PV1030** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.063/ 0.032 | 1.60/ 0.81 | 0.311 | 7.90 |
| **PV0830A*** | 8 | 8.51 | 168/30 | 168 x 0.25 | 0.078/ 0.032 | 1.98/ 0.81 | 0.390 | 9.91 |
| **PV0630A*** | 6 | 13.5 | 266/30 | 266 x 0.25 | 0.078/ 0.032 | 1.98/ 0.81 | 0.433 | 11.00 |
| **PV0430A*** | 4 | 21.3 | 420/30 | 420 x 0.25 | 0.078/ 0.032 | 1.98/ 0.81 | 0.491 | 12.47 |
| **PV0230A*** | 2 | 33.7 | 665/30 | 665 x 0.25 | 0.078/ 0.032 | 1.98/ 0.81 | 0.558 | 14.17 |

*UL 4703 PV only.



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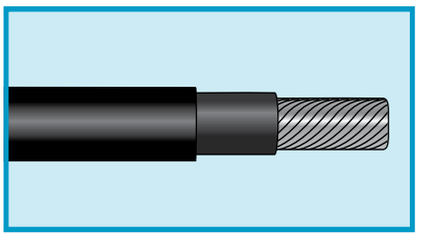
# Hook-Up Wire

## 600/1000 V Photovoltaic Wire, LSZH, LSZH



**UL 4703 PV VW-1 (600 V)**
**UL Sunlight Resistant**
**TÜV 2 PFG 1169 (1000 V)**
**IEC 60332-1**
**IEC 60754-1 and 60754-2**

### Operating Temperature

- -40°C to +125°C
- -40°C to +90°C (TÜV and UL)
- +120°C maximum temperature at conductor (TÜV)

### Materials

- Stranded tinned copper conductor
- Black cross-linked LSZH insulation
- Black cross-linked LSZH jacket

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Wire Size | | Stranding | | Insulation/Jacket Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **PVT1430** | 14 | 2.5 | 50/30 | 50 x 0.25 | 0.045/ 0.032 | 1.14/ 0.81 | 0.230 | 5.84 |
| **PVT1228** | 12 | 4.0 | 56/28 | 56 x 0.32 | 0.045/ 0.032 | 1.14/ 0.81 | 0.252 | 6.40 |
| **PVT1028** | 10 | 6.0 | 84/28 | 84 x 0.32 | 0.045/ 0.032 | 1.14/ 0.81 | 0.275 | 6.99 |
| **PVT0826** | 8 | 10 | 78/26 | 78 x 0.40 | 0.060/ 0.032 | 1.52/ 0.81 | 0.340 | 8.64 |
| **PVT0626** | 6 | 16 | 128/26 | 128 x 0.40 | 0.060/ 0.032 | 1.52/ 0.81 | 0.386 | 9.80 |
| **PVT0426** | 4 | 25 | 199/26 | 199 x 0.40 | 0.060/ 0.032 | 1.52/ 0.81 | 0.436 | 11.07 |
| **PVT0226** | 2 | 35 | 279/26 | 279 x 0.40 | 0.060/ 0.032 | 1.52/ 0.81 | 0.484 | 12.29 |

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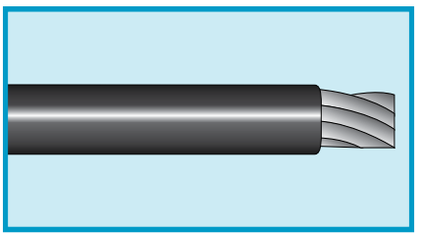
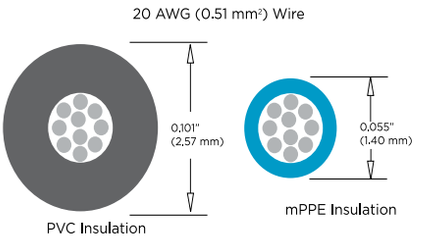
# Hook-Up Wire

## EcoWire™
## 600 V, mPPE



Innovative EcoWire combines increased performance with a minimized environmental impact. EcoWire's modified polyphenylene ether (mPPE) insulation is inherently lighter, tougher, and more durable than PVC. The result is UL AWM wire that is up to 45% smaller in diameter and 40% lighter than PVC-based counterparts, while offering 10x better abrasion resistance. Plus, the non-halogenated insulation contains no heavy metal pigments, allowing it to help manufacturers meet Waste Electrical and Electronic Equipment (WEEE) requirements.




**UL AWM 11028 VW-1**
**CSA AWM I A/B FT1**
**CE compliant**

### Operating Temperature

- -40°C to +105°C

### Materials

- Stranded or solid tinned copper conductors
- Modified polyphenylene ether insulation

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No. | Conductor Size | | Stranding | | Insulation Thickness | | Wire Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **6710** | 28 | 0.07 | 7/36 | 7 x 0.12 | 0.010 | 0.25 | 0.034 | 0.86 |
| **6711** | 26 | 0.14 | 7/34 | 7 x 0.16 | 0.010 | 0.25 | 0.038 | 0.97 |
| **6712** | 24 | 0.22 | 7/32 | 7 x 0.20 | 0.010 | 0.25 | 0.043 | 1.09 |
| **6713** | 22 | 0.35 | 7/30 | 7 x 0.25 | 0.010 | 0.25 | 0.049 | 1.24 |
| **6714** | 20 | 0.51 | 10/30 | 10 x 0.25 | 0.010 | 0.25 | 0.055 | 1.40 |
| **6715** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.010 | 0.25 | 0.067 | 1.70 |
| **6715S** | 18 | 0.82 | Solid | Solid | 0.010 | 0.25 | 0.059 | 1.50 |
| **6716** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.011 | 0.28 | 0.081 | 2.06 |
| **6717** | 14 | 2.09 | 41/30 | 41 x 0.25 | 0.011 | 0.28 | 0.096 | 2.44 |
| **6717S** | 14 | 2.08 | Solid | Solid | 0.011 | 0.28 | 0.086 | 2.18 |
| **6718** | 12 | 3.31 | 65/30 | 65 x 0.25 | 0.012 | 0.30 | 0.117 | 2.97 |
| **6719** | 10 | 5.37 | 105/30 | 105 x 0.25 | 0.012 | 0.30 | 0.144 | 3.66 |

| | | |
|---|---|---|
| White | Yellow | Slate |
| Black | Blue | Violet |
| Red | Brown | Green/Yellow |
| Green | Orange | |



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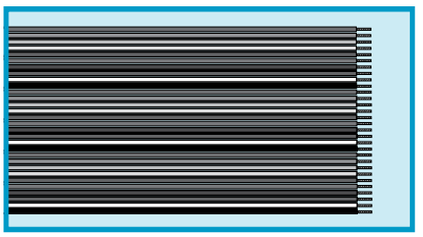
# Hook-Up Wire

## 150/600 V Ribbon Cable, PVC



**MIL-DTL-16878/1 (Type B) (600 V)**
**UL AWM 2713 (150 V) VW-1**

### Operating Temperature

- -20°C to +105°C (MIL)
- -20°C to +80°C (AWM)

### Conductor Color Coding

- Brown, red, orange, yellow, green, blue, violet, slate, white, black . . . repeats

### Materials

- Stranded tinned copper conductors
- Color-coded PVC insulation bonded into a flat configuration

### Availability

100 ft (30.5 m)

**26 AWG (0.14 mm²)**

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.039 (0.99 mm)

| Part No. | Conductors | Width | |
|---|---|---|---|
| | | Inch | mm |
| **3550** | 10 | 0.392 | 9.96 |
| **3550/14** | 14 | 0.546 | 13.87 |
| **3551** | 15 | 0.585 | 14.68 |
| **3551/16** | 16 | 0.624 | 15.85 |
| **3553** | 30 | 1.170 | 29.72 |

**24 AWG (0.23 mm²)**

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.044 (1.12 mm)

| Part No. | Conductors | Width | |
|---|---|---|---|
| | | Inch | mm |
| **3540/7** | 10 | 0.440 | 11.18 |
| **3541/7** | 15 | 0.660 | 16.76 |
| **3542/7** | 20 | 0.880 | 22.35 |

**24 AWG (0.24 mm²)**

Stranding: 19/36 (19 x 0.12 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.044 (1.12 mm)

| Part No. | Conductors | Width | |
|---|---|---|---|
| | | Inch | mm |
| **3540** | 10 | 0.440 | 11.18 |
| **3541** | 15 | 0.660 | 16.76 |
| **3542** | 20 | 0.880 | 22.35 |
| **3543** | 30 | 1.320 | 33.53 |

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.050 (1.27 mm)

| Part No. | Conductors | Width | |
|---|---|---|---|
| | | Inch | mm |
| **3530/7** | 10 | 0.500 | 12.70 |
| **3531/7** | 15 | 0.750 | 19.05 |
| **3532/7** | 20 | 1.000 | 25.40 |
| **3533/7** | 30 | 1.500 | 38.10 |

**22 AWG (0.38 mm²)**

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)
Cable height: 0.051 (1.29 mm)

| Part No. | Conductors | Width | |
|---|---|---|---|
| | | Inch | mm |
| **3530** | 10 | 0.510 | 12.95 |
| **3531** | 15 | 0.765 | 19.43 |
| **3532** | 20 | 1.020 | 25.91 |
| **3533** | 30 | 1.530 | 38.86 |

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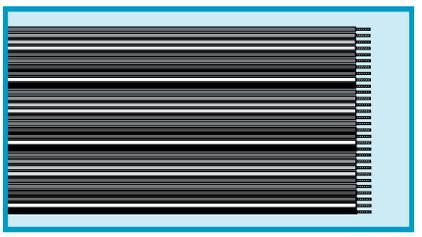
# Hook-Up Wire

## 300/1000 V Ribbon Cable, PVC



**MIL-DTL-16878/2 (Type C) (1000 V)**
**UL AWM 2555 (300 V)**

### Operating Temperature

- -20°C to +105°C (MIL)
- -20°C to +80°C (AWM)

### Conductor Color Coding

- Brown, red, orange, yellow, green, blue, violet, slate, white, black . . . repeats

### Materials

- Stranded tinned copper conductors
- Color-coded PVC insulation bonded into a flat configuration

### Availability

100 ft (30.5 m)

**22 AWG (0.35 mm²)**

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)
Cable height: 0.065 (1.65 mm)

| Part No. | Conductors | Width | |
|---|---|---|---|
| | | Inch | mm |
| **3505** | 5 | 0.310 | 7.87 |
| **3510** | 10 | 0.620 | 15.75 |
| **3515** | 15 | 0.930 | 23.62 |
| **3520** | 20 | 1.240 | 31.50 |

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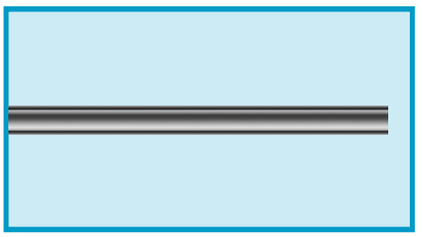
# Hook-Up Wire

## Bus Bar Wire



**CID AA-59551 Type S**
**ASTM B33**

### Material

- Electrolytic soft-drawn and annealed solid tin-plated copper conductor

### Availability

100 ft (30.5 m)
1000 ft (305 m)

| Part No | Wire Size | | | Diameter | |
|---|---|---|---|---|---|
| | AWG | CMA | mm² | Inch | mm |
| **938** | 38 | 16 | .008 | 0.004 | 0.10 |
| **936** | 36 | 25 | 0.01 | 0.005 | 0.13 |
| **934** | 34 | 40 | 0.02 | 0.006 | 0.15 |
| **932** | 32 | 64 | 0.03 | 0.008 | 0.20 |
| **299/3** | 30 | 100 | 0.05 | 0.010 | 0.25 |
| **299/2** | 28 | 159 | 0.08 | 0.013 | 0.33 |
| **299/1** | 26 | 253 | 0.12 | 0.016 | 0.41 |
| **299** | 24 | 404 | 0.20 | 0.020 | 0.51 |
| **298** | 22 | 640 | 0.32 | 0.025 | 0.64 |
| **297** | 20 | 1020 | 0.51 | 0.032 | 0.81 |
| **296** | 18 | 1620 | 0.82 | 0.040 | 1.02 |
| **295** | 16 | 2580 | 1.31 | 0.051 | 1.30 |
| **286** | 14 | 4110 | 2.08 | 0.064 | 1.63 |
| **289** | 12 | 6530 | 3.31 | 0.081 | 2.06 |
| **910** | 10 | 10380 | 5.26 | 0.102 | 2.59 |
| **908** | 8 | 16510 | 8.37 | 0.129 | 3.28 |
| **906** | 6 | 26250 | 13.3 | 0.162 | 4.11 |

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# Hook-Up Wire Kits

Alpha's hook-up wire kits contain an assortment of 100 ft (30.5 m) spools of hook-up wire suitable for military or UL/CSA applications. These kits have been designed for use by technicians, engineers, and designers in the R&D lab or maintenance shop. Each kit contains a stripping tool and five spools of hook-up wire in a unique, rack-mounted, transparent dispensing tube. The tube and rack system keeps hook-up wire neat, clean, and conveniently at hand.

## Operating Temperature

- -40°C to +80°C (HU-KIT-10, 30)
- -40°C to +105°C (HU-KIT-20, 40)

## Voltage Rating

- 1000 V (HU-KIT-10, 30)
- 300 V (HU-KIT-20, 40)

## Materials

- Stranded tinned copper conductor
- Color-coded PVC insulation

## Availability

1 box

| Part No. | Wire Type | Wire Size | | Colors | Wire Length (each order) | | Reorder No. |
|---|---|---|---|---|---|---|---|
| | | AWG | mm² | | Feet | Meters | |
| **HU-KIT-40** | UL AWM 1007<br>UL AWM 1569<br>CSA TR 64 | 24 | 0.23 | White<br>Black<br>Red<br>Green<br>Blue | 100 | 30.5 | 3050 |
| **HU-KIT-30** | MIL-W-76B Type MW | 24 | 0.23 | White<br>Black<br>Red<br>Green<br>Blue | 100 | 30.5 | 1550 |
| **HU-KIT-20** | UL AWM 1007<br>UL AWM 1569<br>CSA TR 64 | 22 | 0.36 | White<br>Black<br>Red<br>Green<br>Blue | 100 | 30.5 | 3051 |
| **HU-KIT-10** | MIL-W-76B Type MW | 22 | 0.36 | White<br>Black<br>Red<br>Green<br>Blue | 100 | 30.5 | 1551 |

Note: Each kit includes a cut-and-strip tool.

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# Dearborn™ Bulk Hook-Up Wire

We support your high-volume needs with large put-ups for a wide range of both military and UL style PVC hook-up wire.

Dearborn bulk wire has the same high quality as all Alpha wire and cable, but is available in put-ups of 5000 ft (1524 m) and above. Many styles are available in barrel packs as well.

### Bulk PVC wire options include:

- Stranded and solid conductors
- Bare or tinned copper
- Standard and semirigid PVC
- Variety of temperature ranges

**Popular Bulk Wire Styles**

| Style | Insulation | AWG Range | Temperature |
|---|---|---|---|
| **MIL-DTL-16878/1 (Type B)** | PVC | 32 – 14 | -55°C to +105°C |
| **MIL-DTL-16878/2 (Type C)** | PVC | 24 – 22 | -55°C to +105°C |
| **MIL-DTL-16878/3 (Type D)** | PVC | 16 | -20°C to +105°C |
| **MIL-W-76 Type MWP** | PVC | 24, 12 | -55°C to +90°C |
| **UL AWM 1007** | PVC | 24 - 10 | -20°C to +80°C |
| **UL AWM 1028** | PVC | 24 - 10 | -20°C to +105°C |
| **UL AWM 1061** | SR-PVC | 30 - 20 | -10°C to +80°C |
| **UL AWM 1231** | PVC | 24 - 10 | -20°C to +105°C |
| **UL AWM 1569** | PVC | 28 - 16 | -20°C to +105°C |
| **UL AWM 1581** | PVC | 28 - 16 | -20°C to +80°C |
| **UL MTW** | PVC | 20 – 10 | -20°C to +90°C |
| **UL TW** | PVC | 24 - 10 | -20°C to +60°C |

**For more styles and conductor options please contact your Alpha Wire Sales Representative.**


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# We think we're pretty tough

## (New EcoWire™ has 10x better abrasion and pinch resistance than PVC)

**Superior Performance for Sustainable Designs**

Tough wire doesn't have to be bulky or hard to recycle. Innovative EcoWire combines increased performance with a minimized environmental impact. EcoWire's modified polyphenylene ether (mPPE) insulation is inherently lighter, tougher, and more durable than PVC.

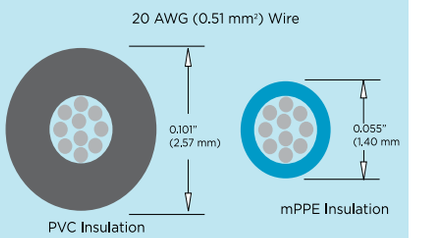
Meet Waste Electrical and Electronic Equipment (WEEE) requirements with EcoWire. Its nonhalogenated insulation contains no heavy metal pigments, so it is easily and 100% recyclable.

With sizes ranging from 28 to 10 AWG in a UL AWM 11028 style with a temperature range from -40°C to +105°C, EcoWire is the perfect hook-up wire where space savings, lighter weight, mechanical ruggedness, and recyclability are required. And it gives you greener performance in eleven insulation colors.

Learn more about EcoWire by visiting www.alphawire.com to download a brochure and white paper, obtain complete specifications, or order a sample.

**EcoWire Gives You More for Less**

- 10x superior abrasion resistance
- Up to 45% smaller diameter
- Up to 40% lighter weight
- UL VW-1 flammability rating
- 100% recyclable

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# Dearborn™ Marine

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# Dearborn™ Marine

## The Premier Choice for Marine Applications

For tough, seaworthy wire and cable, Alpha Wire's Dearborn brand of products delivers performance in the most challenging environments for electrical components and electronic systems, with the ever-present potential for corrosion and other harmful effects from moisture, salt, oil, and gases.

Whether you are building new pleasure or commercial watercraft or maintaining existing boats, our marine products will satisfy your most stringent requirements.

### Complete line for every marine application

From wiring of engines, batteries, and bilge pumps to cables for communications, instrumentation, and electronics, you will find the exact wire or cable you need. Cables are color-coded to meet boating industry standards.

### Marine wire

High-grade marine wire for the full spectrum of marine applications, including wiring of engines, batteries, and bilge pumps.

### Marine cable

A complete line of multi-conductor cables, designed specifically for marine environments. Ideally suited for multiple applications, including communi-cations, instrumentation, and electronics.

### Marine heat-shrink tubing

To protect cable terminations and provide a watertight connection, we offer marine grade heat-shrink tubing with an operating temperature range of –55°C to +130°C for protecting electrical connections, and spiral wrap and split ducts for managing and organizing wires and cables.

### Marine ready

Our cables meet various specifications to ensure regulatory compliance and seaworthiness:

- **UL Standard 1426: Electrical Cable for Boats**
- **SAE J378: Marine Propulsion Systems Wiring**
- **SAE J1127: Low-Voltage Battery Cables**
- **SAE J1128: Low-Voltage Primary Cables**
- **ABYC E-11-2008: Standard for AC and DC Electrical Systems on Boats**
- **ABYC E-10-2006: Storage Batteries**
- **USCG: Title 33, CFR 183 Subpart I, Section 183**

### Designed to perform

Dearborn marine wire and cable use corrosion-resistant annealed tinned copper conductors with Type 3 marine stranding for extra flexibility and service life. A choice of round or flat multiconductor cables means easier handling and routing.

- **Rugged PVC insulation and jackets, rated to 105°C**
- **Easy circuit identification with color-coded conductors**
- **Shielded cable available for EMI protection**
- **UL VW-1 flame retardant**
- **Convenient, easy to use packaging in lengths as low as 50 feet**
- **Resistant to oil, chemicals, solvents, and sea water**
- **Premium high-performance with tinned conductors**



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| The Premier Choice for Marine Applications | | | | |
|---|---|---|---|---|
| **Application** | **Configuration** | **No. of Conductors** | **Wire Gauge Range** | **Features** |
| Engine wiring | Flat (parallel) or round | 1 – 3 | 18 – 6 | Color-coded with white jackets |
| Battery | Round | 1 | 8 – 4/0 | Extra flexible stranding |
| Speaker cable | Round | 1 | 22 – 14 | Ripcord construction |
| Bonding cable | Round | 1 | 6 – 4 | Resists oil, fungus, chemicals, and heat<br>Retards electrolytic corrosion |
| Telephone cable | Round | 2 – 3 | 22 | High-density polyethylene insulation |
| Communications and control | Round | 2 – 7 | 18 – 16 | Shielded and unshielded |
| RFI shielded cable | Round | 2 – 3 | 18 – 14 | Foil shield, 100% coverage |
| Duplex shielded cable | Round | 2 | 16 – 10 | Foil + braid for maximum shielding |
| Bilge pump | Round | 3 | 18 – 14 | Water-resistant construction<br>Resistant to gasoline, oils, solvents, and salt water |
| Trailer cable | Flat (parallel) or round | 3 – 4 | 16 – 12 | See-through insulation for easier installation |

### Required Marine Wiring Color Codes

| Direct Current Systems, Under 50 Volts | |
|---|---|
| **Color** | **Use** |
| Green | Bonding |
| White or Black | Return, negative main |
| Red | Positive mains, particularly unfused |

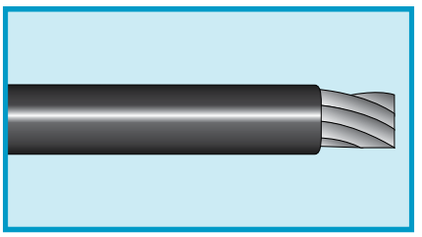
Notes: (1) The colors shall be reserved for the uses as indicated, only.
(2) When the color (White or Black) is selected for the negative side of the system, it shall be used throughout the system to the exclusion of the other color.

### Recommended Marine Wiring Color Codes

| Direct Current Systems, Under 50 Volts | | |
|---|---|---|
| **Color** | **Item** | **Use** |
| Yellow w/Red Stripe | Starting circuit | Starting switch to solenoid |
| Yellow | Generator or alternator field | Generator or alternator field to regulator field |
| | Bilge blowers | Terminal fuse or switch to blowers |
| Dark Gray | Navigation lights | Fuse or switch to lights |
| | Tachometer | Tachometer sender to gauge |
| Brown | Generator armature | Generator armature to regulator |
| | Alternator charge light | Generator terminal or alternator auxiliary terminal to light to regulator |
| | Pumps | Fuse or switch to pumps |
| Orange | Accessory feed | Ammeter to alternator or generator output and accessory fuses or switches |
| | Accessory common feed | Distribution panel to accessory switch |
| Purple | Ignition | Ignition switch to coil and electrical instruments |
| | Instrument feed | Distribution panel to electric instruments |
| Dark Blue | Cabin and instrument lights | Fuse or switch to lights |
| Light Blue | Oil pressure | Sender to gauge |
| Tan | Water temperature | Water temperature sender to gauge |
| Pink | Fuel gauge | Fuel gauge sender to gauge |

# Dearborn™ Marine Wire

## 50 V Standard-Grade Primary Wire



**SAE J1128 Type GPT**
**SAE J378B**

### Operating Temperature

- -40°C to +105°C

### Insulation Color Coding

- Black, red, orange, yellow, green, blue, violet, white, brown, slate

### Materials

- Stranded bare copper conductors
- PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **PWM1816** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.023 | 0.58 | 0.093 | 2.36 |
| **PWM1619** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.023 | 0.58 | 0.103 | 2.62 |
| **PWM1419** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.023 | 0.58 | 0.117 | 2.97 |
| **PWM1219** | 12 | 3.08 | 19/25 | 19 x 0.46 | 0.026 | 0.66 | 0.142 | 3.61 |
| **PWM1019** | 10 | 4.92 | 19/23 | 19 x 0.57 | 0.034 | 0.86 | 0.176 | 4.47 |
| **PWM0819** | 8 | 7.82 | 19/21 | 19 x 0.72 | 0.037 | 0.94 | 0.216 | 5.49 |
| **PWM0619** | 6 | 12.4 | 19/19 | 19 x 0.91 | 0.043 | 1.09 | 0.337 | 8.56 |

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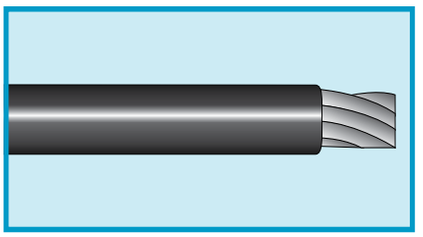
# Dearborn™ Marine Wire

## 600 V Premier Battery Wire



**UL AWM 1283 VW-1**
**UL BC-5W2**
**UL Oil Res 1**
**CSA AWM I A/B FT1**
**CSA TEW-105**
**ABYC**
**Coast Guard**
**SAE J378B, J1127 Type SGT (50 V)**

### Operating Temperature

- -20°C to +105°C

### Insulation Color Coding

- White, black, red, green, yellow, blue, brown, orange, slate, violet

### Materials

- Corrosion-resistant stranded tinned copper conductors
- PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **PBM0830** | 8 | 8.51 | 168/30 (7 x 24) | 168 x 0.25 | 0.060 | 1.52 | 0.294 | 7.47 |
| **PBM0630** | 6 | 13.5 | 266/30 (7 x 38) | 266 x 0.25 | 0.060 | 1.52 | 0.339 | 8.61 |
| **PBM0430** | 4 | 21.3 | 420/30 (7 x 60) | 420 x 0.25 | 0.065 | 1.65 | 0.404 | 10.26 |
| **PBM0230** | 2 | 33.7 | 665/30 (7 x 95) | 665 x 0.25 | 0.065 | 1.65 | 0.471 | 11.96 |
| **PBM0130** | 1 | 42.4 | 836/30 (19 x 44) | 836 x 0.25 | 0.082 | 2.08 | 0.529 | 13.44 |
| **PBM0001** | 1/0 | 53.9 | 1064/30 (19 x 56) | 1064 x 0.25 | 0.082 | 2.08 | 0.570 | 14.48 |
| **PBM0002** | 2/0 | 67.0 | 1323/30 (7 x 7 x 27) | 1323 x 0.25 | 0.082 | 2.08 | 0.648 | 16.46 |
| **PBM0003** | 3/0 | 84.4 | 1666/30 (7 x 7 x 34) | 1666 x 0.25 | 0.082 | 2.08 | 0.659 | 16.74 |
| **PBM0004** | 4/0 | 107 | 2109/30 (37 x 57) | 2109 x 0.25 | 0.082 | 2.08 | 0.760 | 19.30 |

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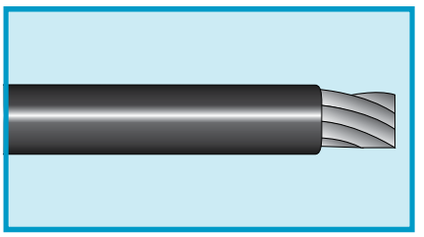
# Dearborn™ Marine Wire

## 600 V Premier Primary Wire



**UL AWM 1015 VW-1**
**UL AWM 1230**
**UL Oil Res. 1**
**UL BC-5W2**
**CSA AWM I A/B FT1**
**CSA TEW-105**
**SAE J1128 Type GPT**
**SAE J378B**
**ABYC**
**Coast Guard**

### Operating Temperature

- -20°C to +105°C

### Insulation Color Coding

- White, black, red, green, yellow, blue, brown, orange, slate, violet

### Materials

- Corrosion-resistant stranded tinned copper conductors
- PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm |
| **PPM1830** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.031 | 0.79 | 0.109 | 2.77 |
| **PPM1630** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.031 | 0.79 | 0.122 | 3.10 |
| **PPM1430** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.031 | 0.79 | 0.136 | 3.45 |
| **PPM1230** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.152 | 3.86 |
| **PPM1030** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.185 | 4.67 |
| **PPM0830** | 8 | 8.51 | 168/30 (7 x 24) | 168 x 0.25 | 0.032 | 0.81 | 0.232 | 5.89 |



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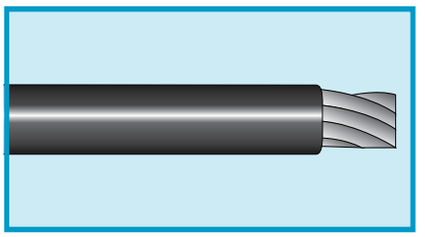
# Dearborn™ Marine Wire

## 600 V Bonding Marine Wire



| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **PGM0849** | 8 | 8.42 | 49/0.0184 (7 x 7) | 49 x 0.47 | 0.060 | 1.52 | 0.286 | 7.26 |
| **PGM0649** | 6 | 13.3 | 49/0.0231 (7 x 7) | 49 x 0.59 | 0.060 | 1.52 | 0.328 | 8.33 |
| **PGM0449** | 4 | 21.2 | 49/0.0292 (7 x 7) | 49 x 0.74 | 0.065 | 1.65 | 0.393 | 9.98 |

**UL AWM 1028**
**UL BC-5W2**
**UL VW-1**
**UL Oil Res I**
**CSA AWM I A/B FT1**
**CSA TEW-105**
**SAE J1128**

### Operating Temperature

- -20C to +105°C (dry)
- -20C to +60°C (wet or oil)

### Insulation Color Coding

- Green

### Materials

- Corrosion-resistant stranded tinned copper conductors
- PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

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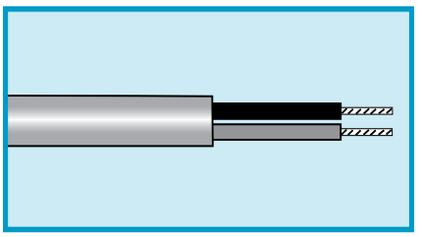
# Dearborn™ Marine Cable

## 600 V Unshielded, Multiconductor, Premier Duplex Cable



**UL BC 5W2**
**UL Oil Res. I**
**UL VW-1**

### Operating Temperature

- -20°C to +105°C (dry)
- -20°C to +75°C (wet)

### Conductor Color Coding

- 1 Black, 2 Red

### Materials

- Corrosion-resistant stranded tinned copper conductors
- White PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

**Two-Conductor Cable**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **PDM2002** | 20 | 0.50 | 10/30 | 10 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.161 x 0.260 | 4.09 x 6.60 |
| **PDM1802** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.181 x 0.292 | 4.60 x 7.42 |
| **PDM1602** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.194 x 0.318 | 4.93 x 8.33 |
| **PDM1402** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.208 x 0.346 | 5.28 x 8.79 |
| **PDM1202** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.227 x 0.384 | 5.77 x 9.75 |
| **PDM1002** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.252 x 0.434 | 6.40 x 11.02 |
| **PDM0802** | 8 | 8.51 | 168/30 | 168 x 0.25 | 0.048 | 1.22 | 0.035 | 0.89 | 0.334 x 0.598 | 8.48 x 15.19 |
| **PDM0602** | 6 | 13.5 | 266/30 | 266 x 0.25 | 0.060 | 1.52 | 0.035 | 0.89 | 0.403 x 0.736 | 10.24 x 18.69 |

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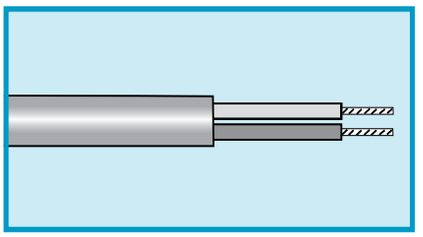
# Dearborn™ Marine Cable

## 600 V Unshielded, Multiconductor, Premier Duplex Safety Cable



**UL BC 5W2**
**UL Oil Res. I**
**UL VW-1**

### Operating Temperature

- -20°C to +105°C (dry)
- -20°C to +75°C (wet)

### Conductor Color Coding

- 1 Yellow, 2 Red

### Materials

- Corrosion-resistant stranded tinned copper conductors
- White PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
(Minimums may apply)

**Two-Conductor Cable**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **PDS1802** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.280 x 0.172 | 7.11 x 4.37 |
| **PDS1602** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.322 x 0.194 | 8.18 x 4.93 |
| **PDS1402** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.356 x 0.211 | 9.04 x 5.36 |
| **PDS1202** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.392 x 0.230 | 9.96 x 5.84 |
| **PDS1002** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.450 x 0.250 | 11.43 x 6.35 |
| **PDS0802** | 8 | 8.51 | 168/30 | 168 x 0.25 | 0.048 | 1.22 | 0.035 | 0.89 | 0.608 x 0.336 | 15.44 x 8.53 |
| **PDS0602** | 6 | 13.50 | 266/30 | 266 x 0.25 | 0.060 | 1.52 | 0.035 | 0.89 | 0.750 x 0.420 | 19.05 x 10.67 |

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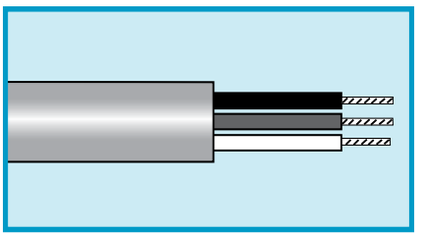
# Dearborn™ Marine Cable

## 600 V Unshielded, Multiconductor, Premier Triplex Cable



**UL BC 5W2**
**UL Oil Res. I**
**UL VW-1**

### Operating Temperature

- -20°C to +105°C (dry)
- -20°C to +75°C (wet)

### Conductor Color Coding

- 1 Black (ungrounded)
  2 Green (ground)
  3 White (ground neutral)

### Materials

- Corrosion-resistant stranded tinned copper conductors
- White PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

**Three-Conductor Cable**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Cable Dimension | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **PFM1603** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.194 x 0.442 | 4.93 x 11.23 |
| **PFM1403** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.208 x 0.484 | 5.28 x 12.29 |
| **PFM1203** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.227 x 0.541 | 5.77 x 13.74 |
| **PFM1003** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.252 x 0.616 | 6.40 x 15.65 |
| **PFM0803** | 8 | 8.51 | 168/30 | 168 x 0.25 | 0.048 | 1.22 | 0.035 | 0.89 | 0.302 x 0.766 | 7.67 x 19.46 |
| **PFM0603** | 6 | 13.50 | 266/30 | 266 x 0.25 | 0.060 | 1.52 | 0.035 | 0.89 | 0.379 x 0.997 | 9.63 x 25.32 |

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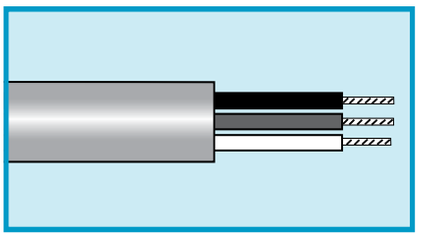
# Dearborn™ Marine Cable

## 600 V Unshielded, Multiconductor, Premier Round Cable



**UL BC 5W2**
**UL Oil Res. I**
**UL VW-1**

### Operating Temperature

- -20°C to +105°C (dry)
- -20°C to +75°C (wet)

### Conductor Color Coding

- Two-Cond. Cable: 1 Black, 2 Red
- Three-Cond. Cable: 1 White, 2 Black, 3 Green
- Four-Cond. Cable: 1 White, 2 Black, 3 Green, 4 Red

### Materials

- Corrosion-resistant stranded tinned copper conductors
- PVC insulation
- White PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)

| Part No. | Conductors | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **PRM1602** | 2 | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.324 | 8.23 |
| **PRM1603** | 3 | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.344 | 8.74 |
| **PRM1604** | 4 | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.376 | 9.55 |
| **PRM1402** | 2 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.352 | 8.94 |
| **PRM1403** | 3 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 9.374 | 9.50 |
| **PRM1404** | 4 | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.410 | 10.41 |
| **PRM1202** | 2 | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.390 | 9.91 |
| **PRM1203** | 3 | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.415 | 10.54 |
| **PRM1204** | 4 | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.456 | 11.58 |
| **PRM1002** | 2 | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.400 | 10.16 |
| **PRM1003** | 3 | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.469 | 11.91 |
| **PRM1004** | 4 | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.517 | 13.13 |
| **PRM0803** | 3 | 8 | 8.51 | 168/30 | 266 x 0.25 | 0.048 | 1.22 | 0.035 | 0.89 | 0.646 | 16.41 |
| **PRM0804** | 4 | 8 | 8.51 | 168/30 | 266 x 0.25 | 0.048 | 1.22 | 0.035 | 0.89 | 0.716 | 18.19 |
| **PRM0603** | 3 | 6 | 13.5 | 266/30 | 266 x 0.25 | 0.060 | 1.52 | 0.035 | 0.89 | 0.794 | 20.17 |
| **PRM0604** | 4 | 6 | 13.5 | 266/30 | 266 x 0.25 | 0.061 | 1.55 | 0.035 | 0.89 | 0.888 | 22.56 |

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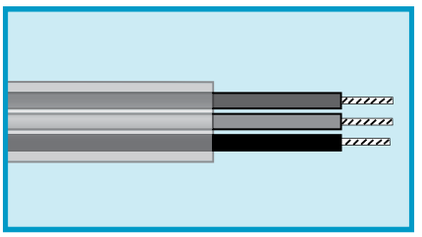
# Dearborn™ Marine Cable

## 600 V Unshielded, Multiconductor, Premier Clear Cote™ Cable



**UL BC 5W2**
**UL Oil Res. I**
**UL VW-1**
**SAE J378B, J1128 Types GPT and HDT**

### Operating Temperature

- -20°C to +105°C (dry)
- -20°C to +75°C (wet)

### Conductor Color Coding

- 1 Black, 2 Red, 3 Green

### Materials

- Corrosion-resistant stranded tinned copper conductors
- PVC insulation
- Clear PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

### Three-Conductor Round Cable

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Nominal Diameter | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **PCM1603R** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.292 | 7.42 |
| **PCM1403R** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.329 | 8.36 |
| **PCM1203R** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.035 | 0.89 | 0.370 | 9.40 |

### Two-Conductor Parallel Cable

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Jacket Thickness | | Nominal Size | |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | mm² | AWG | mm | Inch | mm | Inch | mm | Inch | mm |
| **PCM1802** | 18 | 0.81 | 16/30 | 16 x 0.25 | 0.032 | 0.81 | 0.022 | 0.56 | 0.244 x 0.140 | 6.20 x 3.56 |
| **PCM1602** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.022 | 0.56 | 0.272 x 0.144 | 6.91 x 3.66 |
| **PCM1402** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.032 | 0.81 | 0.022 | 0.56 | 0.306 x 0.161 | 7.77 x 4.09 |
| **PCM1202** | 12 | 3.29 | 65/30 | 65 x 0.25 | 0.032 | 0.81 | 0.022 | 0.56 | 0.197 x 0.350 | 5.00 x 8.89 |
| **PCM1002** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.022 | 0.56 | 0.226 x 0.408 | 5.74 x 10.36 |
| **PCM0802** | 8 | 8.51 | 168/30 | 168 x 0.25 | 0.048 | 1.22 | 0.050 | 1.27 | 0.364 x 0.628 | 9.25 x 15.95 |

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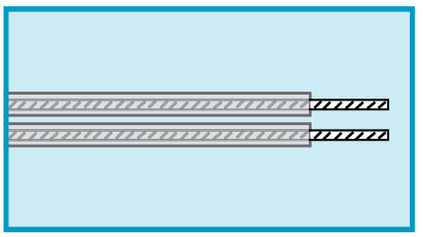
# Dearborn™ Marine Cable

## 300 V Unshielded, Multiconductor, Premier Speaker Cable



### Operating Temperature

- -20°C to +60°C

### Conductor Color Coding

- Clear

### Materials

- Stranded copper conductors, one bar, one tinned
- PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

**Two-Conductor Ripcord Cable**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Size | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **PAM1602** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.027 | 0.69 | 0.115 x 0.230 | 2.92 x 5.84 |
| **PAM1402** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.027 | 0.69 | 0.140 x 0.290 | 3.56 x 7.37 |

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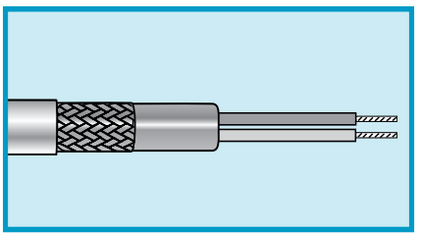
# Dearborn™ Marine Cable

## 600 V Foil/Braid Shielded, Multiconductor, Duplex Cable



**UL BC 5W2**
**UL VW-1**

### Operating Temperature

- -20°C to +105°C (dry)
- -20°C to +75°C (wet)

### Conductor Color Coding

- 1 Yellow, 2 Red

### Materials

- Corrosion-resistant stranded tinned copper conductors
- PVC insulation
- Foil + braid shield
  Aluminum/polyester foil
  Tinned copper braid
- White PVC jacket

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

**Two-Conductor Cable**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Size | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **PSD1602** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.032 | 0.81 | 0.340 | 8.64 |
| **PSD1002** | 10 | 5.32 | 105/30 | 105 x 0.25 | 0.032 | 0.81 | 0.438 | 11.13 |



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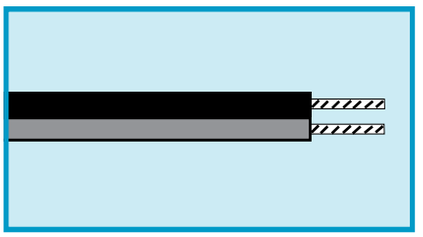
# Dearborn™ Marine Cable

## 50 V Unshielded, Multiconductor, Bonded Duplex Primary Cable



**SAE J1128 Type GPT**
**SAE J378B**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- 1 Black, 2 Red

### Materials

- Corrosion-resistant stranded bare copper conductors
- PVC insulation

### Availability

100 ft (30.5 m)
500 ft (152 m)
1000 ft (305 m)
(Minimums may apply)

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Size | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **PWM1802B** | 18 | 0.81 | 16/0.009 | 16 x 0.23 | 0.023 | 0.58 | 0.094 x 0.189 | 2.39 x 4.80 |
| **PWM1602B** | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.023 | 0.58 | 0.102 x 0.204 | 2.59 x 5.18 |
| **PWM1402B** | 14 | 1.94 | 19/27 | 19 x 0.36 | 0.023 | 0.58 | 0.117 x 0.235 | 2.97 x 5.97 |
| **PWM1202B** | 12 | 3.08 | 19/25 | 19 x 0.45 | 0.023 | 0.58 | 0.142 x 0.285 | 3.61 x 7.24 |
| **PWM1002B** | 10 | 4.92 | 19/23 | 19 x 0.57 | 0.023 | 0.58 | 0.176 x 0.353 | 4.47 x 8.97 |

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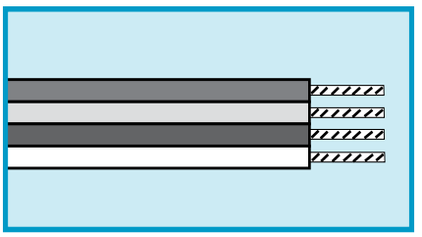
# Dearborn™ Marine Cable

## 600 V Unshielded, Multiconductor, Flat Bonded Trailer Cable



**SAE J378/J1128 Type GPT**

### Operating Temperature

- -20°C to +105°C

### Conductor Color Coding

- 1 Brown, 2 Yellow, 3 Green, 4 White

### Materials

- Stranded bare copper conductors
- PVC insulation

### Availability

100 ft (30.5 m)
Bulk, cut to length
(Minimums may apply)

| Part No. | Conductors | Wire Size | | Stranding | | Insulation Thickness | | Nominal Size | |
|---|---|---|---|---|---|---|---|---|---|
| | | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **PTB1603** | 3 | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.023 | 0.58 | 0. 013 x 0.309 | 2.62 x 7.85 |
| **PTB1604** | 4 | 16 | 1.23 | 19/29 | 19 x 0.29 | 0.023 | 0.58 | 0.103 x 0.412 | 2.62 x 10.46 |

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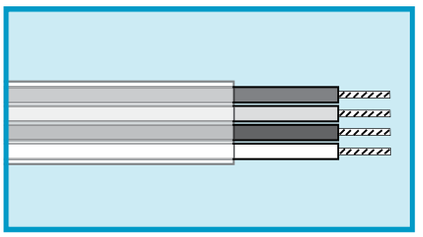
# Dearborn™ Marine Cable

## 600 V Unshielded, Multiconductor, Premier Round Trailer Cable



### UL BC 5W2

#### Operating Temperature

- -20°C to +105°C

#### Conductor Color Coding

#### Conductor Colors

- 1 Brown, 2 Yellow, 3 Green, 4 White

#### Materials

- Corrosion-resistant stranded tinned copper conductors
- Clear PVC jacket

#### Availability

100 ft (30.5 m)
1000 ft (305 m)
Bulk, cut to length
(Minimums may apply)

**Four-Conductor Cable**

| Part No. | Wire Size | | Stranding | | Insulation Thickness | | Nominal Size | |
|---|---|---|---|---|---|---|---|---|
| | AWG | $mm^2$ | AWG | mm | Inch | mm | Inch | mm |
| **PTM1604** | 16 | 1.32 | 26/30 | 26 x 0.25 | 0.031 | 0.79 | 0.399 | 10.13 |
| **PTM1404** | 14 | 2.08 | 41/30 | 41 x 0.25 | 0.031 | 0.79 | 0.440 | 11.18 |

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# Market-Specific Solutions Sets

## The Fast Track to Finding the Perfect Product

Find the wire, cable, and wire management products especially suited to your application with our market-specific solution sets. We've taken our expertise in different industries and applications and picked products that match specific application needs. You'll be able to find and specify products faster and easier.

Products in each solution set reflect the specific needs for electrical performance, durability under mechanical and environmental stresses, standards compliance, and all the other details that distinguish your application in such industries as:

- **Consumer goods**
- **Food and beverage**
- **Material handling**
- **Medical devices**
- **Military**
- **Industrial packaging**
- **Pharmaceutical**
- **Solar power**
- **Wind power**

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# Kerrigan-Lewis™ Specialty Wire

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# Kerrigan-Lewis™ Specialty Wire

Alpha Wire's Kerrigan-Lewis brand of specialty wire is designed and manufactured to stringent standards of quality and performance. From expertise in fine copper wire and insulations to an exact understanding of your most rigorous application requirements, we can help you increase efficiency, reduce size, and achieve higher levels of productivity.

We offer the lowest minimum order levels in the industry. Save money by ordering only what you need.

Our products are custom configured for specific applications. Call us at 773-772-7208 to discuss your application requirements for Kerrigan-Lewis specialty wire.

## Litz wire

Litz wire reduces AC losses in conductors from skin and proximity effects at high frequencies to make transformers and motors more efficient. It consists of individually insulated strands woven or twisted in a specific pattern so that each tends to occupy all possible positions in the cross section. This equalizes flux linkages and reactances so that current is evenly divided among the strands for increased current-carrying efficiency.

## Applications

- **High-frequency inductors and transformers**
- **Motors**
- **Relays**
- **Inverters**
- **Power supplies**
- **Ultrasonic and sonar equipment**
- **Heat-induction equipment**
- **High-twist applications, up to 300 turns per foot**

Kerrigan-Lewis litz wire is available in a wide range of configurations to meet specific operating frequencies, voltages, and current-carrying capacities. Individual strands range from 50 to 16 AWG, with anywhere from a few strands to thousands in the wire. Besides traditional round conductors, we also offer space-saving square and rectangular cross sections for maximum copper density.

Some popular configurations include:

- **60 strands of 36 AWG**
- **100 strands of 38 AWG**
- **2100 strands of 36 AWG**



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| | Variations | Advantages |
|---|---|---|
| **Insulations/Servings** | NEMA-approved films | To 105°C, 155°C, 200°C<br>Single and heavy coatings |
| | Cotton | To 105°C<br>Abrasion resistant |
| | Nylon | To 130°C<br>Abrasion resistant<br>Good high-frequency properties |
| | Celanese synthetic yarn | To 105°C<br>Excellent high-frequency properties<br>Chemically soluble |
| | Nylon/Celanese mix | To 105°C<br>Excellent high-frequency properties<br>Chemically soluble |
| | Fluorocarbon textile | To 200°C<br>Abrasion resistant<br>Excellent high-frequency properties<br>Excellent handling properties |
| | Teflon FEP extrusion | To 200°C<br>Waterproof<br>Abrasion resistant<br>Excellent high-frequency properties<br>Excellent handling properties |
| | PVC | To 105°C |
| **Strand Range** | 50 to 16 AWG | Flexibility in meeting application goals |
| **Configurations** | Round<br>Square<br>Rectangular | Configurable for maximum operating and space efficiencies |

## Resistance wire

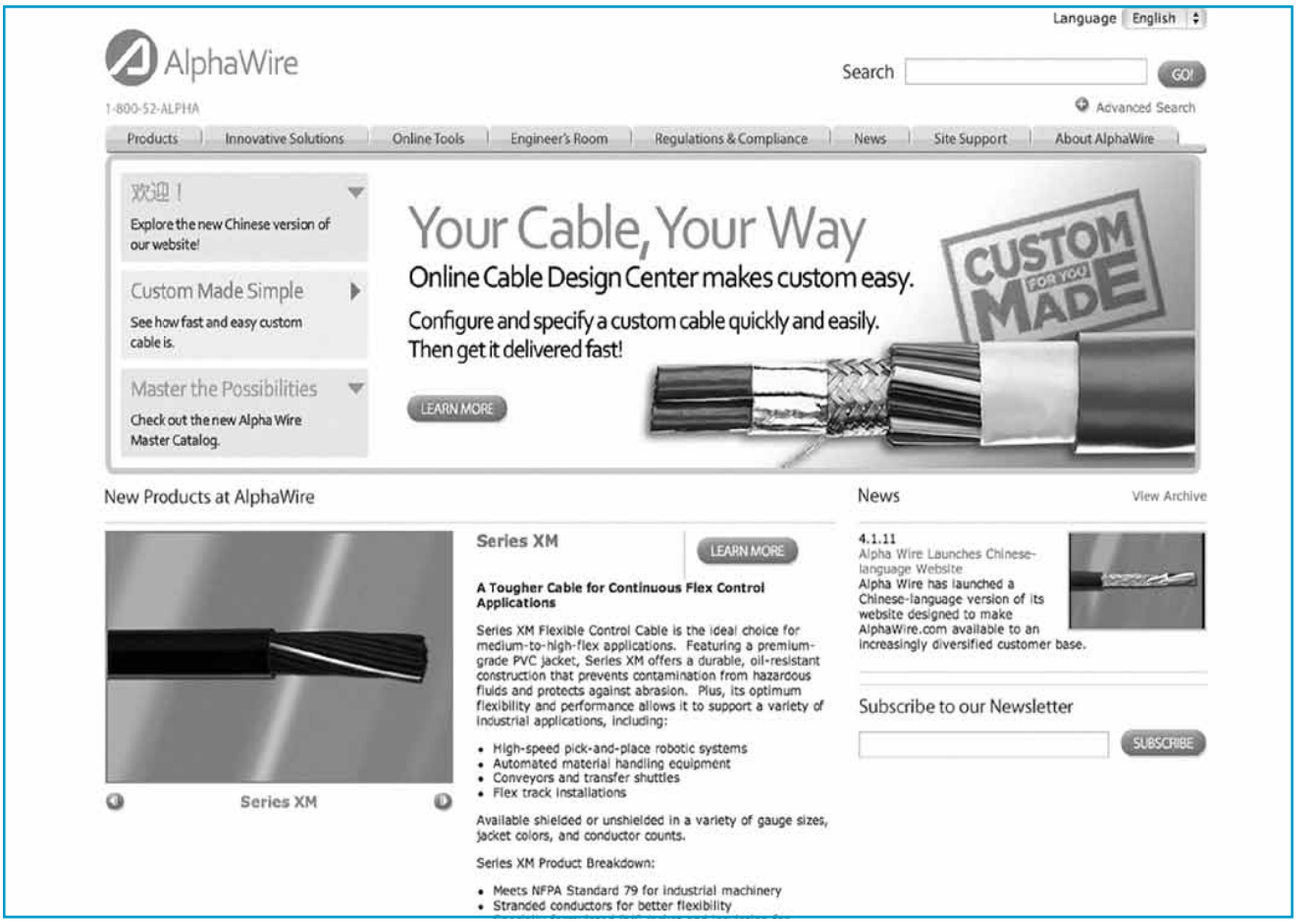
Kerrigan-Lewis resistance wire achieves high-tolerance resistive values with a copper-nickel alloy. Standard configurations are:

- **55% copper/45% nickel for a resistance of 294 ohms per circular mil-foot**
- **78% copper/22% nickel for a resistance of 180 ohms per circular mil-foot**

Other configurations are also available.

We offer the wire in sizes from 40 AWG to 25 AWG to meet specific resistance and current-carrying needs.

# Make AlphaWire.com your destination for all your cabling needs!




Easy to use, full of information, and designed to make the selection of wire, cable, tubing, and wire management fast and easy—the Alpha Wire website is the only source you need.

- **Search products by parameters**
- **View complete product listing**
- **Download specs**
- **Read white papers written by our industry experts**
- **Request a sample (or two!)**
- **Learn about our market-specific solution sets**
- **Download literature**
- **Look around our "Engineer's Room"**
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# FIT® Heat-Shrink Tubing

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# FIT® Heat-Shrink Tubing

Whether your concerns are mechanical strain relief, environmental sealing, or organizing wires, Alpha Wire's FIT heat-shrink tubing is ideal for solving many challenges in electrical and electronic wiring:

- **Protect** substrates from moisture, UV light, corrosion, oxidation, dust, chemicals, abrasion, environmental conditions, solder joints, and encapsulates
- **Insulate** wire terminations and connections, entire printed circuit boards, from electrical and environmental conditions
- **Repair** cable splices, insulation damage and cuts, cable jackets, and connections, with permanent or temporary quick fixes
- **Relieve** strain on cables and connectors to prevent harmful flexing or bending
- **Bundle and organize** wire harness, cable, tubing, and hose dressing on OEM equipment, breakouts, bundle in small spaces, conform to odd shapes
- **Seal** connections, backshells, and other gaps from moisture and other contaminants
- **Identify** circuits through color coding, grouping, and labeling

## FIT heat-shrink products

Our FIT heat-shrink tubing offers a reliable way to protect and seal terminations or add additional mechanical ruggedness. FIT preferred heat-shrink products are made from premium compounds under the tightest manufacturing controls. This means FIT tubing consistently provides excellent physical characteristics such as low longitudinal shrinkage and wide temperature ranges while providing an elegant appearance when used alone or on OEM equipment.

The FIT line consists of various tubing types, each designed with unique attributes that offer tubing solutions for the broadest possible range of applications and environments. FIT products are always in stock and come in an unprecedented variety of package sizes.

Beyond the widely used polyolefin tubing that is suited to the broadest range of general-purpose needs, we offer a number of other materials for higher or lower shrink temperatures, wider operating temperatures, and such special needs as outstanding chemical resistance or increased flexibility.


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| Material | Features | Shrink Temperature | Shrink Ratio (approx.) | FIT Family |
|---|---|---|---|---|
| **Single-Wall Cross-linked Polyolefin for General-Purpose Use** | | | | |
| **Cross-linked polyolefin** | General-purpose heat-shrink tubing<br>Range of shrink ratios | 90°C | 2:1 | FIT-221 |
| | | 90°C | 4:1 | FIT-421 |
| **Flame-retardant cross-linked polyolefin** | Low shrink temp<br>Passes UL VW-1 flame test | 90°C | 2:1 | FIT-221V |
| | | 90°C | 3:1 | FIT-321V |
| **Cross-linked polyolefin** | Approved for 600-V ground lead identification<br>Green with yellow stripe<br>Passes UL VW-1 flame test | 90°C | 2:1 | FIT-260 |
| **Semirigid cross-linked polyolefin** | 30% stronger and 25% stiffer than standard polyolefin | 110°C | 2:1 | FIT-295 |
| **Dual-Wall Polyolefin for Additional Sealing** | | | | |
| **Surface cross-linked, dual extruded** | Meltable inner wall to encapsulate without adhesive | 140°C | 2.5:1 | FIT-300 |
| | | 110°C | 3:1 | FIT-321 |
| | | 121°C | 5.6:1 | FIT-621 |
| **Bonding, thermoplastic adhesive lined** | Bonds to most materials<br>High voltage: to 2 kV at 90°C continuous use | 120°C | 3:1 | FIT-700 |
| **Bonding, adhesive lined** | Permanent water and corrosion protection | 110°C | 2:1 | FIT-750 |
| **Special-Application Tubing** | | | | |
| **Irradiated PVC** | Low shrink temperature<br>Passes UL VW-1 flame test<br>30% stronger than standard polyolefin | 100°C | 2:1 | FIT-105 |
| **Cross-linked PVDF** | High shrink temperature<br>Fast recovery time<br>Excellent chemical, heat, and flame resistance<br>Passes UL VW-1 flame test<br>3x the tensile strength of standard polyolefin | 170°C | 2:1 | FIT-350 |
| **FEP** | High shrink temperature<br>Excellent chemical resistance<br>Excellent dielectric properties<br>Thinnest wall thickness available | 200°C | 1.2:1 | FIT-400 |
| **PTFE** | High shrink temperature<br>Excellent chemical resistance<br>Excellent dielectric properties<br>Very thin wall thickness | 250°C | 1.5:1 | FIT-500 |
| **Chlorinated polyolefin** | Highly flexible<br>Oil and abrasion resistant<br>Passes UL VW-1 flame test | 130°C | 2:1 | FIT-600 |
| **Flexible fluoroelastomer** | High shrink temperature<br>Excellent chemical resistance<br>Flexible | 120°C | 2:1 | FIT-650 |
| **Polyethylene/ polyester** | Superior abrasion resistance<br>Excellent flexibility<br>Resists harsh environments | 80°C | 2:1 | FIT-FABRIC |
| **Cross-linked silicone rubber** | High flexibility available<br>Pliable<br>Scrape abrasion resistant<br>Passes UL VW-1 flame test | 200°C | 1.7:1 | FIT-FLEX |
| **Cross-linked PVDF** | Transparent after shrink<br>Fast recovery time<br>Excellent chemical, heat, and flame resistance<br>Passes UL VW-1 flame test<br>2x the tensile strength of standard polyolefin | 150°C | 2:1 | FIT-CLEAR |

## Heat Guns

Alpha heat guns are the perfect complement to our tubing, making it easy to apply FIT heat-shrink tubing quickly and efficiently.

The lightweight, durable guns are designed to make application of heat-shrink tubing fast and reliable. They are well suited to both industrial production and field use.

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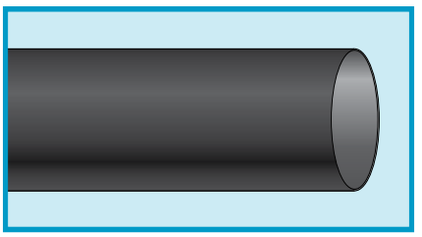
# Heat-Shrink Tubing

## FIT®-105 Heat-Shrink Tubing
## 2:1 Shrink Ratio, Irradiated PVC



**AMS DTL-23053/2 Class 1 (except longitudinal shrinkage)**
**UL 224 VW-1**
**CSA 198**

- Low shrink temperature
- Fast recovery time
- 30% stronger than standard polyolefin
- Low water absorption
- UV resistant

### Operating Temperature
- -20°C to +105°C

### Shrink Temperature
- 100°C min.
- 105°C full recovery

### Material
- Irradiated PVC

### Color
- Black

### Physical Properties
- Tensile strength: 3000 psi (20.68 N/mm²)
- Elongation: 300% min
- Longitudinal change: +1%/-25%
- Specific gravity: 1.32
- Flame retardant
- Shelf life: 1 year at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max.
- Lead free

### Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 1083 V/mil (426.3 kV/cm)
- Volume resistivity: $10^{12}$ ohm-cm

### Availability
See table

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **FIT-105-3/64** | 0.046 | 1.17 | 0.023 | 0.58 | 0.020 | 0.51 | 25, 100, 500, 1000 | 7.6, 30.5, 152, 305 |
| **FIT-105-1/16** | 0.062 | 1.57 | 0.031 | 0.79 | 0.020 | 0.51 | 25, 100, 500, 1000 | 7.6, 30.5, 152, 305 |
| **FIT-105-3/32** | 0.093 | 2.36 | 0.046 | 1.17 | 0.020 | 0.51 | 25, 100, 1000 | 7.6, 30.5, 305 |
| **FIT-105-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.025 | 0.64 | 25, 100, 1000 | 7.6, 30.5, 305 |
| **FIT-105-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.025 | 0.64 | 25, 100, 1000 | 7.6, 30.5, 305 |
| **FIT-105-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.025 | 0.64 | 25, 100, 1000 | 7.6, 30.5, 305 |
| **FIT-105-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.030 | 0.76 | 25, 100, 500 | 7.6, 30.5, 152 |
| **FIT-105-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.030 | 0.76 | 25, 100, 250 | 7.6, 30.5, 76.2 |
| **FIT-105-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.035 | 0.89 | 25, 100, 250 | 7.6, 30.5, 76.2 |
| **FIT-105-1IN** | 1.000 | 25.40 | 0.500 | 12.70 | 0.040 | 1.02 | 25, 100, 250 | 7.6, 30.5, 76.2 |
| **FIT-105-1-1/2** | 1.500 | 38.10 | 0.750 | 19.05 | 0.045 | 1.14 | 25, 100 | 7.6, 30.5 |

### Packaged Assortments

Assorted sizes of 6” (15 cm) lengths

**FIT-105-MS-1**

| Contents | Tubing Size | | Quantity |
|---|---|---|---|
| | Inch | mm | |
| **FIT-105-3/64** | 0.046 | 1.17 | 10 |
| **FIT-105-1/16** | 0.062 | 1.57 | 10 |
| **FIT-105-3/32** | 0.093 | 2.36 | 10 |
| **FIT-105-1/8** | 0.125 | 3.18 | 10 |
| **FIT-105-3/16** | 0.187 | 4.75 | 10 |
| **FIT-105-1/4** | 0.250 | 6.35 | 10 |

**FIT-105-MS-2**

| Contents | Tubing Size | | Quantity |
|---|---|---|---|
| | Inch | mm | |
| **FIT-105-3/8** | 0.375 | 9.53 | 10 |
| **FIT-105-1/2** | 0.500 | 12.70 | 10 |
| **FIT-105-3/4** | 0.750 | 19.05 | 10 |
| **FIT-105-1 IN** | 1.000 | 25.40 | 10 |

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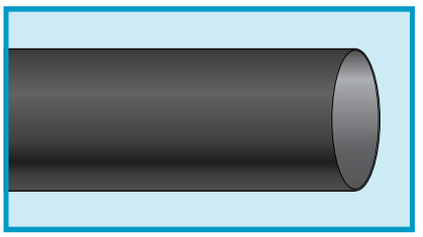
# Heat-Shrink Tubing

## FIT®-221 Heat-Shrink Tubing
## 2:1 Shrink Ratio, XLPO



**AMS-DTL-23053/5 Class 1 (except clear)**
**AMS-DTL-23053/5 Class 2 (clear)**
**UL 224 (except clear)**
**CSA 198 (except clear)**

- Excellent general-purpose tubing
- Low water absorption
- UV resistant (black only)

### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature

- 90°C min.
- 121°C full recovery

### Material

- Cross-linked polyolefin

### Color

- Black, white, red, yellow, blue, green, clear*

*Clear tubing may exhibit some color tint that is the result of the product's chemistry; the tint is variable and can be any color

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm²)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35 (colors)/ 1.00 (clear)
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1000 psi (6.89 N/mm²)
- Lead free

### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{14}$ ohm-cm

### Availability

See table, next page

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | |
|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm |
| **FIT-221-3/64** | 0.046 | 1.17 | 0.023 | 0.58 | 0.016 | 0.41 |
| **FIT-221-1/16** | 0.063 | 1.60 | 0.031 | 0.79 | 0.017 | 0.43 |
| **FIT-221-3/32** | 0.093 | 2.36 | 0.046 | 1.17 | 0.020 | 0.51 |
| **FIT-221-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.020 | 0.51 |
| **FIT-221-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.020 | 0.51 |
| **FIT-221-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.025 | 0.64 |
| **FIT-221-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.025 | 0.64 |
| **FIT-221-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.025 | 0.64 |
| **FIT-221-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.030 | 0.76 |
| **FIT-221-1IN** | 1.000 | 25.40 | 0.500 | 12.70 | 0.035 | 0.89 |
| **FIT-221-1-1/2** | 1.500 | 38.10 | 0.750 | 19.05 | 0.040 | 1.02 |
| **FIT-221-2IN** | 2.000 | 50.80 | 1.000 | 25.40 | 0.045 | 1.14 |
| **FIT-221-3IN** | 3.000 | 76.20 | 1.500 | 38.10 | 0.050 | 1.27 |
| **FIT-221-4IN** | 4.000 | 101.60 | 2.000 | 50.80 | 0.055 | 1.40 |

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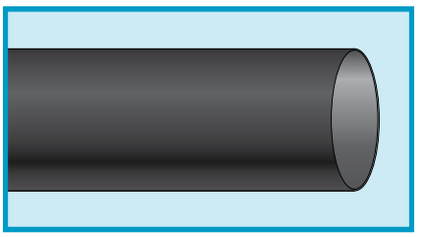
# Heat-Shrink Tubing

## FIT®-221 Heat-Shrink Tubing
## 2:1 Shrink Ratio, XLPO



**AMS-DTL-23053/5 Class 1 (except clear)**
**AMS-DTL-23053/5 Class 2 (clear)**
**UL 224 (except clear)**
**CSA 198 (except clear)**

### Availability

| Part No. | Spools | | Qty, Cut Pieces at Length | | | |
|---|---|---|---|---|---|---|
| | Ft | m | 4 ft (1.2 m) | 6" (152 mm) | 1" (25.4 mm) | 0.5" (12.7 mm) |
| FIT-221-3/64 | 1000* | 305* | 25 | 40 | 1000 | 1000 |
| FIT-221-1/16 | 70, 100*, 1000 | 21.3, 30.5*, 305 | 25 | 36 | 1000 | 1000 |
| FIT-221-3/32 | 65, 100*, 500 | 19.8, 30.5*, 152 | 25 | 32 | 1000 | 1000 |
| FIT-221-1/8 | 60, 100*, 500 | 18.2, 30.5*, 152 | 25 | 28 | 1000 | 1000 |
| FIT-221-3/16 | 50, 100*, 500 | 15.2, 30.5*, 152 | 25 | 24 | 1000 | 1000 |
| FIT-221-1/4 | 40, 100*, 250 | 12.2, 30.5, 76.2* | 25 | 20 | 1000 | 1000 |
| FIT-221-3/8 | 35, 50*, 200 | 10.6, 15.2*, 60.9 | 25 | 16 | 1000 | 1000 |
| FIT-221-1/2 | 32, 50*, 150 | 9.7, 15.2*, 45.7 | 5 | 14 | – | – |
| FIT-221-3/4 | 24, 50*, 250 | 7.3, 15.2*, 76.2 | 5 | 12 | – | – |
| FIT-221-1IN | 16, 50*, 250 | 4.8, 15.2, 76.2 | 5 | 8 | – | – |
| FIT-221-1-1/2 | 125* | 38.1* | 5 | 5 | – | – |
| FIT-221-2IN | 125* | 38.1* | 5 | 3 | – | – |
| FIT-221-3IN | 100* | 30.5* | 2 | 2 | – | – |
| FIT-221-4IN | 50* | 15.2* | 2 | – | – | – |

*Black and clear tubing only.

Spools may contain multiple lengths.

### Packaged Assortments

**Assorted sizes of 6" (152 mm) lengths**

**Each length is size identified.**

**FIT-221-MS-1** Assorted colors: Black, blue, red, green, yellow

| Contents | Tubing Size | | Quantity |
|---|---|---|---|
| | Inch | mm | |
| **FIT-221-3/64** | 0.046 | 1.17 | 6 |
| **FIT-221-1/16** | 0.063 | 1.60 | 6 |
| **FIT-221-3/32** | 0.093 | 2.36 | 6 |
| **FIT-221-1/8** | 0.125 | 3.18 | 6 |
| **FIT-221-3/16** | 0.187 | 4.75 | 6 |

**FIT-221-MS-2** Assorted colors: Black, blue, red, yellow

| Contents | Tubing Size | | Quantity |
|---|---|---|---|
| | Inch | mm | |
| **FIT-221-1/4** | 0.250 | 6.35 | 4 |
| **FIT-221-3/8** | 0.375 | 9.53 | 4 |
| **FIT-221-1/2** | 0.500 | 12.70 | 4 |
| **FIT-221-3/4** | 0.750 | 19.05 | 4 |

### FIT-221 Kits

**FIT-KIT-221BK**
Colors: Black

| Contents | Tubing Size | | Quantity |
|---|---|---|---|
| | Inch | mm | |
| **FIT-221-3/16** | 0.187 | 4.75 | 25 |
| **FIT-221-1/4** | 0.250 | 6.35 | 20 |
| **FIT-221-3/8** | 0.375 | 9.53 | 15 |
| **FIT-221-1/2** | 0.500 | 12.70 | 10 |
| **FIT-221-3/4** | 0.750 | 19.05 | 6 |
| **FIT-221-1IN** | 1.000 | 25.40 | 4 |

**FIT-KIT-221C** Assorted colors: Black, blue, red, white, green, yellow, clear

| Contents | Tubing Size | | Quantity | |
|---|---|---|---|---|
| | Inch | mm | Each Color | Total |
| **FIT-221-3/32** | 0.093 | 2.36 | 4 | 28 |
| **FIT-221-1/8** | 0.125 | 3.18 | 3 | 21 |
| **FIT-221-3/16** | 0.187 | 4.75 | 3 | 21 |
| **FIT-221-1/4** | 0.250 | 6.35 | 3 | 21 |
| **FIT-221-3/8** | 0.375 | 9.53 | 2 | 14 |
| **FIT-221-1/2** | 0.500 | 12.70 | 2 | 14 |

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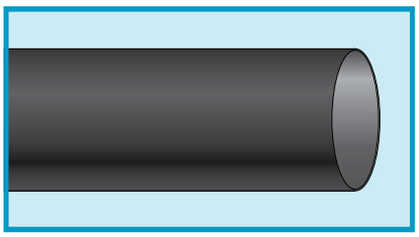
# Heat-Shrink Tubing

## FIT®-221B Heat-Shrink Tubing
## 2:1 Shrink Ratio, XLPO, Bulk Packaging



**AMS-DTL-23053/5 Class 1 (except clear)**
**AMS-DTL-23053/5 Class 2 (clear)**
**UL 224 (except clear)**
**CSA 198 (except clear)**

- Excellent general-purpose tubing
- Low shrink temperature
- Fastest recovery time
- Low water absorption
- UV resistant (black only)

### Operating Temperature
- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature
- 90°C min.
- 121°C full recovery

### Material
- Cross-linked polyolefin

### Colors
- Black, blue, clear*

*Clear tubing may exhibit some color tint that is the result of the product's chemistry; the tint is variable and can be any color

### Physical Properties
- Tensile strength: 1500 psi (10.34 N/mm$^2$)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35 (colors)/ 1.00 (clear)
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1000 psi (6.89 N/mm$^2$)
- Lead free

### Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{14}$ ohm-cm

### Availability
See table

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | |
|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm |
| **FIT-221B-3/64** | 0.046 | 1.17 | 0.023 | 0.58 | 0.016 | 0.41 |
| **FIT-221B-1/16** | 0.063 | 1.60 | 0.031 | 0.79 | 0.017 | 0.43 |
| **FIT-221B-3/32** | 0.093 | 2.36 | 0.046 | 1.17 | 0.020 | 0.51 |
| **FIT-221B-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.020 | 0.51 |
| **FIT-221B-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.020 | 0.51 |
| **FIT-221B-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.025 | 0.64 |
| **FIT-221B-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.025 | 0.64 |
| **FIT-221B-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.025 | 0.64 |
| **FIT-221B-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.030 | 0.76 |
| **FIT-221B-1IN** | 1.000 | 25.40 | 0.500 | 12.70 | 0.035 | 0.89 |

### Availability

| Part No. | Spools (Length x No. of Spools) | | Qty, Cut Pieces at Length |
|---|---|---|---|
| | Ft | m | 4 ft (1.2 m) |
| **FIT-221B-3/64** | 1000 x 3 | 305 x 3 | 250 |
| **FIT-221B-1/16** | 1000 x 3 | 305 x 3 | 250 |
| **FIT-221B-3/32** | 500 x 3 | 152 x 3 | 250 |
| **FIT-221B-1/8** | 500 x 3 | 152 x 3 | 250 |
| **FIT-221B-3/16** | 500 x 2 | 152 x 2 | 250 |
| **FIT-221B-1/4** | 250 x 2 | 76.2 x 2 | 250 |
| **FIT-221B-3/8** | 200 x 2 | 60.9 x 2 | 250 |
| **FIT-221B-1/2** | 150 x 2 | 45. 7 x 2 | 200 |
| **FIT-221B-3/4** | 250 x 1<br>250 x 2 | 76.2 x 1<br>76.2 x 2 | 125 |
| **FIT-221B-1IN** | 250 x 1 | 76.2 x 1 | 75 |

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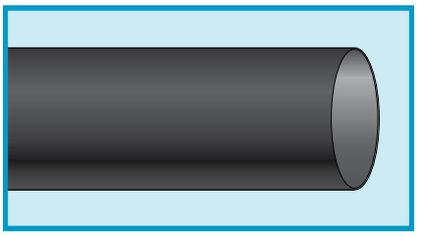
# Heat-Shrink Tubing

## FIT®-221V Heat-Shrink Tubing
## 2:1 Shrink Ratio, XLPO, Low Shrink Temperature



**AMS DTL-23053/5 Class 1 and 3**
**UL 224 VW-1**
**CSA 198**

- Excellent general-purpose tubing
- Low shrink temperature
- Fastest recovery time
- Low water absorption
- UV resistant (black only)

### Operating Temperature
- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature
- 90°C min.
- 121°C full recovery

### Material
- Cross-linked polyolefin

### Colors
- Black, white, red, yellow, green, blue

### Physical Properties
- Tensile strength: 1500 psi (10.34 N/mm²)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1000 psi (6.89 N/mm²)
- Lead free

### Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{14}$ ohm-cm

### Availability
See table

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | |
|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm |
| **FIT-221V-3/64** | 0.046 | 1.17 | 0.023 | 0.58 | 0.016 | 0.41 |
| **FIT-221V-1/16** | 0.063 | 1.60 | 0.031 | 0.79 | 0.017 | 0.43 |
| **FIT-221V-3/32** | 0.093 | 2.36 | 0.046 | 1.17 | 0.020 | 0.51 |
| **FIT-221V-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.020 | 0.51 |
| **FIT-221V-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.020 | 0.51 |
| **FIT-221V-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.025 | 0.64 |
| **FIT-221V-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.025 | 0.64 |
| **FIT-221V-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.025 | 0.64 |
| **FIT-221V-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.030 | 0.76 |
| **FIT-221V-1IN** | 1.000 | 25.40 | 0.500 | 12.70 | 0.035 | 0.89 |
| **FIT-221V-1-1/2** | 1.500 | 38.10 | 0.750 | 19.05 | 0.040 | 1.02 |
| **FIT-221V-2IN** | 2.000 | 50.80 | 1.000 | 25.40 | 0.045 | 1.14 |

### Availability

| Part No. | Spools (Length x No. of Spools) | | Qty, Cut Pieces at Length | |
|---|---|---|---|---|
| | Ft | m | 4 ft (1.2 m) | 6" (152 mm) |
| **FIT-221V-3/64** | 1000 x 3 | 305 x3 | 25, 250 | 40 |
| **FIT-221V-1/16** | 1000 x 1, 1000 x 3 | 305 x 1, 305 x 3 | 25, 250 | 36 |
| **FIT-221V-3/32** | 500 x 1, 500 x 3 | 152 x 1, 152 x 3 | 25, 250 | 32 |
| **FIT-221V-1/8** | 500 x 1, 500 x 3 | 152 x 1, 152 x 3 | 25, 250 | 28 |
| **FIT-221V-3/16** | 500 x 1, 500 x 2 | 152 x 1, 152 x 2 | 25, 250 | 24 |
| **FIT-221V-1/4** | 250 x 1, 250 x 2 | 76.2 x 1, 76.2 x 2 | 25, 250 | 20 |
| **FIT-221V-3/8** | 200 x 1, 200 x 2 | 60.9 x 1, 60.9 x 2 | 25, 250 | 16 |
| **FIT-221V-1/2** | 150 x 1, 150 x 2 | 45.7 x 1, 45.7 x 2 | 5, 200 | 14 |
| **FIT-221V-3/4** | 250 x 1 | 76.2 x 1 | 5, 125 | 12 |
| **FIT-221V-1IN** | 250 x 1 | 76.2 x 1 | 5, 75 | 8 |
| **FIT-221V-1-1/2** | 125 x 1 | 38.1 x 1 | 5 | 5 |
| **FIT-221V-2IN** | 125 x 1 | 38.1 x 1 | 5 | 3 |

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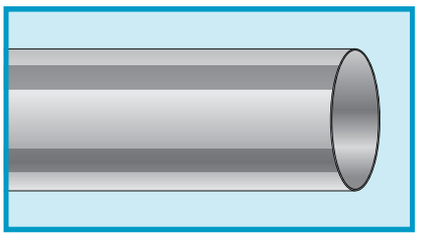
# Heat-Shrink Tubing

## FIT®-260 Heat-Shrink Tubing
## 2:1 Shrink Ratio, XLPO, Ground Lead Identification



**UL 224 VW-1**
**CSA 198**

- Excellent general-purpose tubing
- Low water absorption

### Operating Temperature
- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature
- 90°C min.
- 120°C full recovery

### Material
- Cross-linked polyolefin

### Color
- Green/yellow

### Physical Properties
- Tensile strength: 1500 psi (10.34 N/mm²)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max.
- Fluid resistance: 1000 psi (6.89 N/mm²)
- Lead free

### Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{14}$ ohm-cm

### Availability
See table

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **FIT-260-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.020 | 0.51 | 500 | 152 |
| **FIT-260-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.025 | 0.64 | 250 | 76.2 |
| **FIT-260-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.025 | 0.64 | 250 | 76.2 |
| **FIT-260-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.025 | 0.64 | 250 | 76.2 |
| **FIT-260-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.030 | 0.76 | 250 | 76.2 |
| **FIT-260-1** | 1.000 | 25.40 | 0.500 | 12.70 | 0.035 | 0.89 | 100 | 30.5 |

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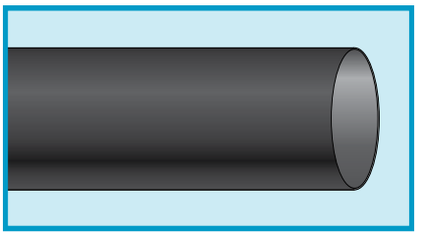
# Heat-Shrink Tubing

## FIT®-295 Heat-Shrink Tubing
## 2:1 Shrink Ratio, Semirigid XLPO



**AMS-DTL-23053/6 Class 1 (Black)**
**AMS-DTL-23053/6 Class 2 (Clear)**
**UL 224 VW-1 (Black)**
**CSA 198 (Black)**

- 30% stronger than standard XLPO
- 25% stiffer than standard XLPO
- Low water absorption
- UV resistant (black only)

### Operating Temperature
- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature
- 110°C min.
- 135°C full recovery

### Material
- Semirigid cross-linked polyolefin

### Colors
- Black, clear

### Physical Properties
- Tensile strength: 2000 psi (17.79 N/mm²)
- Elongation: 200% min
- Longitudinal change: ±5%
- Specific gravity: 1.35 (black)/1.00 (clear)
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max. (black)/0.02% max. (clear)
- Lead free

### Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{14}$ ohm-cm

### Availability
See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability Qty, Cut Pieces at Length | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | 4 ft (1.2 m) | 6" (152 mm) |
| **FIT-295-3/64** | 0.046 | 1.17 | 0.023 | 0.58 | 0.020 | 0.51 | 25 | 40 |
| **FIT-295-1/16** | 0.063 | 1.60 | 0.031 | 0.79 | 0.020 | 0.51 | 25 | 36 |
| **FIT-295-3/32** | 0.093 | 2.36 | 0.046 | 1.17 | 0.020 | 0.51 | 25 | 32 |
| **FIT-295-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.020 | 0.51 | 25 | 28 |
| **FIT-295-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.025 | 0.64 | 25 | 24 |
| **FIT-295-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.025 | 0.64 | 25 | 20 |
| **FIT-295-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.030 | 0.76 | 25 | 16 |
| **FIT-295-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.030 | 0.76 | 5 | 14 |

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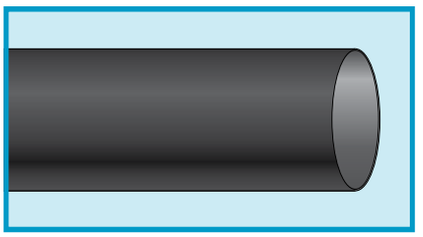
# Heat-Shrink Tubing

## FIT®-300 Heat-Shrink Tubing
## 2.5:1 Shrink Ratio, Dual-Wall Semirigid XLPO



**AMS-DTL-23053/4 Class 1**
**UL 224 (Except clear)**

- Meltable inner wall for encapsulation without adhesives
- Thicker wall for added protection
- High shrink ratios
- Excellent dielectric properties

### Applications

- Temporary sealing without sticky residue
- Substrates requiring filled interstices

### Operating Temperature

- -55°C to +135°C
- -55°C to +125°C (UL)

### Shrink Temperature

- 140°C min.

### Material

- Dual-wall semirigid cross-linked polyolefin

### Colors

- Black, white, red, yellow, blue, slate, brown

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm$^2$)
- Elongation: 200% min
- Longitudinal change: +1%/-10%
- Specific gravity: 0.99
- Shelf life: 3 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1000 psi (6.89 N/mm$^2$)
- Lead free
- Halogen free

### Electrical Properties

- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{16}$ ohm-cm

### Availability

See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability Qty, Cut Pieces at Length | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | 4 ft (1.2 m) | 6" (152 mm) |
| **FIT-300-1/8** | 0.125 | 3.18 | 0.023 | 0.58 | 0.038 | 0.97 | 25 | 14 |
| **FIT-300-3/16** | 0.187 | 4.75 | 0.060 | 1.52 | 0.043 | 1.09 | 25 | 12 |
| **FIT-300-1/4** | 0.250 | 6.35 | 0.080 | 2.03 | 0.047 | 1.19 | 25 | 10 |
| **FIT-300-3/10** | 0.300 | 7.62 | 0.050 | 1.27 | 0.100 | 2.54 | 25 | 4 |
| **FIT-300-3/8** | 0.375 | 9.53 | 0.135 | 3.43 | 0.050 | 1.27 | 25 | 8 |
| **FIT-300-1/2** | 0.500 | 12.70 | 0.195 | 4.95 | 0.055 | 1.40 | 5 | 6 |
| **FIT-300-3/4** | 0.750 | 19.05 | 0.313 | 7.95 | 0.065 | 1.65 | 5 | 4 |
| **ST-3001-IN** | 1.000 | 25.40 | 0.400 | 10.16 | 0.075 | 1.91 | 5 | -- |

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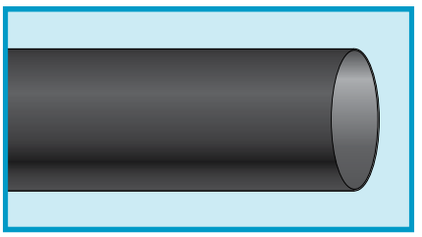
# Heat-Shrink Tubing

## FIT®-321 Heat-Shrink Tubing
## 3:1 Shrink Ratio, Dual-Wall XLPO, Adhesive Lined



**AMS-DTL-23053/4 Class 3**
**UL 224**
**CSA 198**

- Thicker wall for increased durability
- Water-resistant inner permanent-bonding adhesive

### Operating Temperature
- -55°C to +125°C

### Shrink Temperature
- 110°C min.
- 110°C full recovery

### Material
- Dual-wall flexible polyolefin with thick-wall adhesive

### Color
- Black

### Physical Properties
- Tensile strength: 1500 psi (10.34 N/mm²)
- Elongation: 250% min
- Longitudinal change: +1%/-15%
- Flame tested
- Shelf life: 3 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max
- Fluid resistance: 900 psi (6.20 N/mm²)
- UV resistant
- Lead free

### Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 300 V/mil (118 kV/cm)
- Volume resistivity: $10^{12}$ ohm-cm

### Availability
See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Recovered Melt Wall Thickness, Nom. | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **FIT-321-1/8** | 0.125 | 3.18 | 0.024 | 0.61 | 0.037 | 0.94 | 0.020 | 0.51 |
| **FIT-321-1/4** | 0.252 | 6.40 | 0.073 | 1.85 | 0.047 | 1.19 | 0.020 | 0.51 |
| **ST-303-3/8** | 0.374 | 9.50 | 0.118 | 3.00 | 0.051 | 1.30 | 0.025 | 0.64 |
| **FIT-321-1/2** | 0.500 | 12.70 | 0.157 | 3.99 | 0.071 | 1.80 | 0.030 | 0.76 |
| **ST-303-3/4** | 0.748 | 19.00 | 0.236 | 5.99 | 0.071 | 1.80 | 0.035 | 0.89 |
| **FIT-321-1** | 0.945 | 24.00 | 0.315 | 8.00 | 0.098 | 2.49 | 0.040 | 1.02 |
| **FIT-321-1-1/2** | 1.575 | 40.01 | 0.512 | 13.00 | 0.098 | 2.49 | 0.040 | 1.02 |

### Availability

| Part No. | Qty, Cut Pieces at Length | |
|---|---|---|
| | 4 ft (1.2 m) | 6" (152 mm) |
| **FIT-321-1/8** | 25 | 28 |
| **FIT-321-1/4** | 25 | 20 |
| **FIT-321-1/2** | 5 | 14 |
| **FIT-321-1** | 5 | 8 |
| **FIT-321-1-1/2** | 5 | 5 |

### Packaged Assortments
Assorted sizes of 6" (15 cm) lengths

**FIT-321-MS-1** Colors: Black

| | Size | | Quantity |
|---|---|---|---|
| | Inch | mm | |
| **FIT-321-1/8** | 0.125 | 3.18 | 5 |
| **FIT-321-1/4** | 0.252 | 6.40 | 5 |
| **FIT-321-1/2** | 0.500 | 12.70 | 5 |
| **FIT-321-1** | 0.945 | 24.00 | 5 |

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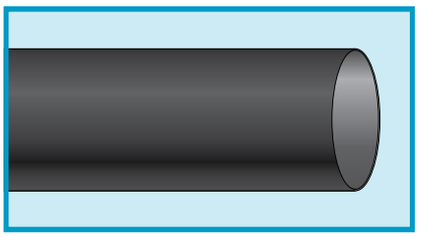
# Heat-Shrink Tubing

## FIT®-321V Heat-Shrink Tubing
## 3:1 Shrink Ratio, Flexible XLPO, Thin Wall



**AMS-DTL-23053/5 Class 1 and 3 (except dimensions)**
**UL 224 VW-1**
**CSA 198**

- Low shrink temperature
- Fast recovery time
- Reduced wall thickness

### Operating Temperature
- -55°C to +135°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature
- 90°C min.
- 135°C full recovery

### Material
- Flexible cross-linked thin-wall polyolefin

### Colors
- Black, white

### Physical Properties
- Tensile strength: 1500 psi (10.34 N/mm²)
- Elongation: 200% min
- Longitudinal change: +5%/-15%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1000 psi (6.89 N/mm²)

### Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{14}$ ohm-cm

### Availability
See table

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **FIT-321V-3/32** | 0.060 | 1.52 | 0.020 | 0.51 | 0.020 | 0.51 | 500 | 152 |
| **FIT-321V-1/8** | 0.120 | 3.05 | 0.040 | 1.02 | 0.024 | 0.61 | 500 | 152 |
| **FIT-321V-1/4** | 0.240 | 6.10 | 0.080 | 2.03 | 0.028 | 0.71 | 250 | 76.2 |
| **FIT-321V-3/8** | 0.360 | 9.14 | 0.120 | 3.05 | 0.031 | 0.79 | 200 | 60.9 |
| **FIT-321V-1/2** | 0.472 | 11.99 | 0.160 | 4.06 | 0.033 | 0.84 | 150 | 45.7 |
| **FIT-321V-3/4** | 0.720 | 18.29 | 0.240 | 6.10 | 0.039 | 0.99 | 250 | 76.2 |
| **FIT-321V-1IN** | 0.945 | 24.00 | 0.315 | 8.00 | 0.048 | 1.22 | 250 | 76.2 |

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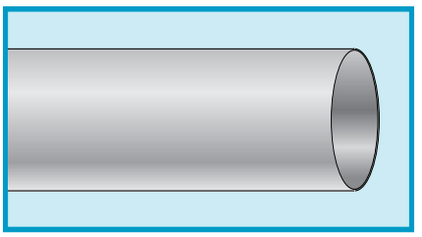
# Heat-Shrink Tubing

## FIT®-350 Heat-Shrink Tubing
## 2:1 Shrink Ratio, PVDF



**AMS-DTL-23053/8**
**UL 224 VW-1**

- Chemical resistant
- Heat resistant
- 3x the tensile strength of standard XLPO

### Operating Temperature
- -55°C to +135°C
- -55°C to +150°C (UL)

### Shrink Temperature
- 170°C min.
- 175°C full recovery

### Material
- Cross-linked polyvinylidene fluoride

### Color
- Clear

### Physical Properties
- Tensile strength: 5000 psi (34.47 N/mm$^2$)
- Elongation: 150% min
- Longitudinal change: ±10%
- Specific gravity: 1.80
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 5000 psi (34.47 N/mm$^2$)
- Lead free

### Electrical Properties
- 600 V (UL)
- Dielectric strength: 800 V/mil (315 kV/cm)
- Volume resistivity: $10^{13}$ ohm-cm

### Availability
See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | 4 ft (1.2 m) | 6" (152 mm) |
| **FIT-350-3/64** | 0.046 | 1.17 | 0.023 | 0.58 | 0.010 | 0.25 | 25 | 32 |
| **FIT-350-1/16** | 0.063 | 1.60 | 0.031 | 0.79 | 0.010 | 0.25 | 25 | 28 |
| **FIT-350-3/32** | 0.093 | 2.36 | 0.046 | 1.17 | 0.010 | 0.25 | 25 | 24 |
| **FIT-350-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.010 | 0.25 | 25 | 20 |
| **FIT-350-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.010 | 0.25 | 25 | 16 |
| **FIT-350-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.012 | 0.30 | 25 | 12 |
| **FIT-350-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.012 | 0.30 | 25 | 8 |
| **FIT-350-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.012 | 0.30 | 5 | 4 |
| **FIT-350-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.017 | 0.43 | 5 | 2 |
| **FIT-350-1IN** | 1.000 | 25.40 | 0.500 | 12.70 | 0.019 | 0.48 | 5 | 1 |

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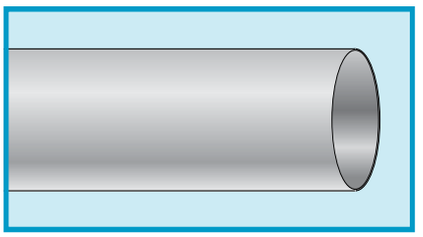
# Heat-Shrink Tubing

## FIT®-400 Heat-Shrink Tubing
## 1.2:1 Shrink Ratio, FEP



### AMS-DTL-23053/11 Class 1

- Chemical resistant
- Wide temperature range
- Excellent dielectric properties
- Thinnest wall thickness available
- Lower recovery temperature than PTFE

### Operating Temperature

- -75°C to +200°C

### Shrink Temperature

- 175°C full recovery

### Material

- FEP

### Color

- Natural

### Physical Properties

- Tensile strength: 2000 psi (13.79 N/mm$^2$)
- Elongation: 200% min
- Longitudinal change: ±15%
- Specific gravity: 2.17
- Flame rating: UL 94V-0
- Shelf life: 4 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fluid resistance: pass
- Fungus resistance: no growth
- Water absorption: 0.01% max
- Lead free

### Electrical Properties

- Dielectric strength: 2000 V/mil (787 kV/cm)
- Volume resistivity: $10^{17}$ ohm-cm

### Availability

See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability Qty, Cut Pieces at Length | |
|---|---|---|---|---|---|---|---|---|
| | Inch | Mm | Inch | mm | Inch | mm | 4 ft (1.2 m) | 2 ft (0.6 m) |
| **FIT-400-24** | 0.031 | 0.79 | 0.027 | 0.69 | 0.008 | 0.20 | 25 | – |
| **FIT-400-22** | 0.036 | 0.91 | 0.032 | 0.81 | 0.008 | 0.20 | 25 | – |
| **FIT-400-20** | 0.045 | 1.14 | 0.039 | 0.99 | 0.008 | 0.20 | 25 | – |
| **FIT-400-18** | 0.060 | 1.52 | 0.049 | 1.24 | 0.008 | 0.20 | 25 | – |
| **FIT-400-16** | 0.075 | 1.91 | 0.061 | 1.55 | 0.009 | 0.23 | 25 | – |
| **FIT-400-14** | 0.092 | 2.34 | 0.072 | 1.83 | 0.009 | 0.23 | 25 | – |
| **FIT-400-12** | 0.115 | 2.92 | 0.089 | 2.26 | 0.009 | 0.23 | 25 | – |
| **FIT-400-10** | 0.141 | 3.58 | 0.114 | 2.90 | 0.010 | 0.25 | 25 | – |
| **FIT-400-9** | 0.158 | 4.01 | 0.124 | 3.15 | 0.010 | 0.25 | 25 | – |
| **FIT-400-8** | 0.180 | 4.57 | 0.143 | 3.63 | 0.010 | 0.25 | 25 | – |
| **FIT-400-7** | 0.197 | 5.00 | 0.158 | 4.01 | 0.011 | 0.28 | 25 | – |
| **FIT-400-6** | 0.225 | 5.72 | 0.180 | 4.57 | 0.011 | 0.28 | 25 | – |
| **FIT-400-5** | 0.248 | 6.30 | 0.198 | 5.03 | 0.011 | 0.28 | – | 50 |
| **FIT-400-4** | 0.290 | 7.37 | 0.226 | 5.74 | 0.011 | 0.28 | – | 50 |
| **FIT-400-3** | 0.310 | 7.87 | 0.249 | 6.32 | 0.011 | 0.28 | – | 50 |
| **FIT-400-2** | 0.365 | 9.27 | 0.280 | 7.11 | 0.012 | 0.30 | – | 50 |
| **FIT-400-1** | 0.400 | 10.16 | 0.311 | 7.90 | 0.012 | 0.30 | – | 50 |
| **FIT-400-0** | 0.440 | 11.18 | 0.349 | 8.86 | 0.012 | 0.30 | – | 50 |

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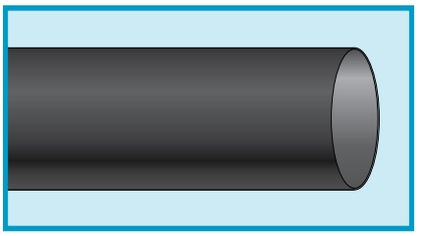
# Heat-Shrink Tubing

## FIT®-421 Heat-Shrink Tubing
## 4:1 Shrink Ratio, XLPO



**AMS-DTL-23053/5 Class 1**
**UL 224 VW-1**

- High-shrink ratio
- Large supplied diameters
- Conforms to irregular shapes
- Low water absorption
- UV resistant

### Operating Temperature
- -55°C to +135°C
- -55°C to +125°C (UL)

### Shrink Temperature
- 90°C min.
- 121°C full recovery

### Material
- Cross-linked polyolefin

### Color
- Black

### Physical Properties
- Tensile strength: 1500 psi (10.34 N/mm²)
- Elongation: 200% min
- Longitudinal change: +5%/-15%
- Specific gravity: 1.35
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1000 psi (6.89 N/mm²)
- UV resistant
- Lead free

### Electrical Properties
- 600 V (UL)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{14}$ ohm-cm

### Availability
See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability Qty, Cut Pieces at Length | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | 4 ft (1.2 m) | 15 ft (4.5 m) |
| **FIT-421-1IN** | 1.000 | 25.40 | 0.260 | 6.60 | 0.045 | 1.14 | 5 | – |
| **FIT-421-1-1/2** | 1.500 | 38.10 | 0.375 | 9.53 | 0.045 | 1.14 | 5 | – |
| **FIT-421-2IN** | 2.000 | 50.80 | 0.550 | 13.97 | 0.045 | 1.14 | 5 | – |
| **FIT-421-3IN** | 3.000 | 76.20 | 0.810 | 20.57 | 0.045 | 1.14 | 2 | – |
| **FIT-421-4IN** | 4.000 | 101.60 | 1.050 | 26.67 | 0.045 | 1.14 | 2 | |

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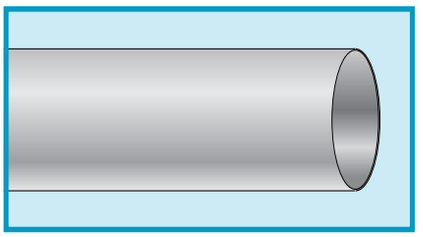
# Heat-Shrink Tubing

## FIT®-500 Heat Shrink Tubing
## 1.5:1 Shrink Ratio, PTFE



**AMS-DTL-23053/12 Class 3**

- Excellent chemical resistance
- Widest temperature range
- High tensile strength
- Excellent dielectric properties
- Extremely thin wall thickness
- Low friction coefficient

### Operating Temperature
- -75°C to +260°C

### Shrink Temperature
- 327°C full recovery

### Material
- PTFE

### Color
- Natural

### Physical Properties
- Tensile strength: 2500 psi (17.21 N/mm$^2$)
- Elongation: 200% min
- Longitudinal change: ±20%
- Specific gravity: 2.20
- Flame rating: UL 94V-0
- Shelf life: 4 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.01% max
- Fluid resistance: pass
- Lead free

### Electrical Properties
- Dielectric strength: 800 V/mil (315 kV/cm)
- Volume resistivity: $10^{18}$ ohm-cm

### Availability
See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability, Cut Pieces at Length |
|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | 2 ft (0.6 m) |
| **FIT-500-30** | 0.034 | 0.86 | 0.015 | 0.38 | 0.009 | 0.23 | 50 |
| **FIT-500-28** | 0.038 | 0.97 | 0.018 | 0.46 | 0.009 | 0.23 | 50 |
| **FIT-500-26** | 0.046 | 1.17 | 0.022 | 0.56 | 0.010 | 0.25 | 50 |
| **FIT-500-24** | 0.050 | 1.27 | 0.027 | 0.69 | 0.010 | 0.25 | 50 |
| **FIT-500-22** | 0.055 | 1.40 | 0.032 | 0.81 | 0.012 | 0.30 | 50 |
| **FIT-500-20** | 0.060 | 1.52 | 0.039 | 0.99 | 0.012 | 0.30 | 50 |
| **FIT-500-18** | 0.076 | 1.93 | 0.049 | 1.24 | 0.012 | 0.30 | 50 |
| **FIT-500-16** | 0.093 | 2.36 | 0.061 | 1.55 | 0.012 | 0.30 | 50 |
| **FIT-500-14** | 0.120 | 3.05 | 0.072 | 1.83 | 0.012 | 0.30 | 50 |
| **FIT-500-12** | 0.150 | 3.81 | 0.089 | 2.26 | 0.012 | 0.30 | 25 |
| **FIT-500-10** | 0.191 | 4.85 | 0.112 | 2.84 | 0.012 | 0.30 | 25 |
| **FIT-500-8** | 0.240 | 6.10 | 0.141 | 3.58 | 0.015 | 0.38 | 25 |
| **FIT-500-6** | 0.302 | 7.67 | 0.178 | 4.52 | 0.015 | 0.38 | 10 |
| **FIT-500-4** | 0.370 | 9.40 | 0.224 | 5.69 | 0.015 | 0.38 | 10 |
| **FIT-500-2** | 0.430 | 10.92 | 0.278 | 7.06 | 0.015 | 0.38 | 10 |
| **FIT-500-0** | 0.470 | 11.94 | 0.347 | 8.81 | 0.015 | 0.38 | 10 |

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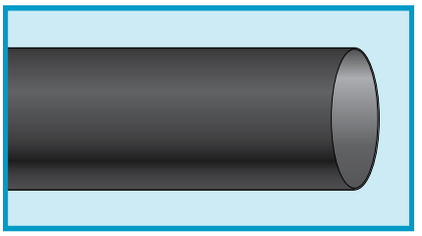
# Heat-Shrink Tubing

## FIT®-600 Heat Shrink Tubing
## 2:1 Shrink Ratio, Chlorinated PO



### AMS-DTL-23053/1 Class 1 and 2

- More flexible than standard XLPO
- 2x the tensile strength of silicone rubber
- Large tubing diameters
- Oil resistant
- Abrasion resistant

### Operating Temperature

- -75°C to +121°C

### Shrink Temperature

- 130°C min.
- 130°C full recovery

### Material

- Chlorinated polyolefin

### Color

- Black

### Physical Properties

- Tensile strength: 1500 psi (10.34 N/mm²)
- Elongation: 250% min
- Longitudinal change: +1%/-10%
- Specific gravity: 1.30
- Flame retardant
- Shelf life: 1 year at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 1.0% max
- Fluid resistance: 1000 psi (6.89 N/mm²)
- UV resistant
- Lead free

### Electrical Properties

- Dielectric strength: 300 V/mil (118 kV/cm)
- Volume resistivity: $10^{11}$ ohm-cm

### Availability

See table

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **FIT-600-1/4** | 0.250 | 6.35 | 0.143 | 3.63 | 0.035 | 0.89 | 25, 150 | 7.6, 46 |
| **FIT-600-3/8** | 0.375 | 9.53 | 0.211 | 5.36 | 0.040 | 1.02 | 25, 150 | 7.6, 46 |
| **FIT-600-1/2** | 0.500 | 12.70 | 0.286 | 7.26 | 0.048 | 1.22 | 25, 150 | 7.6, 46 |
| **FIT-600-5/8** | 0.625 | 15.88 | 0.357 | 9.07 | 0.052 | 1.32 | 25, 150 | 7.6, 46 |
| **FIT-600-3/4** | 0.750 | 19.05 | 0.428 | 10.87 | 0.057 | 1.45 | 25, 100 | 7.6, 30.5 |
| **FIT-600-7/8** | 0.875 | 22.23 | 0.500 | 12.70 | 0.065 | 1.65 | 25, 100 | 7.6, 30.5 |
| **FIT-600-1IN** | 1.000 | 25.40 | 0.570 | 14.48 | 0.070 | 1.78 | 25, 100 | 7.6, 30.5 |
| **FIT-600-1-1/4** | 1.250 | 31.75 | 0.714 | 18.14 | 0.087 | 2.21 | 25, 100 | 7.6, 30.5 |
| **FIT-600-1-1/2** | 1.500 | 38.10 | 0.857 | 21.77 | 0.095 | 2.41 | 25, 100 | 7.6, 30.5 |
| **FIT-600-1-3/4** | 1.750 | 44.45 | 1.000 | 25.40 | 0.107 | 2.72 | 25, 75 | 7.6, 22.8 |
| **FIT-600-2IN** | 2.000 | 50.80 | 1.140 | 28.96 | 0.110 | 2.79 | 25, 75 | 7.6, 22.8 |
| **FIT-600-3IN** | 3.000 | 76.20 | 1.710 | 43.43 | 0.125 | 3.18 | 25, 50 | 7.6, 15.2 |

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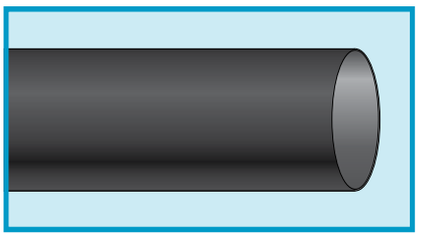
# Heat-Shrink Tubing

## FIT®-621 Heat Shrink Tubing

## 5.6:1 Shrink Ratio, Dual-Wall Flexible PO, Adhesive-Lined Inner Thick Wall



- High shrink ratios
- Heavy-duty adhesive lining
- Low water absorption
- Oil resistant
- Chemical resistant
- Abrasion resistant

### Operating Temperature

- -55°C to +90°C

### Shrink Temperature

- 121°C full recovery

### Material

- Polyolefin

### Color

Black

### Physical Properties

- Tensile strength: 1200 psi (8.27 N/mm$^2$)
- Elongation: 200% min
- Longitudinal change: -10%
- Specific gravity: 1.40
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 750 psi (5.17 N/mm$^2$)
- Halogen free
- Lead free

### Electrical Properties

- Dielectric strength: 200 V/mil (79 kV/cm)
- Volume resistivity: $10^{13}$ ohm-cm

### Availability

See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Recovered Adhesive Wall Thickness, Min. | | Availability, Qty, Cut Pieces at Length |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm | 6” (152 mm) |
| **FIT-621-5/8** | 0.600 | 15.24 | 0.150 | 3.81 | 0.060 | 1.52 | 0.050 | 1.27 | 3, 10 |
| **FIT-621-1-1/4** | 1.250 | 31.75 | 0.220 | 5.59 | 0.060 | 1.52 | 0.050 | 1.27 | 3, 10 |
| **FIT-621-2** | 2.000 | 50.80 | 0.374 | 9.50 | 0.106 | 2.69 | 0.050 | 1.27 | 3, 10, 24 |
| **FIT-621-2-1/2** | 2.500 | 63.50 | 0.500 | 12.70 | 0.120 | 3.05 | 0.050 | 1.27 | 3, 10 |
| **FIT-621-3** | 3.000 | 76.20 | 0.748 | 19.00 | 0.140 | 3.56 | 0.050 | 1.27 | 3, 10 |
| **FIT-621-4** | 4.000 | 101.60 | 0.898 | 22.81 | 0.155 | 3.94 | 0.050 | 1.27 | 3, 10 |

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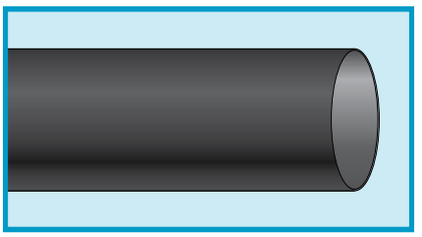
# Heat-Shrink Tubing

## FIT®-650 Heat Shrink Tubing
## 2:1 Shrink Ratio, Flexible Fluoroelastomer



**AMS-DTL-23053/13**

- Excellent chemical resistance
- Wide temperature range
- Flexible
- Oil resistant
- Fuel resistant

### Operating Temperature
- -40°C to +200°C

### Shrink Temperature
- 130°C min.
- 175°C full recovery

### Material
- Flexible fluoroelastomer

### Colors
- Black

### Physical Properties
- Tensile strength: 1200 psi (8.27 N/mm²)
- Elongation: 250% min
- Longitudinal change: ±20%
- Flammability: self-extinguishing
- Shelf life: 2 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.50% max
- Fluid resistance: 1200 psi (8.27 N/mm²)
- Lead free

### Electrical Properties
- Dielectric strength: 200 V/mil (79 kV/cm)
- Volume resistivity: $10^9$ ohm-cm

### Availability
100 ft (30.5 m)
Spools may contain multiple lengths

| Part No | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | |
|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm |
| **FIT-650-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.031 | 0.79 |
| **FIT-650-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.035 | 0.89 |
| **FIT-650-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.035 | 0.89 |
| **FIT-650-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.035 | 0.89 |
| **FIT-650-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.035 | 0.89 |
| **FIT-650-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.042 | 1.07 |
| **FIT-650-1** | 1.000 | 25.40 | 0.500 | 12.70 | 0.049 | 1.24 |
| **ST-650-1-1/2*** | 1.500 | 38.10 | 0.750 | 19.50 | 0.055 | 1.40 |

*Available in 50 ft (76 m) spools only.

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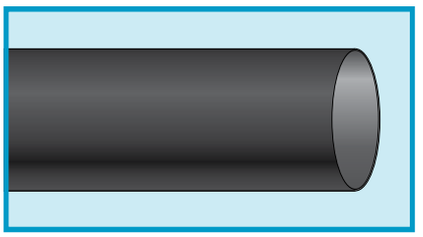
# Heat-Shrink Tubing

## FIT®-700 Heat Shrink Tubing
## 3:1 Shrink Ratio, Heavy-Wall XLPO, Thermoplastic Adhesive Lined



**ANSI C119:1**
**UL 486**
**CSA 198**

- Thermoplastic adhesive bonds to most materials
- Rated for 1 kV, 90°C continuous use
- Superior strength

### Operating Temperature
- -55°C to +110°C

### Shrink Temperature
- 120°C min.
- 120°C full recovery

### Material
- Heavy-wall cross-linked polyolefin
- Thermoplastic adhesive

### Color
- Black

### Physical Properties
- Tensile strength: 2100 psi (14.48 N/mm$^2$)
- Elongation: 600% min
- Longitudinal change: +1%/-10%
- Specific gravity: 1.10
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.10% max
- Fluid resistance: excellent
- UV resistant
- Lead free

### Electrical Properties
- Dielectric strength: 500 V/mil (196.9 kV/cm)
- Volume resistivity: $10^{17}$ ohm-cm

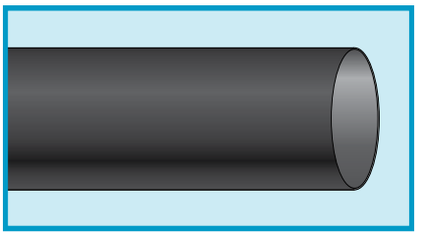
### Availability
Cut pieces (see table)

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Recovered Adhesive Wall Thickness, Min. | | Availability, Qty, Cut Pieces at Length |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm | 12" (304 mm) |
| **FIT-700-21** | 0.750 | 19.05 | 0.240 | 6.10 | 0.120 | 3.05 | 0.050 | 1.27 | 6 |
| **FIT-700-22** | 1.100 | 27.94 | 0.350 | 8.89 | 0.120 | 3.05 | 0.050 | 1.27 | 6 |
| **FIT-700-23** | 1.500 | 38.10 | 0.470 | 11.94 | 0.140 | 3.56 | 0.050 | 1.27 | 6 |
| **FIT-700-24** | 2.000 | 50.80 | 0.630 | 16.00 | 0.140 | 3.56 | 0.050 | 1.27 | 6 |
| **FIT-700-25*** | 3.000 | 76.20 | 1.250 | 31.75 | 0.160 | 4.06 | 0.050 | 1.27 | 6 |
| **FIT-700-26*** | 4.500 | 114.30 | 1.750 | 44.45 | 0.160 | 4.06 | 0.050 | 1.27 | 6 |

*Not UL or CSA listed

# Heat-Shrink Tubing

## FIT®-750 Heat Shrink Tubing
## 2:1 Shrink Ratio, XLPO, Adhesive Lined



**AMS-DTL-23053/4 Class 2**
**UL 224 VW-1**
**CSA 198**

- General-purpose adhesive-lined tubing
- Total encapsulation
- Bonding to substrates

### Operating Temperature
- -55°C to +110°C
- -55°C to +125°C (UL, CSA)

### Shrink Temperature
- 110°C min.
- 110°C full recovery

### Material
- Adhesive-lined cross-linked polyolefin

### Color
- Black

### Physical Properties
- Tensile strength: 1500 psi (10.34 N/mm$^2$)
- Elongation: 200% min
- Longitudinal change: +1%/-5%
- All tubing flame tested
- Self-extinguishing within 1 minute
- Shelf life: 3 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5% max
- Fluid resistance: 1000 psi (6.89 N/mm$^2$)
- UV resistance
- Lead free

### Electrical Properties
- 600 V (UL, CSA)
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{12}$ ohm-cm

### Availability
See table

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Recovered Adhesive Wall Thickness, Min. | | Availability, Qty, Cut Pieces at Length |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm | 4' (1219 mm) |
| **ST-302-1/8** | 0.125 | 3.18 | 0.063 | 1.60 | 0.027 | 0.69 | 0.002 | 0.05 | 25 |
| **ST-302-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.027 | 0.69 | 0.002 | 0.05 | 25 |
| **FIT-750-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.030 | 0.76 | 0.004 | 0.10 | 25 |
| **FIT-750-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.031 | 0.79 | 0.004 | 0.10 | 25 |
| **FIT-750-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.032 | 0.81 | 0.005 | 0.13 | 5 |
| **FIT-750-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.037 | 0.94 | 0.005 | 0.13 | 5 |
| **FIT-750-1IN** | 1.000 | 25.40 | 0.500 | 12.70 | 0.039 | 0.99 | 0.007 | 0.18 | 5 |
| **FIT-750-1-1/2** | 1.500 | 38.10 | 0.750 | 19.05 | 0.046 | 1.17 | 0.007 | 0.18 | 5 |

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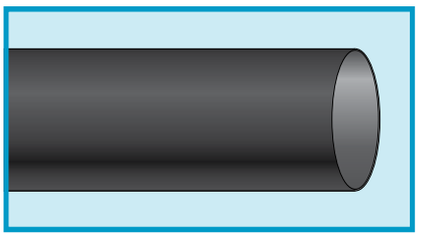
# Heat-Shrink Tubing

## FIT®-FABRIC Woven Fabric Heat-Shrink Tubing
## 2:1 Shrink Ratio



**UL 1441 (125°C)**
**MVSS 302**

- Excellent abrasion resistance
- Outstanding flexibility and durability
- Easy installation: cuts with scissors

### Operating Temperature
- -40°C to +125°C

### Shrink Temperature
- 80°C min.
- 135°C full recovery

### Material
- Polyethylene-polyester fabric

### Color
- Black

### Physical Properties
- Flame retardant
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Lead free
- Halogen free
- UV resistant

### Availability
See table

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **FIT-FAB-1** | 0.472 | 11.99 | 0.236 | 5.99 | 0.040 | 1.02 | 50, 200 | 15.2, 60.9 |
| **FIT-FAB-2** | 0.787 | 19.99 | 0.394 | 10.01 | 0.040 | 1.02 | 50, 200 | 15.2, 60.9 |
| **FIT-FAB-3** | 1.181 | 30.00 | 0.591 | 15.01 | 0.040 | 1.02 | 50, 200 | 15.2, 60.9 |
| **FIT-FAB-4** | 1.575 | 40.01 | 0.787 | 19.99 | 0.040 | 1.02 | 50, 200 | 15.2, 60.9 |
| **FIT-FAB-5** | 1.969 | 50.01 | 0.984 | 24.99 | 0.040 | 1.02 | 25, 100 | 7.6, 30.5 |
| **FIT-FAB-6** | 2.362 | 59.99 | 1.181 | 30.00 | 0.040 | 1.02 | 25, 100 | 7.6, 30.5 |
| **FIT-FAB-7** | 2.756 | 70.00 | 1.378 | 35.00 | 0.040 | 1.02 | 25, 100 | 7.6, 30.5 |

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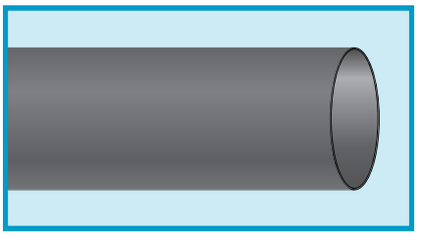
# Heat-Shrink Tubing

## FIT®-FLEX Highly Flexible Heat-Shrink Tubing
## 1.7:1 Shrink Ratio, Cross-linked Silicone Rubber



**UL 224 VW-1**

- Highly flexible over wide temperature range
- Scrape abrasion resistant
- Pliable

### Operating Temperature
- -50°C to +200°C

### Shrink Temperature
- 80°C min.
- 135°C full recovery

### Material
- Cross-linked silicone rubber

### Color
- Slate

### Physical Properties
- Tensile strength: 870 psi (5.99 N/mm$^2$)
- Elongation: 350% min
- Longitudinal change: -15%
- Specific gravity: 1.20
- Flammability: self-extinguishing
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption 1.0% max
- Lead free

### Electrical Properties
- 600 V
- Dielectric strength: 200 V/mil (79 kV/cm)
- Volume resistivity: $10^{12}$ ohm-cm

### Availability
25 ft (7.6 m)
100 ft (30.5 m)
Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | |
|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm |
| **FIT-FLEX-2** | 0.165 | 4.19 | 0.071 | 1.80 | 0.055 | 1.40 |
| **FIT-FLEX-3** | 0.263 | 6.68 | 0.114 | 2.90 | 0.055 | 1.40 |
| **FIT-FLEX-5** | 0.394 | 10.01 | 0.173 | 4.39 | 0.055 | 1.40 |
| **FIT-FLEX-6** | 0.512 | 13.00 | 0.244 | 6.20 | 0.055 | 1.40 |
| **FIT-FLEX-9** | 0.757 | 19.23 | 0.354 | 8.99 | 0.059 | 1.50 |
| **FIT-FLEX-12** | 0.984 | 24.99 | 0.492 | 12.50 | 0.079 | 2.01 |
| **FIT-FLEX-20** | 1.378 | 35.00 | 0.748 | 19.00 | 0.079 | 2.01 |

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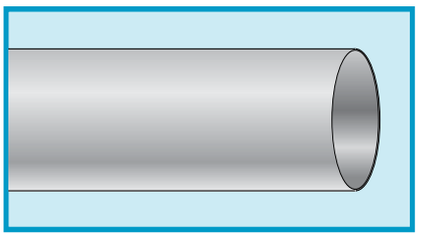
# Heat-Shrink Tubing

## FIT®-CLEAR Heat-Shrink Tubing
## 2:1 Shrink Ratio, Cross-Linked PVDF



**AMS-DTL-23053/18 Class 1**
**UL 224 VW-1**

- Excellent heat and chemical resistance
- Mechanical abrasion and cut-through resistance

### Operating Temperature
- -55°C to +175°C
- -55°C to +150°C (UL)

### Shrink Temperature
- 150°C full recovery

### Material
- Cross-linked polyvinylidene fluoride

### Color
- Clear

### Physical Properties
- Tensile strength: 3500 psi (24.13 N/mm²)
- Elongation: 200% min
- Longitudinal change: ±10%
- Specific gravity: 2.0
- Flame retardant
- Shelf life: 5 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption 0.5% max
- Fluid resistance: 2000 psi (13.79 N/mm²)
- Lead free

### Electrical Properties
- 600 V (UL)
- Dielectric strength: 400 V/mil (158 kV/cm)
- Volume resistivity: $10^{11}$ ohm-cm

### Availability
See table

Spools may contain multiple lengths

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Availability | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **FIT-CLEAR-3/64** | 0.046 | 1.17 | 0.023 | 0.58 | 0.010 | 0.25 | 100 | 30.5 |
| **FIT-CLEAR-1/16** | 0.063 | 1.60 | 0.031 | 0.79 | 0.010 | 0.25 | 100 | 30.5 |
| **FIT-CLEAR-3/32** | 0.093 | 2.36 | 0.046 | 1.17 | 0.010 | 0.25 | 100 | 30.5 |
| **FIT-CLEAR-1/8** | 0.125 | 3.18 | 0.062 | 1.57 | 0.010 | 0.25 | 100 | 30.5 |
| **FIT-CLEAR-3/16** | 0.187 | 4.75 | 0.093 | 2.36 | 0.010 | 0.25 | 100 | 30.5 |
| **FIT-CLEAR-1/4** | 0.250 | 6.35 | 0.125 | 3.18 | 0.012 | 0.30 | 100 | 30.5 |
| **FIT-CLEAR-3/8** | 0.375 | 9.53 | 0.187 | 4.75 | 0.012 | 0.30 | 100 | 30.5 |
| **FIT-CLEAR-1/2** | 0.500 | 12.70 | 0.250 | 6.35 | 0.012 | 0.30 | 50 | 15.2 |
| **FIT-CLEAR-3/4** | 0.750 | 19.05 | 0.375 | 9.53 | 0.017 | 0.43 | 50 | 15.2 |
| **FIT-CLEAR-1IN** | 1.000 | 25.40 | 0.500 | 12.70 | 0.019 | 0.48 | 50 | 15.2 |
| **FIT-CLEAR-1-1/2** | 1.500 | 38.10 | 0.750 | 19.05 | 0.020 | 0.51 | 50 | 15.2 |
| **FIT-CLEAR-2IN** | 2.000 | 50.80 | 1.000 | 25.40 | 0.020 | 0.51 | 50 | 15.2 |

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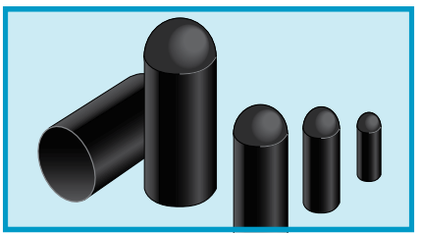
# Heat-Shrink Tubing

## CAP Molded Heat-Shrink End Caps
## 2:1 Shrink Ratio, Semirigid Polyolefin



- Abrasion resistant
- Moisture resistant

### Operating Temperature

- -55°C to +135°C

### Shrink Temperature

- 135°C full recovery

### Material

- Semirigid polyolefin

### Color

- Black

### Physical Properties

- Tensile strength: 2500 psi (1.76 N/mm$^2$)
- Elongation: 300% min
- Recovered parts may have angularity of 30° to 45°
- Specific gravity: 1.25
- Flammability: self-extinguishing
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption 0.1% max
- UV resistant
- Lead free

### Electrical Properties

- Dielectric strength: 700 V/mil (276 kV/cm)
- Volume resistivity: $10^{16}$ ohm-cm

### Availability

25-piece packages

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Recovered Length, Nom. | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **CAP-21** | 0.200 | 5.08 | 0.080 | 2.03 | 0.040 | 1.02 | 0.900 | 22.86 |
| **CAP-22** | 0.290 | 7.37 | 0.130 | 3.30 | 0.050 | 1.27 | 1.000 | 25.40 |
| **CAP-23** | 0.400 | 10.16 | 0.180 | 4.57 | 0.060 | 1.52 | 1.200 | 30.48 |
| **CAP-24** | 0.600 | 15.24 | 0.250 | 6.35 | 0.070 | 1.78 | 1.600 | 40.64 |
| **CAP-25** | 0.810 | 20.57 | 0.370 | 9.40 | 0.080 | 2.03 | 2.400 | 60.96 |
| **CAP-26** | 1.000 | 25.40 | 0.450 | 11.43 | 0.090 | 2.29 | 2.700 | 68.58 |
| **CAP-27** | 1.550 | 39.37 | 0.710 | 18.03 | 0.100 | 2.54 | 3.600 | 91.44 |

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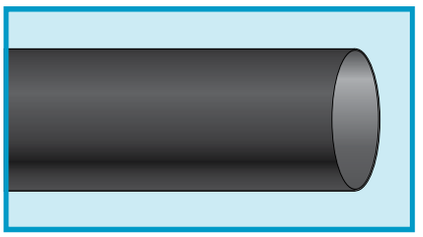
# Heat-Shrink Tubing

## SPC Heat Shrink Tubing
## 3:1 Shrink Ratio, XLPO, Heavy-Wall Thermoplastic Bonding Layer



**AMS DTL-23053/15 Class 1**

- Adhesive lined for sealing
- Thick wall for extra abrasion resistance
- Rated to 1 kV

### Operating Temperature
- -55°C to +110°C

### Shrink Temperature
- 120°C min.

### Material
- Cross-linked polyolefin

### Color
- Black

### Physical Properties
- Tensile strength: 2400 psi (138 N/mm$^2$)
- Elongation: 475% min
- Longitudinal change: +1%/-10%
- Specific gravity: 1.28
- Flame retardant, self-extinguishing
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.02%
- Fluid resistance: pass
- UV resistant
- Lead free

### Electrical Properties
- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{15}$ ohm-cm

### Availability
Sold in individual pieces
6 in. (0.1 m)
12 in. (0.3 m)
48 in. (1.2 m) bulk

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Recovered Adhesive Wall Thickness, Min. | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **SPC-400*** | 0.400 | 10.16 | 0.150 | 3.81 | 0.060 | 1.52 | 0.050 | 1.27 |
| **SPC-800*** | 0.800 | 20.32 | 0.200 | 5.08 | 0.060 | 1.52 | 0.050 | 1.27 |
| **SPC-110*** | 1.100 | 27.94 | 0.375 | 9.53 | 0.105 | 2.67 | 0.050 | 1.27 |
| **SPC-150** | 1.500 | 38.10 | 0.500 | 12.70 | 0.120 | 3.05 | 0.050 | 1.27 |
| **SPC-200** | 2.000 | 50.80 | 0.750 | 19.05 | 0.120 | 3.05 | 0.050 | 1.27 |
| **SPC-300** | 3.000 | 76.20 | 1.000 | 25.40 | 0.120 | 3.05 | 0.050 | 1.27 |

*Availability includes 6 in. (0.1 m) lengths.

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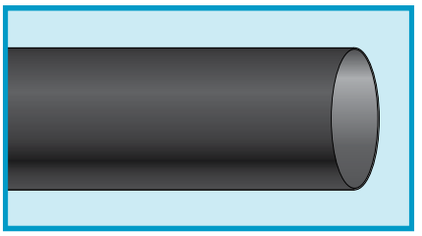
# Heat-Shrink Tubing

## SPCM Heat Shrink Tubing

## 3:1 Shrink Ratio, XLPO, Medium Wall, Thermoplastic Bonding Layer



**AMS DTL-23053/15 Class 2**

- Adhesive lined for sealing
- Medium wall for abrasion resistance
- Rated to 1 kV

### Operating Temperature

- -55°C to +200°C

### Shrink Temperature

- 120°C min.

### Material

- Cross-linked polyolefin

### Color

- Black

### Physical Properties

- Tensile strength: 2400 psi (1.38 N/mm$^2$)
- Elongation: 475% min
- Longitudinal change: +1%/-10%
- Specific gravity: 1.25
- Self-extinguishing
- Shelf life: 25 years at 18°C to 35°C

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.02%
- Fluid resistance: pass
- UV resistant
- Lead free

### Electrical Properties

- Dielectric strength: 500 V/mil (197 kV/cm)
- Volume resistivity: $10^{15}$ ohm-cm

### Availability

Sold in individual pieces
6 in. (0.1 m)
12 in. (0.3 m)
48 in. (1.2 m)

| Part No. | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | | Recovered Adhesive Wall Thickness, Min. | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **SPCM400*** | 0.400 | 10.16 | 0.150 | 3.81 | 0.050 | 1.27 | 0.040 | 1.02 |
| **SPCM800*** | 0.800 | 20.32 | 0.220 | 5.59 | 0.060 | 1.52 | 0.040 | 1.02 |
| **SPCM110*** | 1.100 | 27.94 | 0.375 | 9.53 | 0.065 | 1.65 | 0.040 | 1.02 |
| **SPCM130** | 1.300 | 33.02 | 0.375 | 9.53 | 0.065 | 1.65 | 0.040 | 1.02 |
| **SPCM150** | 1.500 | 38.10 | 0.500 | 12.70 | 0.080 | 2.03 | 0.040 | 1.02 |
| **SPCM170** | 1.700 | 43.18 | 0.500 | 12.70 | 0.100 | 2.54 | 0.040 | 1.02 |
| **SPCM200** | 2.000 | 50.80 | 0.750 | 19.05 | 0.100 | 2.54 | 0.040 | 1.02 |
| **SPCM300** | 3.000 | 76.20 | 1.000 | 25.40 | 0.100 | 2.54 | 0.040 | 1.02 |

*Availability includes 6 in. (0.1 m) lengths.

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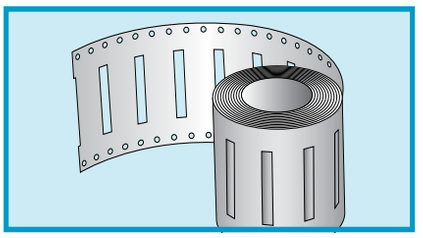
# Heat-Shrink Tubing

## FIT®-PRINT Heat-Shrinkable Identification System
## 3:1 Shrink Ratio, XLPO



**UL 224**
**CSA 198**
**MIL-STD-202F Method 215J**

- Permanent, smear-resistant marking
- Identification for cable or harness assemblies

### Operating Temperature
- -30°C to +105°C

### Shrink Temperature
- 90°C min.
- 125°C full recovery

### Material
- Cross-linked polyolefin

### Colors
- White, yellow

### Physical Properties
- Tensile strength: 1160 psi (8.0 N/mm²)
- Elongation: 150% min
- Longitudinal change: 20%
- Flame retardant
- Shelf life: 3 years at 18°C to 35°C

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.5%

### Electrical Properties
- Dielectric strength: 20 V/mil (7.9 kV/cm)
- Volume resistivity: $10^{14}$ ohm-cm

### Availability
250 tubing pieces per package

| Part No | Range | | | Supplied ID, Min. | | Recovered ID, Max. | | Recovered Wall Thickness, Nom. | |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **FIT-PRINT-1/8** | 22 - 16 | 0.344 - 1.374 | 8.74 - 34.90 | 0.125 | 3.18 | 0.042 | 1.07 | 0.023 | 0.58 |
| **FIT-PRINT-1/4** | 16 - 8 | 1.374 - 3.264 | 34.90 - 82.92 | 0.250 | 6.35 | 0.083 | 2.11 | 0.023 | 0.58 |
| **FIT-PRINT-1/2** | 8 - 2 | 3.264 - 6.543 | 82.92 - 166.19 | 0.500 | 12.70 | 0.166 | 4.22 | 0.023 | 0.58 |
| **FIT-PRINT-1** | 2 - 4/0 | 6.543 - 10.2 | 166.19 - 259.08 | 1.000 | 25.40 | 0.333 | 8.46 | 0.023 | 0.58 |

To economically meet the wire identification needs of the electronic interconnect, industrial, computer office automation, marine, and electrical markets, FIT-PRINT sleeves allow smear-resistant, permanent identification. The sleeves, available in white or high-visibility bright yellow, feed directly into dot matrix printers (high carbon content ribbon recommended). A standard ball-point pen may also be used.

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# Heat-Shrink Tubing

## FIT®-KIT

## Assorted Heat-Shrink Tubing

- **For use in R&D labs, engineering development, and maintenance departments**

### FIT-KIT-1 for General-Purpose Indoor Applications

Tubing supplied in 6" (15.2 cm) lengths unless otherwise noted.

| Family | Material | Sizes | Range | Total Quantity |
|---|---|---|---|---|
| **FIT-105** | PVC | 9 | 3/64" - 3/4" | 18 |
| **FIT-221** | XLPO | 9 | 3/64" - 3/4" | 19 |
| **FIT-295** | SR-XLPO | 8 | 3/64" - 1/2" | 12 |
| **FIT-300** | XLPO | 5 | 1/8" - 1/2" | 10 |
| **FIT-350** | PVDF | 7 | 3/64" - 3/8" | 14 |
| **FIT-CRIMP** | Nylon | 22 - 10 AWG | — | 3 pc* |
| **Caps** | XLPO | 22, 23, 24 AWG | — | 6 pc |

*1 each of FIT-CRIMP 1, 2, and 3.

### FIT-KIT-2 for General-Purpose Indoor and Outdoor Applications

Tubing supplied in 6" (15.2 cm) lengths unless otherwise noted.

| Family | Material | No. of Sizes | Range | Total Quantity |
|---|---|---|---|---|
| **FIT-105** | PVC | 9 | 3/64" - 3/4" | 18 |
| **FIT-221** | XLPO | 9 | 3/64" - 3/4" | 19 |
| **FIT-295** | SR-XLPO | 8 | 3/64" - 1/2" | 12 |
| **FIT-300** | XLPO | 5 | 1/8" - 1/2" | 10 |
| **FIT-321** | Adhesive-Lined XLPO | 2 | 1/4" - 1/2" | 16, 24* |
| **FIT-350** | PVDF | 7 | 3/64" - 3/8" | 14 |
| **FIT-400** | FEP | 6 | 24 - 12 AWG | 22 |
| **FIT-500** | PTFE | 5 | 26 - 18 AWG | 17 |
| **FIT-600** | Chlorinated PO | 5 | 1/4" - 1" | 8 |
| **FIT-700** | Thermoplastic Adhesive-Lined XLPO | 2 | 21 - 22 | 2 |
| **FIT-750** | Adhesive-Lined XLPO | 1 | 3/8" | 10* |
| **FIT-CRIMP** | Nylon | 22 - 10 AWG | — | 3 pc** |
| **Caps** | XLPO | 22, 23, and 24 | — | 6 pc |

*1"/25.4 mm length.
**1 each of FIT-CRIMP 1, 2, and 3.

### FIT-KIT-7 for General-Purpose Indoor and Outdoor Applications

Tubing supplied in 6" (15.2 cm) lengths unless otherwise noted.

| Family | Material | No. of Sizes | Range | Total Quantity |
|---|---|---|---|---|
| **FIT-105** | PVC | 7 | 1/16" - 1/2" | 14 |
| **FIT-221** | XLPO | 7 | 1/16" - 1/2" | 28 |
| **FIT-260** | XLPO (Ground Lead) | 3 | 1/8" - 1/2"" | 6 |
| **FIT-300** | XLPO | 4 | 3/8" - 1/2" | 8 |
| **FIT-321** | Adhesive-Lined XLPO | 3 | 1/8" - 1/2" | 6 |
| **FIT-350** | PVDF | 7 | 1/6" - 1/2" | 14 |
| **FIT-400** | FEP | 7 | 24 - 12 AWG | 14 |
| **FIT-750** | Adhesive-Lined XLPO | 5 | 1/4" - 1" | 10 |
| **FIT-CRIMP** | Nylon | 22 - 10 AWG | — | 12 pc* |

*4 each of FIT-CRIMP 1, 2, and 3.



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# Heat-Shrink Tubing

## FIT®-MGKIT-1

## Convenient Kit with FIT Minigun and FIT-221 Variety Pack

### FIT Minigun Characteristics

- UL 499
- To 300°C nozzle temperature
- 6 ft (1.83 m) power cord
- 10.3 oz (0.39 kg) net weight
- Workbench storage loop included
- 120 V
- 350 W
- 3 A
- Color: blue

### FIT-221-R Variety Kit

- UL 224
- CSA 198
- AMS-DTL-23053/5 Class 1
- 60 6” (15.2 cm) pieces in five sizes and various colors
- Cross-linked polyolefin
- 2:1 shrink ratio

### FIT-MGKIT-1 Contents

| Part No. | Description | Quantity |
|---|---|---|
| **FIT MINIGUN** | Lightweight, portable heat gun | 1 |
| **FIT-221-R** | FIT-221R Variety Pack | 1 kit/60 pieces |

### FIT-221-R Kit Contents

| | Tubing Size | | Number of 6” (15.2 cm) Pieces | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Inch | Mm | Black | White | Red | Blue | Yellow | Green |
| **FIT-221-1/8** | 0.125 | 3.18 | 4 | 3 | 2 | 2 | 2 | 1 |
| **FIT-221-3/16** | 0.187 | 4.75 | 4 | 3 | 2 | 2 | 2 | 1 |
| **FIT-221-1/4** | 0.250 | 6.35 | 4 | 3 | 2 | 2 | 2 | 1 |
| **FIT-221-3/8** | 0.375 | 9.53 | 3 | 2 | 1 | 1 | 1 | 1 |
| **FIT-221-1/2** | 0.500 | 12.70 | 3 | 2 | 1 | 1 | 1 | 1 |

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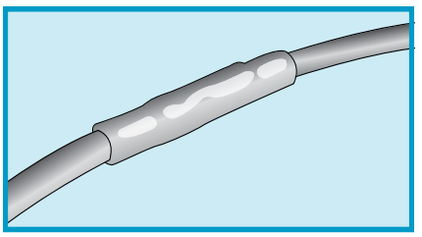
# Heat-Shrink Tubing

## FIT®-CRIMP Heat-Shrinkable Crimp Splices
## 2:1 Shrink Ratio, Nylon



**UL ZMVV**

### Operating Temperature

- -55°C to +125°C

### Materials

- Heat-shrinkable nylon
- Polyamide-based adhesive
- Tin-plated copper base metal

### Physical Properties

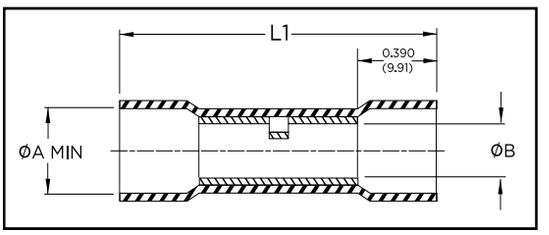
- Shelf life: 25 years at 18°C to 35°C
- Not flame retardant

### Chemical Properties

- Solvent resistance: isopropyl alcohol, trichloroethylene, gasoline, battery acid, diesel fuel, motor oil, anti-freeze, brake fluid, 5% salt water

### Availability

100-piece packages
500-piece packages




| Part No. | Wire Range | | Color | Length | | Supplied ID, Min. | | | | Recovered ID, Max. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | L1 | | A | | B | | A | |
| | AWG | mm² | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **FIT-CRIMP 1** | 22 – 18 | 0.26 – 0.96 | Red | 1.50 | 38.10 | 0.170 | 4.32 | 0.058 | 1.47 | 0.055 | 1.40 |
| **FIT-CRIMP 2** | 16 – 14 | 1.04 – 2.62 | Blue | 1.50 | 38.10 | 0.197 | 5.00 | 0.092 | 2.34 | 0.080 | 2.03 |
| **FIT-CRIMP 3** | 12 – 10 | 2.62 – 6.64 | Yellow | 1.70 | 43.18 | 0.255 | 6.48 | 0.138 | 3.51 | 0.110 | 2.79 |

Alpha's heat-shrinkable pre-insulated crimp splices completely seal electrical connections from corrosion caused by water, salts, and other contaminants. Unlike conventional splices, these adhesive-lined butt connectors provide a strong reinforced connection. They are lightweight and easy to install, too.

Simply insert the wires. The sleeve's transparent nylon insulation lets you inspect wire location and position your crimping tool fast.

Crimp the splice and then shrink and seal it with a common heat gun or other heat source. Reliable sealing plus quick and easy installation add up to protection you can count on whenever wire splices are required, including automobile and truck wiring, outdoor electrical equipment, marine equipment, telecommunications equipment, recreational equipment, and household appliances.

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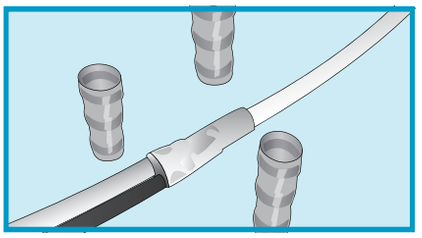
# Heat-Shrink Tubing

## FIT®-SLV Soldering Sleeves



**ANSI J-STD-004**
**ANSI J-STD-006**
**NAS 1745**

### Operating Temperature

- -55°C to +105°C (SLV 12 – 16)
- -55°C to +125°C (SLV 22 – 26)

### Sleeve Color

- Transparent blue

### Materials

- PVDF heat-shrinkable sleeve

### Solder Preform:

- 105°C Series: 51.2% tin, 30.6% lead, 18.2% cadmium (143°C melting temperature)
- 125°C Series: 63% tin, 37% lead (183°C melting temperature)

### Physical Properties:

- Shelf life: 25 years at 18°C to 35°C

### Availability

25-piece packages
100-piece packages

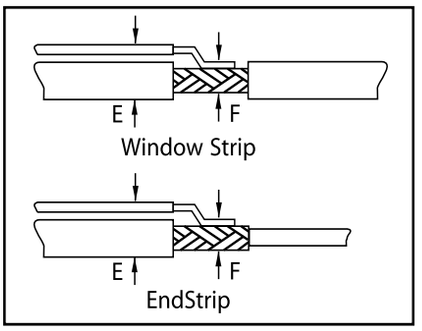
| Part No. | | Dimensions | | | | | |
|---|---|---|---|---|---|---|---|
| | | D1 min. | | D min. | | L nom. | |
| 105°C | 125°C | Inch | mm | Inch | mm | Inch | mm |
| **FIT-SLV-12** | **FIT-SLV-22** | 0.125 | 3.18 | 0.110 | 2.79 | 0.625 | 15.88 |
| **FIT-SLV-14** | **FIT-SLV-24** | 0.200 | 5.08 | 0.180 | 4.57 | 0.625 | 15.88 |
| **FIT-SLV-16** | **FIT-SLV-26** | 0.300 | 7.62 | 0.280 | 7.11 | 0.750 | 19.05 |

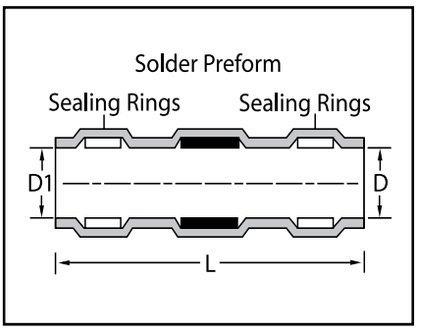
Alpha's FIT-SLV soldering sleeve is a one piece, shield ground termination system featuring a strong, low-cost soldered connection that is completely insulated and encapsulated. It consists of a heat-shrinkable thermoplastic sleeve containing a precisely engineered preform of fluxed solder and thermoplastic inserts at each end. When placed over a cable shield and heated, the solder melts and flows, connecting the ground lead and shield. The outer sleeve shrinks and the thermoplastic inserts melt, encapsulating the termination. The result is a perfectly soldered, strain-relieved and environmentally protected termination.

A solder preform ensures exact quantity of solder and flux, producing optimum solder connections for maximum strength and lowest voltage drop. Transparent heat-shrinkable insulating sleeve allows inspection of termination, and provides long-life strain relief. Meltable inserts insure complete environmental protection.

### Selection Guide

1. **Measure maximum diameter (E) and minimum diameter (F) of combined cable and ground lead.**
2. **Find appropriate Alpha part number and sleeve size in the cable and sleeve dimensions chart.**



# Heat-Shrink Tubing

## FIT® Heat Guns

| | FIT-GUN-1 | FIT-GUN-3 | FIT-Minigun |
|---|---|---|---|
| | | | |
| **Temperature, Low** | 60°C (140°F) | 316°C (600°F) | – |
| **Temperature, High** | 566°C (1050°F) | 510°C (950°F) | 300°C (572°F) |
| **Temperature Selection** | Slider switch: Off, Low, Medium, High | Slider switch: Off, Low, High | Rocker switch: Off, On |
| **Power** | 1400 W | 1300 W | 350 W |
| **Voltage** | 120 VAC/60 Hz | 120 VAC/60 Hz | 120 VAC/60 Hz |
| **Current** | 11.6 A | 10.0 A | 3 A |
| **Power Cord Length** | 6.5 ft (2 m) | 6.5 ft (2 m) | 6 ft (1.8 m) |
| **Net Weight** | 2.2 lb (1 kg) | 1.6 lb (0.68 kg) | 10.3 oz (0.39 kg) |
| **Color** | Black/gray | Black/gray | Blue |
| **Nozzle Attachments** | Reflector nozzle | – | Workbench loop |
| **Approvals** | UL 499 c UL us RoHS Compliant | UL 499 c UL us RoHS Compliant | UL 499 UL LISTED |
| **Part No.** | **FIT-GUN1** | **FIT-GUN3** | **FIT-MG1** |



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# FIT® Wire Management

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# FIT® Wire Management

## Better wire management means better harnesses

Bringing order to wire harnesses and cable routing means a system that is more reliable, easier to fabricate, and simpler to maintain. Our woven sleeves are tough and flexible. For additional resistance to chemicals, oils, and solvents, our flexible tubing offers exceptional performance and operates at temperatures as high as 260°C. Our braided shields are effective and easy to use for additional EMI protection or a ground connection.

### Neatness counts

As a leader in premium products, Alpha Wire knows wire and cable. And we know the challenges you face in creating harnesses, routing, and combating noise. Our FIT wire management products are designed to tame the most unruly applications.

### Harnessing

Make any wire harness organized, manageable, and neat with our tubing, sleeving, spiral wrap tubing, zipper tubing, and lacing tape. Our unique ZIP-GRP expandable, enclosure sleeving allows easy re-entry and unlimited wire and cable break outs with its hook and loop fastener system.

### Shielding

Add shielding easily and quickly. We offer flat, round, and oval braided shielding for additional protection against EMI and for grounding protection. Our copper foil shielding tape is backed with a highly conductive, pressure-sensitive adhesive for use in a wide variety of EMI/RFI shielding applications in cable and connector assemblies.

### Routing

Get the advantages of conduit in a flexible non-metallic, liquid-tight tubing and connection system that protects wire, copper cable, and fiber-optic cable in factories, offices, or underground installations. Use our watertight tubing to replace rigid raceways where flexibility, re-entry, or re-usability is required. Additionally, Alpha offers split looms to provide a convenient solution for your routing needs.



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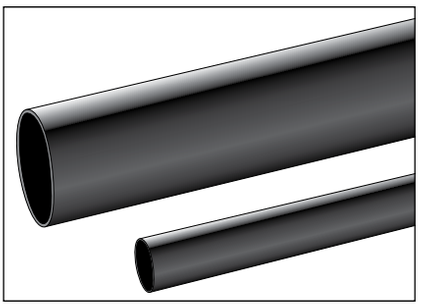
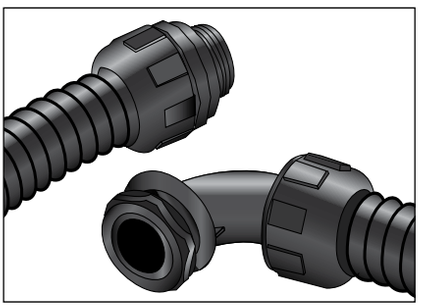
# FIT® Wire Management

## Better wire management means better harnesses



### PVC-105

PVC tubing is the workhorse choice for protecting, organizing, and routing cables.

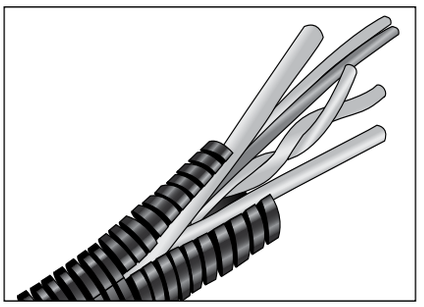


### Flexible Liquid-Tight PVC Tubing and Nylon Connectors

### FNT Tubing

### SLC and RLC Connectors

FNT PVC tubing system of wire management products for electronic and electrical wire protection provides maximum flexibility and can be used in extremely tight quarters. The tubing is excellent for general applications where maximum flexibility is required or in areas where movement, vibration, or flexing is a problem.

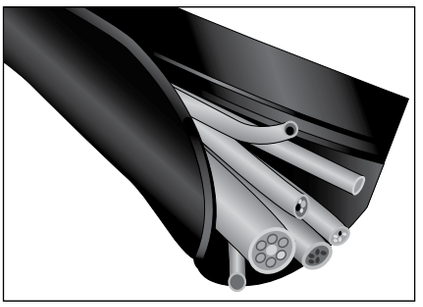


### Convoluted Slit Loom Tubing and Tee Connector Fittings

### Type 492 Tubing

### Type 493 Fittings

Flexible polyethylene loom material permits fast, easy installations and protection of harness and cable assemblies. The loom is slit full length so that it slides over the completed wire assembly easily, but closes after installation to protect the wire bundle. The slit allows for the wires to break out at any point along the cable length for custom installation. Companion snap-on connectors provide simple, clean cable junctions.



### Zipper Tubing™

### ZIP-41

Protect wire, cables, and harnesses. Alpha Zipper Tubing provides a professional finish to wiring installations by eliminating exposed wiring and providing added protection against flame, chemicals, and abrasion. With Zipper Tubing, it's possible to isolate any group of wires or cables quickly and easily, without the bother of tape wrapping. Zipper Tubing is an ideal jacketing material for use in harsh environments for production or repair of harness assemblies. Each package contains two plastic sliders.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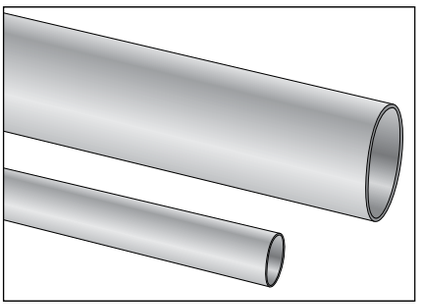
# FIT® Wire Management

## Better wire management means better harnesses

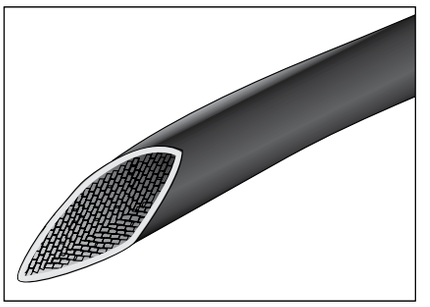


### Flexible PTFE Tubing

### TFT-200 Thin-Wall Tubing

### TFT-250 Standard-Wall Tubing

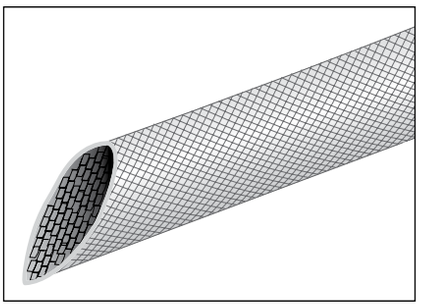
To improve the reliability of cable harnesses, PTFE tubing provides a heat and abrasion resistant wire insulator under the most adverse conditions. With an unmatched temperature range, exceptional abrasion resistance, and excellent dielectric properties, it maintains flexibility over its entire temperature range.



### PVC-Coated Fiberglass Sleeving

### PIF-130

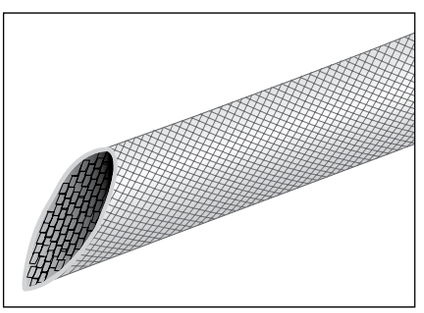
PIF-130 sleeving is a woven fiberglass braid impregnated with a heat-resistant, extremely tough, abrasion-resistant and flexible plastic insulation. The fiberglass is treated to remove all organic matter and resist fraying. The sleeving is completely compatible with all insulation and conductor types.



### Uncoated Fiberglass Sleeving

### PIF-240

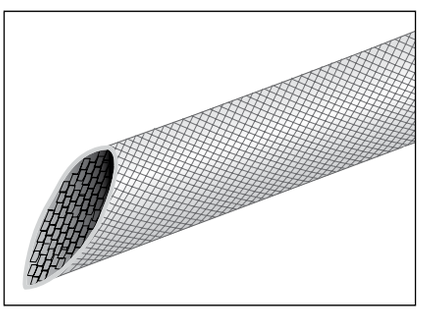
PIF-240 sleeving is extremely flexible and abrasion resistant. It is ideal for applications requiring operation up to 648°C. It is heat treated to remove all organic matter, and it is completely compatible with all insulation and conductor types.



### Acrylic-Coated Fiberglass Sleeving

### AF-155

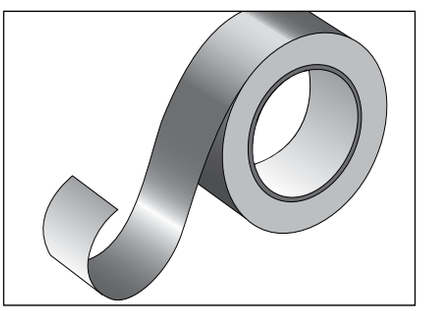
AF-155 is a specially designed fiberglass sleeving coated with a thermally stable, flexible, acrylic resin for wire and cable protection in electrical equipment. The most economical and versatile of all coated sleeving products, it offers high heat resistance, extreme flexibility, and resistance to cracking, abrasion, cut-though, and chemicals.



### Silicone-Coated Fiberglass Sleeving

### PIF-200, SF-200

PIF-200 and SF-200 sleeving offers high heat and superior electrical characteristics in a closely woven, braided fiberglass, uniformly coated with silicone rubber. It provides low temperature flexibility to -70°C and heat protection to 200°C. The fiberglass sleeving material is heat-set, cuts cleanly, and will not fray. It is easy to "pushback" and form over components, connections, and cables.



### CST Series

The pressure-sensitive adhesive contains a uniform dispersion of unique oxidation-resistant conductive particles that produce very low resistance through the tape. This feature results in shielding performance approximately 5 dB better than other metal foil shielding tapes.



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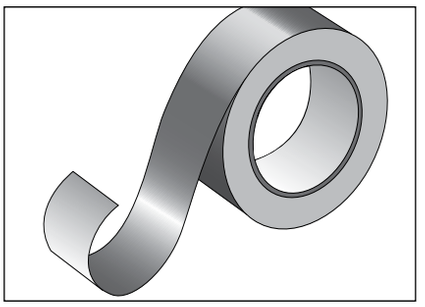
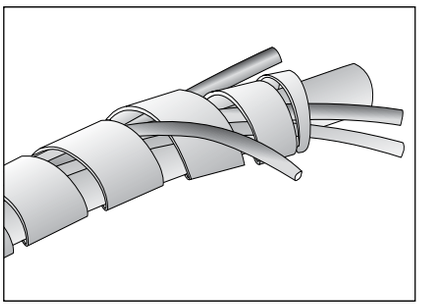
# FIT® Wire Management

## Better wire management means better harnesses



### Self-Fusing Silicone Tape

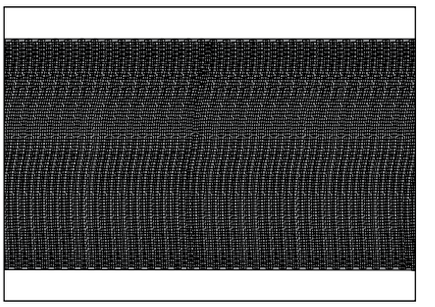
Where a masking wrap or permanently resilient insulation seal is necessary, self-adhering silicone tape is made of special unsupported silicone rubber compound that readily adheres to itself when wrapped under tension and fuses to form a homogenous mass within 24 hours at room temperature or 4 hours at 177°C. The self-adhering silicone is protected with a polyester or polyethylene liner to prevent contamination and blocking.



### Spiral Wrap Tubing

#### SW

Spiral wrap tubing simplifies wire harnessing, cabling, and bundling. Alpha's SW tubing wraps tightly to the wire and cable being bundled, yet is flexible and simple to apply. All types maintain flexibility even when bent around sharp edges. Breakouts or tapoff connections may be made through the openings of the wrap. SW spiral wrap is constructed from several semirigid tubing materials and then cut on a continual spiral.



### Expandable Braided Polyester Sleeving

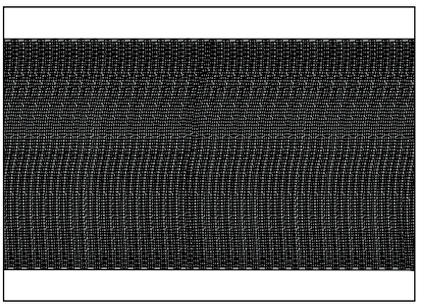
#### GRP-110, GRP-120

GRP-110/120 is a lightweight, expandable woven polyester sleeving that offers high flexibility with high resistance to abrasion and cut-through. The open weave allows for a great range of expansion of the sleeving diameter, thus ensuring ease of installation and gripping action over a wide range of shapes and sizes. GRP sleeving is an ideal protective sleeve for wire bundles, harnesses, pneumatic hoses, hydraulic lines, and highly polished or threaded machine parts.

To prevent fraying of ends, GRP-110 and GRP-120 should be cut/sealed with a hot knife.

# FIT® Wire Management

Better wire management means better harnesses



### Non-Fraying, Expandable Braid Sleeving

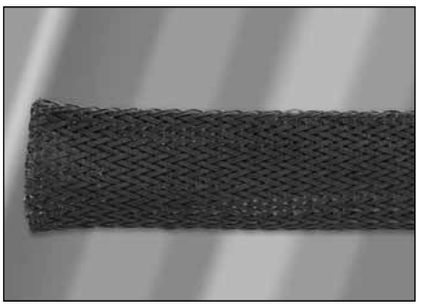
#### GRP-110NF, GRP-120NF

GRP-110NF/120NF sleeving cuts cleanly and fray-free with scissors, with no hot knife required. It is a lightweight, expandable woven polyester sleeving that offers high flexibility with high resistance to abrasion and cut-through. The open weave allows for a great range of expansion of the sleeving diameter, thus ensuring ease of installation and gripping action over a wide range of shapes and sizes. GRP sleeving is an ideal protective sleeve for wire bundles, harnesses, pneumatic hoses, hydraulic lines and highly polished or threaded machine parts.

### Wrappable Sleeving

#### GRP-130 and GRP-130NF

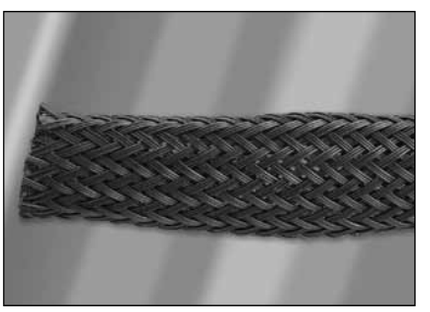
A unique split, semirigid braided construction allows GRP-130 and GRP-130NF sleeving to be installed quickly and easily. The lateral split opens up to accommodate a wide variety of bundling requirements, and then closes around the entire installation without the need for any additional fasteners. The sleeving bends to a tight radius without distorting or splitting open and, unlike full rigid tubing, will not impair or affect the flexibility of harnesses.



### Advanced Protection Expandable Sleeving

#### GRP-160

This heavy-duty, flexible sleeving is extremely versatile in any industrial application requiring abrasion protection without sacrificing flexibility or durability. GRP-160 sleeving is economical and easy to use, cutting cleanly with a hot knife, and expanding up to 50% for easy installation over plugs and connectors. It resists fuels, UV, solvents, salt water, and most chemicals.



### Advanced Chemical-Resistant Expandable Sleeving

#### GRP-170

GRP-170 is lightweight sleeving, resistant to high temperatures and virtually impervious to solvents. The sleeving resists all known solvents below 200°C chemical resistance, is inert to steam, strong bases, fuels, and acids, and offers high temperature stability, low moisture absorption, excellent dimensional stability and ultra-low wear.



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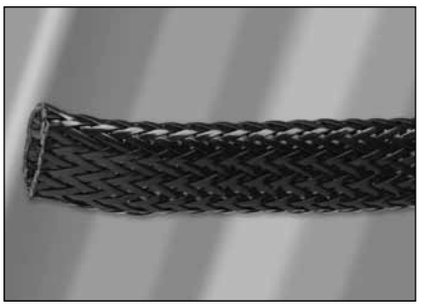
# FIT® Wire Management

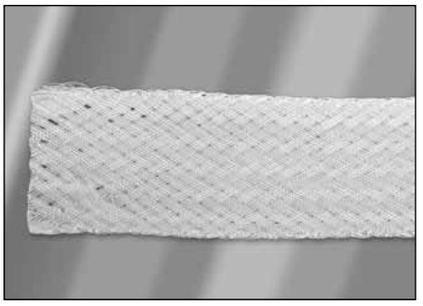
## Better wire management means better harnesses



### Maximum Protection Expandable Sleeving

#### GRP-180

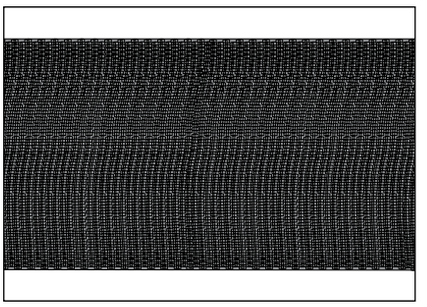
For a thick abrasion guard offering extreme protection against abrasion and cut-through on hoses and cables exposed to harsh conditions. GRP-180 provides fuller coverage for increased resistance to abrasion and penetration, and still expands for easy installation over long lengths. The braided construction allows moisture dissipate quickly to prevent rot and fungus.



### Extreme Performance Expandable Sleeving

#### GRP-200

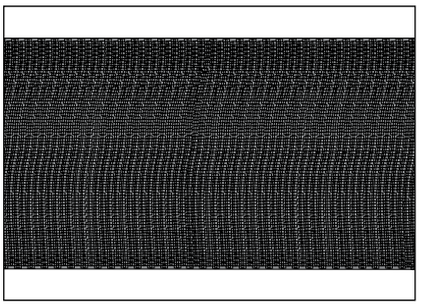
GRP-200 sleeving uses PTFE to allow the highest levels of performance, including resistance to chemicals, flame, and high temperatures. Thermal stability and low outgassing make it suited to aerospace, military, and high-tech applications. GRP-2000 sleeving is suitable for plenum applications.



### Expandable Polyester Braided Sleeving

#### XS-100HD

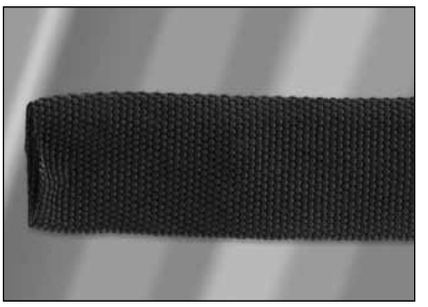
Spirally cut sleeving simplifies wiring, cabling, harnessing, and bundling where breakout or re-entry is required.



### Braided Sleeving

#### XS-200N

Durable overbraiding for military and commercial cable assemblies protects against abrasion, mildew, and aging. Type XS-200N nylon braided self-fitting cable sleeving has been designed to cover and protect both round and flat cable assemblies. The variety of sizes and self-fitting features make selection easy for solving many of the cable assembly design problems found in electronic, electrical, aerospace, process control, and robotic-automation equipment.



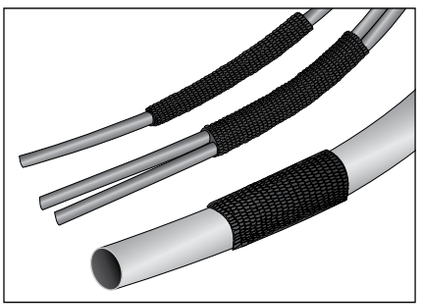
### Abrasion-Resistant Nylon Sleeving

#### XS-300

Tightly woven nylon, with a 45-mil wall thickness, makes XS3000 sleeving the perfect solution for protecting cables, hoses and ropes from weather, sunlight and abrasion damage. The sleeving is resistant to chemicals, UV damage and rot, making it suitable for continuous outdoor use under all weather conditions. The flexible sleeving cuts with a scissor and slides easily over any application.

# FIT® Wire Management

## Better wire management means better harnesses



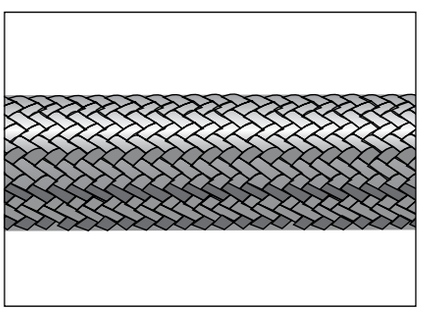
### Expandable Polyester Webbed Sleeving

#### ZIP-GRP

ZIP-GRP expandable webbing offers superb flexibility and high tensile strength while providing added protection against flame, chemicals, and abrasion. With its hook and loop fastening, wires, cable assemblies, and wire harnesses are always accessible and can be easily opened for any number of breakouts. To prevent fraying of ends, ZIP-GRP should be cut/sealed with a hot knife.

### Lacing Tape

Alpha lacing tapes offer high tensile strength and knot retention. Designed to allow a wider contact area with the insulation so that it remains in place, lacing tape is flexible and easy on the assembler's hands. Once knotted, tape resists slipping and does not increase diameter of harness. Nylon has excellent tensile strength and resists acids, abrasion, flame, and fungus. Polyester has all the characteristics of nylon, but has better resistance to acids, and no appreciable discoloration.



### Tinned and Silver-Plated Copper Braid

A tight weave of multistrand, soft drawn copper wire, either tinned or silver plated, copper braid is an ideal shielding material for short-run cables providing easy radial termination. In retrofit applications, provides additional shielding efficiency. Tinned copper flat braid, used as a ground strap, provides an excellent, low-resistance ground path.



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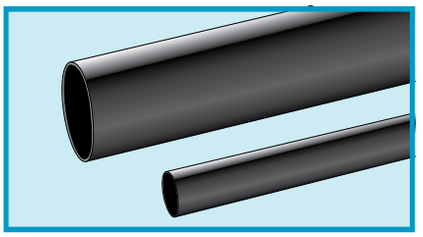
# FIT® Wire Management

## Multipurpose PVC Tubing
## PVC-105



**UL 224 VW-1**
**CSA 198**
**MIL-I-631D Type F, Form U, Subform Ua, Grade C**
**ASTM D922**

- Flexible wire protection for harnesses and ground straps
- Resistance to heat, oil, and abrasion

### Operating Temperature

- -20°C to +105°C

### Colors

- Size #24 to 1-1/2 inches: Black, clear
- 2 Inches to 2-1/2 inches: Black

### Physical Properties

- Tensile strength: 2780 psi (19.17 N/mm$^2$)
- Elongation: 260%
- Specific gravity: 1.32
- Flammability: UL 224 VW-1

### Chemical Properties

- Corrosive effect: non-corrosive
- Fungus resistance: no growth
- UV stable
- Lead free

### Electrical Properties

- Dielectric strength: 870 V/mil (343 kV/cm)
- Volume resistivity: 2 x 10$^{14}$ ohm-cm
- UL voltage rating
  Sizes #24 to #1: UL rated 300 V
  5/16 to 2 inches: UL rated 600 V

### Availability

- See table
- PVC-105-24 to PVC-105-1 are available air spooled on the largest put-ups only

| Part No. | Inside Diameter, Min. | | Inside Diameter, Max. | | Wall Thickness, Nom. | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| PVC-105-24 | 0.022 | 0.56 | 0.027 | 0.69 | 0.012 | 0.30 | 1000 | 305 |
| PVC-105-22 | 0.025 | 0.64 | 0.032 | 0.81 | 0.012 | 0.30 | 100, 1000 | 30.5, 305 |
| PVC-105-20 | 0.032 | 0.81 | 0.039 | 0.99 | 0.016 | 0.41 | 1000 | 305 |
| PVC-105-19 | 0.036 | 0.91 | 0.044 | 1.12 | 0.016 | 0.41 | 1000 | 305 |
| PVC-105-18 | 0.040 | 1.02 | 0.049 | 1.24 | 0.016 | 0.41 | 100, 1000 | 30.5, 305 |
| PVC-105-17 | 0.045 | 1.14 | 0.054 | 1.37 | 0.016 | 0.41 | 100, 1000 | 30.5, 305 |
| PVC-105-16 | 0.051 | 1.30 | 0.061 | 1.55 | 0.016 | 0.41 | 100, 1000 | 30.5, 305 |
| PVC-105-15 | 0.057 | 1.45 | 0.067 | 1.70 | 0.016 | 0.41 | 100, 1000 | 30.5, 305 |
| PVC-105-14 | 0.064 | 1.63 | 0.072 | 1.83 | 0.016 | 0.41 | 100, 500 | 30.5, 152 |
| PVC-105-13 | 0.072 | 1.83 | 0.08 | 2.03 | 0.016 | 0.41 | 100, 500 | 30.5, 152 |
| PVC-105-12 | 0.081 | 2.06 | 0.089 | 2.26 | 0.016 | 0.41 | 500 | 152 |
| PVC-105-11 | 0.091 | 2.31 | 0.101 | 2.57 | 0.016 | 0.41 | 100, 500 | 30.5, 152 |
| PVC-105-10 | 0.102 | 2.59 | 0.112 | 2.84 | 0.016 | 0.41 | 500 | 152 |
| PVC-105-9 | 0.114 | 2.90 | 0.124 | 3.15 | 0.020 | 0.51 | 500 | 152 |
| PVC-105-8 | 0.129 | 3.28 | 0.141 | 3.58 | 0.020 | 0.51 | 100, 500 | 30.5, 152 |
| PVC-105-7 | 0.144 | 3.66 | 0.158 | 4.01 | 0.020 | 0.51 | 100, 500 | 30.5, 152 |
| PVC-105-6 | 0.162 | 4.11 | 0.178 | 4.52 | 0.020 | 0.51 | 100, 500 | 30.5, 152 |
| PVC-105-5 | 0.183 | 4.65 | 0.198 | 5.03 | 0.020 | 0.51 | 100, 500 | 30.5, 152 |
| PVC-105-4 | 0.204 | 5.18 | 0.224 | 5.69 | 0.020 | 0.51 | 100, 250 | 30.5, 76 |
| PVC-105-3 | 0.229 | 5.82 | 0.249 | 6.32 | 0.020 | 0.51 | 100, 250 | 30.5, 76 |
| PVC-105-2 | 0.258 | 6.55 | 0.278 | 7.06 | 0.020 | 0.51 | 250 | 76 |
| PVC-105-1 | 0.289 | 7.34 | 0.311 | 7.90 | 0.020 | 0.51 | 100, 250 | 30.5, 76 |
| PVC-105-5/16 | 0.313 | 7.95 | 0.334 | 8.48 | 0.025 | 0.64 | 100, 250 | 30.5, 76 |
| PVC105-0 | 0.325 | 8.26 | 0.347 | 8.81 | 0.020 | 0.51 | 100, 250 | 30.5, 76 |
| PVC-105-3/8 | 0.375 | 9.53 | 0.399 | 10.13 | 0.025 | 0.64 | 100, 250 | 30.5, 76 |
| PVC-105-7/16 | 0.438 | 11.13 | 0.462 | 11.73 | 0.025 | 0.64 | 100 | 30.5 |
| PVC-105-1/2A | 0.500 | 12.70 | 0.524 | 13.31 | 0.025 | 0.64 | 100 | 30.5 |
| PVC-105-9/16 | 0.562 | 14.27 | 0.592 | 15.04 | 0.030 | 0.76 | 100 | 30.5 |
| PVC-105-5/8 | 0.625 | 15.88 | 0.655 | 16.64 | 0.030 | 0.76 | 100 | 30.5 |
| PVC-105-3/4 | 0.750 | 19.05 | 0.786 | 19.96 | 0.035 | 0.89 | 50 | 15.2 |
| PVC-105-7/8 | 0.875 | 22.23 | 0.911 | 23.14 | 0.035 | 0.89 | 50 | 15.2 |
| PVC-105-1IN | 1.000 | 25.40 | 1.036 | 26.31 | 0.035 | 0.89 | 50 | 15.2 |
| PVC-105-1-1/8 | 1.125 | 28.58 | 1.161 | 29.49 | 0.010 | 0.25 | 50 | 15.2 |
| PVC-105-1-1/4 | 1.250 | 31.75 | 1.29 | 32.77 | 0.040 | 1.02 | 50 | 15.2 |
| PVC-105-1-1/2 | 1.500 | 38.10 | 1.55 | 39.37 | 0.045 | 1.14 | 50 | 15.2 |
| PVC-105-2IN | 2.000 | 50.80 | 2.07 | 52.58 | 0.060 | 1.52 | 50 | 15.2 |
| PVC-105-2-1/2 | 2.500 | 63.50 | 2.53 | 64.26 | 0.070 | 1.78 | 50 | 15.2 |

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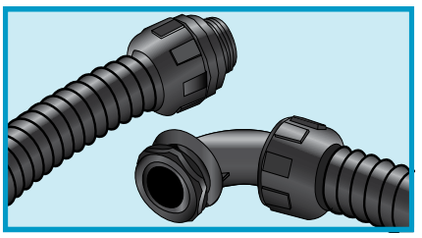
# FIT® Wire Management

## Flexible Liquid-Tight PVC Tubing
## FNT Tubing



**UL 1696**
**CSA C22.2 No. 227.3-05**

### PVC Tubing

| Part No. | Trade Size | Inside Diameter, Min. | | Inside Diameter, Max. | | Outside Diameter, Min. | | Outside Diameter, Max. | |
|---|---|---|---|---|---|---|---|---|---|
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **FNT-1/4*** | 1/4 | 0.385 | 9.78 | 0.405 | 10.29 | 0.560 | 14.22 | 0.575 | 14.61 |
| **FNT-3/8** | 3/8 | 0.484 | 12.29 | 0.504 | 12.80 | 0.690 | 17.53 | 0.710 | 18.03 |
| **FNT-1/2** | 1/2 | 0.622 | 15.80 | 0.642 | 16.31 | 0.820 | 20.83 | 0.840 | 21.34 |
| **FNT-3/4** | 3/4 | 0.820 | 20.83 | 0.840 | 21.34 | 1.030 | 26.16 | 1.050 | 26.67 |
| **FNT-1** | 1 | 1.041 | 26.44 | 1.066 | 27.08 | 1.290 | 32.77 | 1.315 | 33.40 |

*Not CSA certified

### Operating Temperature

- -18°C to +50°C

### Color

- Black

### Materials

- Liquid-tight PVC tubing

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Resists oil and water
- Lead free

### Availability

25 ft (7.5 m)
100 ft (30.5 m)

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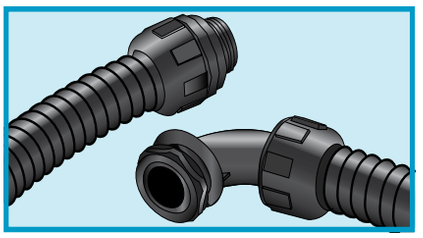
# FIT® Wire Management

## Liquid-Tight Nylon Connectors
## SLC or RLC



| Part No. | | Trade Size | Thread Size |
|---|---|---|---|
| Straight | 90° | | |
| SLC-1/4* | — | 1/4 | — |
| SLC-3/8 | RLC-3/8 | 3/8 | 1/2 NPT |
| SLC-1/2 | RLC-1/2 | 1/2 | 1/2 NPT |
| SLC-3/4 | RLC-3/4 | 3/4 | 3/4 NPT |
| SLC-1 | RLC-1 | 1 | 1 NPT |

*Snap-on connector, not CSA certified

### Operating Temperature

- +125°C

### Color

- Black

### Materials

- Nylon connector
- Supplied with o-ring and steel locking nut

### Properties

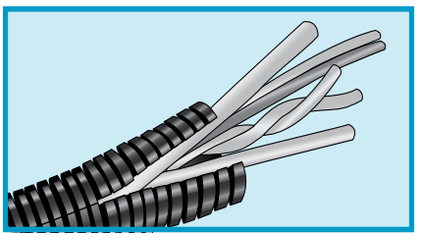
- Resists salt water, weak acids, gasoline, alcohol, oil, grease, and common solvents
- Flammability rating: UL 94V-2

### Availability

10-piece packages
100-piece packages

# FIT® Wire Management

## Convoluted Slit Loom Tubing
## Type 492



- Abrasion and fluid resistant
- Light weight
- Easy, flexible cable breakouts

| Part No. | Inside Diameter, Min. | | Inside Diameter, Max. | | Outside Diameter, Min. | | Outside Diameter, Max. | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| **492250** | 0.256 | 6.50 | 0.276 | 7.01 | 0.373 | 9.47 | 0.398 | 10.11 |
| **492350** | 0.341 | 8.66 | 0.38 | 9.65 | 0.496 | 12.60 | 0.526 | 13.36 |
| **492413** | 0.399 | 10.13 | 0.437 | 11.10 | 0.569 | 14.45 | 0.597 | 15.16 |
| **492500** | 0.473 | 12.01 | 0.516 | 13.11 | 0.664 | 16.87 | 0.70 | 17.78 |
| **492625** | 0.603 | 15.32 | 0.639 | 16.23 | 0.802 | 20.37 | 0.837 | 21.26 |
| **492750** | 0.707 | 17.96 | 0.759 | 19.28 | 0.95 | 24.13 | 0.989 | 25.12 |
| **492100** | 1.020 | 25.91 | 1.069 | 27.15 | 1.251 | 31.78 | 1.304 | 33.12 |
| **492150** | 1.566 | 39.78 | 1.647 | 41.83 | 1.867 | 47.42 | 1.947 | 49.45 |
| **492200** | 1.969 | 50.01 | 2.038 | 51.77 | 2.285 | 58.04 | 2.388 | 60.66 |

### Operating Temperature

- -40°C to +93°C

### Color

- Black

### Material

- Polyethylene

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

### Electrical Properties

- Volume resistivity: $10^{15}$ ohm-cm

### Availability

100 ft (30.5 m)

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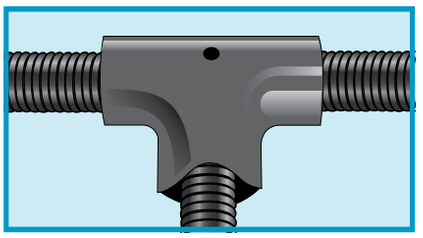
# FIT® Wire Management

## Loom Tee Connector Fittings
## Type 493



| Part No. | Mating Loom Size | | | | | |
|---|---|---|---|---|---|---|
| | Left | | Center | | Right | |
| | Inch | mm | Inch | mm | Inch | mm |
| **493100** | 0.413 or 0.500 | 10.49 or 12.70 | 0.413 or 0.500 | 10.49 or 12.70 | 0.413 or 0.500 | 10.49 or 12.70 |
| **493101** | 0.500 | 12.70 | 0.350 | 8.89 | 0.750 | 19.05 |
| **493102** | 0.500 | 12.70 | 0.413 | 10.49 | 0.750 | 19.05 |
| **493103** | 0.750 | 19.05 | 0.500 | 12.70 | 0.750 | 19.05 |
| **493110** | 0.413 | 10.49 | 0.350 | 8.89 | 0.350 | 8.89 |
| **493118** | 1.000 | 25.40 | 0.625 | 15.88 | 0.100 | 2.54 |

### Operating Temperature

- -40°C to +90°C

### Color

- Black

### Material

- Polypropylene

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

### Availability

Single pieces

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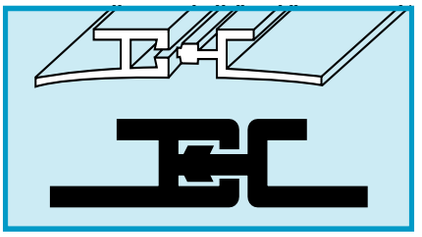
# FIT® Wire Management

## Zipper Tubing™
## ZIP-41

**MIL-I-631**
**UL 224 VW-1**



Loc-Trac® provides an effective closure that is ideal for use where the assembly will be subjected to random flexing.

Protection against flame, chemicals, and abrasion.

### Operating Temperature

- -20°C to +105°C

### Color

- Black

### Material

- PVC

### Physical Properties

- Tensile strength: 1800 psi (12.4 N/mm²)
- Elongation: 200% min.
- Flammability: UL VW-1

### Chemical Properties

- Fungus resistance: no growth
- Lead free

### Electrical Properties

- Dielectric strength: 700 V/mil (275.8 kV/cm)
- Volume resistivity: $10^{10}$ ohms/cm

### Availability

25 ft (30.5 m)
100 ft (30.5 m)

Each spool comes with two Loc-Trac fasteners and installation instructions.

| Part No. | Inside Diameter, Nom. | | Wall Thickness, Nom. | | Flat Width, Nom. | |
|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm |
| ZIP-41-1/2 | 0.500 | 12.70 | 0.020 | 0.51 | 2.000 | 50.80 |
| ZIP-41-5/8 | 0.625 | 15.88 | 0.020 | 0.51 | 2.375 | 60.33 |
| ZIP-41-3/4 | 0.750 | 19.05 | 0.020 | 0.51 | 2.750 | 69.85 |
| ZIP-41-7/8 | 0.875 | 22.23 | 0.020 | 0.51 | 3.125 | 79.38 |
| ZIP-41-1IN | 1.000 | 25.40 | 0.020 | 0.51 | 3.562 | 90.47 |
| ZIP-41-1-1/4 | 1.250 | 31.75 | 0.020 | 0.51 | 4.125 | 104.78 |
| ZIP-41-1-1/2 | 1.500 | 38.10 | 0.020 | 0.51 | 4.875 | 123.83 |
| ZIP-41-1-3/4 | 1.750 | 44.45 | 0.020 | 0.51 | 5.625 | 142.88 |
| ZIP-41-2IN | 2.000 | 50.80 | 0.020 | 0.51 | 6.375 | 161.93 |
| ZIP-41-2-1/4 | 2.250 | 57.15 | 0.020 | 0.51 | 7.500 | 190.50 |
| ZIP-41-3IN | 3.000 | 76.20 | 0.020 | 0.51 | 10.000 | 254.00 |

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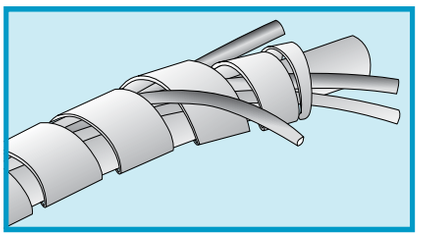
# FIT® Wire Management

## Spiral Wrap Tubing
## SW



- Flexible cable bundling
- Easy breakouts

See table for specifications

| | SW-1 to SW-6 | SW-10 to SW-14 | SW-20 to SW-25 | SW-30 to SW-35 | SW-40 to SW-45 | SW-50 to SW-53 |
|---|---|---|---|---|---|---|
| **Material** | Natural Polyethylene | Flame-Retardant Polyethylene | Nylon | PTFE | UV-Resistant Polyethylene | PVC |
| **Colors** | Natural | White | Natural | Natural, Black | Black | Black |
| **Temperature Range (°C)** | -66 to +88 | -20 to +80 | -40 to +121 | -268 to +260 | -66 to +88 | -20 to +80 |
| **Abrasion Resistance (Taber)** | 22 | 27 | 6 - 8 | 7 | 20 | Excellent |
| **Flame Rating** | Not rated | UL 1441 Self-extinguishing | Self-extinguishing | UL VW-1 | Not rated | Self-extinguishing |
| **Tensile Strength (psi (N/mm²)** | 1800 (12.41) | 1300 (8.96) | 12,000 (82.74) | 3000 (20.68) | 2000 (13.79) | 3000 (20.68) |
| **Water Absorption (%)** | 0.014 | 0.02 | 1.5 | 0.005 | 0.03 | – |
| **Dielectric Constant (Max.)** | – | 2.58 | 4.0 | 2.1 | – | – |
| **Effects of Alkalis and Acids** | None | None | None | None | None | Satisfactory* |
| **Weather Resistance** | N/A | N/A | N/A | Excellent | N/A | N/A |
| **Specs** | UL UZKX2<br>MIL-I-631D, Type A, Form U<br>MIL-P-21922B<br>ASTM 1248-65T Type 1 Class A, Grade 3<br>A-A-59602, Type 1, Class 1 | UL UZKX2<br>A-A-59602, Type 1, Class 3 | UL UZKX2<br>ASTM-D-4066, Group 2, Class 1 | UL UZKX2<br>ASTM-D-3295-01, Group 4<br>A-A-59602, Type 3, Class 1 (as noted) | UL UZKX2<br>MIL-I-631D, Type A, Form U<br>MIL-P-21922B, Type 1 Class L<br>A-A-59602, Type 1, Class 2 | – |

*Satisfactory except for high concentrations; not recommended for organic solvents.

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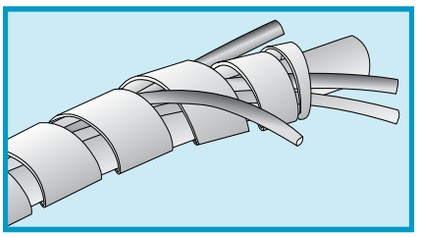
# FIT® Wire Management

## Spiral Wrap Tubing

## SW



- Flexible cable bundling
- Easy breakouts

See table for specifications

| Part No. | Material | Trade Size | Outside Diameter, Nom. | | Wall Thickness, Nom. | | Right-Hand Pitch, Nom. | | Standard Put-Ups* | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **SW-1** | Natural PE | 1/8 | 0.125 | 3.18 | 0.032 | 0.81 | 0.187 | 4.75 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-2** | Natural PE | 1/4 | 0.250 | 6.35 | 0.045 | 1.14 | 0.375 | 9.53 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-3** | Natural PE | 3/8 | 0.375 | 9.53 | 0.052 | 1.32 | 0.438 | 11.13 | 25, 100 | 7.6, 30.5 |
| **SW-4** | Natural PE | 1/2 | 0.500 | 12.70 | 0.062 | 1.57 | 0.563 | 14.30 | 25, 100 | 7.6, 30.5 |
| **SW-5** | Natural PE | 3/4 | 0.750 | 19.05 | 0.065 | 1.65 | 0.750 | 19.05 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-6** | Natural PE | 1 | 1.000 | 25.40 | 0.080 | 2.03 | 1.000 | 25.40 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-10** | FR PE | 1/8 | 0.125 | 3.18 | 0.032 | 0.81 | 0.187 | 4.75 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-11** | FR PE | 1/4 | 0.250 | 6.35 | 0.045 | 1.14 | 0.375 | 9.53 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-12** | FR PE | 3/8 | 0.375 | 9.53 | 0.052 | 1.32 | 0.438 | 11.13 | 25, 100 | 7.6, 30.5 |
| **SW-13** | FR PE | 1/2 | 0.500 | 12.70 | 0.062 | 1.57 | 0.563 | 14.30 | 25, 100 | 7.6, 30.5 |
| **SW-14** | FR PE | 3/4 | 0.750 | 19.05 | 0.065 | 1.65 | 0.750 | 19.05 | 25, 100 | 7.6, 30.5 |
| **SW-20** | Nylon | 1/8 | 0.125 | 3.18 | 0.015 | 0.38 | 0.187 | 4.75 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-21** | Nylon | 1/4 | 0.250 | 6.35 | 0.025 | 0.64 | 0.375 | 9.53 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-22** | Nylon | 3/8 | 0.375 | 9.53 | 0.035 | 0.89 | 0.438 | 11.13 | 25, 100 | 7.6, 30.5 |
| **SW-23** | Nylon | 1/2 | 0.500 | 12.70 | 0.035 | 0.89 | 0.500 | 12.70 | 25, 100 | 7.6, 30.5 |
| **SW-24** | Nylon | 3/4 | 0.750 | 19.05 | 0.032 | 0.81 | 0.750 | 19.05 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-25** | Nylon | 1 | 1.000 | 25.40 | 0.032 | 0.81 | 1.000 | 25.40 | 25, 100 | 7.6, 30.5 |
| **SW-30** | PTFE | 1/8 | 0.125 | 3.18 | 0.030 | 0.76 | 0.187 | 4.75 | 25, 100 | 7.6, 30.5 |
| **SW-31** | PTFE | 1/4 | 0.250 | 6.35 | 0.030 | 0.76 | 0.375 | 9.53 | 25, 100 | 7.6, 30.5 |
| **SW-32**** | PTFE | 3/8 | 0.375 | 9.53 | 0.030 | 0.76 | 0.438 | 11.13 | 25, 100 | 7.6, 30.5 |
| **SW-33**** | PTFE | 1/2 | 0.500 | 12.70 | 0.030 | 0.76 | 0.500 | 12.70 | 25, 100 | 7.6, 30.5 |
| **SW-34**** | PTFE | 3/4 | 0.750 | 19.05 | 0.032 | 0.81 | 0.750 | 19.05 | 25, 100 | 7.6, 30.5 |
| **SW-35** | PTFE | 1 | 1.000 | 25.40 | 0.040 | 1.02 | 1.000 | 25.40 | 25, 100 | 7.6, 30.5 |
| **SW-40** | UV-Res. PE | 1/8 | 0.125 | 3.18 | 0.032 | 0.81 | 0.187 | 4.75 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-41** | UV-Res. PE | 1/4 | 0.250 | 6.35 | 0.045 | 1.14 | 0.375 | 9.53 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-42** | UV-Res. PE | 3/8 | 0.375 | 9.53 | 0.052 | 1.32 | 0.438 | 11.13 | 25, 100 | 7.6, 30.5 |
| **SW-43** | UV-Res. PE | 1/2 | 0.500 | 12.70 | 0.062 | 1.57 | 0.500 | 12.70 | 25, 100 | 7.6, 30.5 |
| **SW-44** | UV-Res. PE | 3/4 | 0.750 | 19.05 | 0.065 | 1.65 | 0.750 | 19.05 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-45** | UV-Res. PE | 1 | 1.000 | 25.40 | 0.080 | 2.03 | 1.000 | 25.40 | 25, 100, 500 | 7.6, 30.5, 152 |
| **SW-50** | PVC | 1/8 | 0.125 | 3.18 | 0.032 | 0.81 | 0.187 | 4.75 | 25, 100 | 7.6, 30.5 |
| **SW-51** | PVC | 1/4 | 0.250 | 6.35 | 0.045 | 1.14 | 0.375 | 9.53 | 25, 100 | 7.6, 30.5 |
| **SW-52** | PVC | 3/8 | 0.375 | 9.53 | 0.052 | 1.32 | 0.438 | 11.13 | 25, 100 | 7.6, 30.5 |
| **SW-53** | PVC | 1/2 | 0.500 | 12.70 | 0.062 | 1.57 | 0.500 | 12.70 | 25, 100 | 7.6, 30.5 |

*May contain multiple lengths.
**Does not meet A-A-59602 Type 3 Class 1

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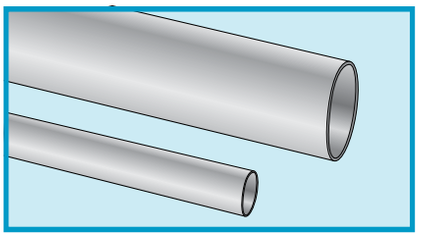
# FIT® Wire Management

## Flexible PTFE Thin-Wall Tubing
## TFT-200



**ASTM D 3295-81a Type I**
**Class B**
**AMS 3655**

- Flexible wire protection for harnesses and ground straps
- Resistance to heat, oil, and abrasion

### Operating Temperature

- -75°C to +260°C

### Color

- Natural

### Material

- PTFE

### Physical Properties

- Tensile strength: 2000 psi (13.7 N/mm²)
- Elongation: 200% min.
- Specific gravity: 2.18
- Flammability rating: UL 94V-0

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.01%
- Lead free

### Electrical Properties

- Dielectric strength: 1400 V/mil (55 kV/cm)
- Volume resistivity: $10^{18}$ ohm-cm
- Dielectric constant: 2.1

### Availability

See table

Spools may contain multiple lengths

TFT-200-7 and larger supplied as coils

| Part No. | Inside Diameter, Min. | | Inside Diameter, Max. | | Wall Thickness, Min. | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **TFT-200-30** | 0.010 | 0.25 | 0.015 | 0.38 | 0.009 | 0.23 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-200-28** | 0.013 | 0.33 | 0.018 | 0.46 | 0.009 | 0.23 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-200-26** | 0.016 | 0.41 | 0.021 | 0.53 | 0.009 | 0.23 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-200-24** | 0.020 | 0.51 | 0.026 | 0.66 | 0.010 | 0.25 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-200-22** | 0.026 | 0.66 | 0.032 | 0.81 | 0.010 | 0.25 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-200-20** | 0.032 | 0.81 | 0.04 | 1.02 | 0.012 | 0.30 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-200-19** | 0.036 | 0.91 | 0.042 | 1.07 | 0.012 | 0.30 | 100, 1000 | 30.5, 305 |
| **TFT-200-18** | 0.040 | 1.02 | 0.046 | 1.17 | 0.012 | 0.30 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-200-17** | 0.045 | 1.14 | 0.052 | 1.32 | 0.012 | 0.30 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-200-16** | 0.051 | 1.30 | 0.058 | 1.47 | 0.012 | 0.30 | 100, 1000 | 30.5, 305 |
| **TFT-200-15** | 0.057 | 1.45 | 0.065 | 1.65 | 0.012 | 0.30 | 100, 1000 | 30.5, 305 |
| **TFT-200-14** | 0.064 | 1.63 | 0.072 | 1.83 | 0.012 | 0.30 | 100, 500 | 30.5, 152 |
| **TFT-200-13** | 0.072 | 1.83 | 0.081 | 2.06 | 0.012 | 0.30 | 100, 500 | 30.5, 152 |
| **TFT-200-12** | 0.081 | 2.06 | 0.091 | 2.31 | 0.012 | 0.30 | 100, 500 | 30.5, 152 |
| **TFT-200-11** | 0.091 | 2.31 | 0.101 | 2.57 | 0.012 | 0.30 | 100, 500 | 30.5, 152 |
| **TFT-200-10** | 0.102 | 2.59 | 0.112 | 2.84 | 0.012 | 0.30 | 100, 500 | 30.5, 152 |
| **TFT-200-9** | 0.114 | 2.90 | 0.124 | 3.15 | 0.012 | 0.30 | 100, 500 | 30.5, 152 |
| **TFT-200-8** | 0.129 | 3.28 | 0.139 | 3.53 | 0.015 | 0.38 | 100 | 30.5 |
| **TFT-200-7** | 0.144 | 3.66 | 0.155 | 3.94 | 0.015 | 0.38 | 100 | 30.5 |
| **TFT-200-6** | 0.162 | 4.11 | 0.174 | 4.42 | 0.015 | 0.38 | 100* | 30.5* |
| **TFT-200-5** | 0.182 | 4.62 | 0.195 | 4.95 | 0.015 | 0.38 | 100* | 30.5* |
| **TFT-200-4** | 0.204 | 5.18 | 0.218 | 5.54 | 0.015 | 0.38 | 100* | 30.5* |
| **TFT-200-3** | 0.229 | 5.82 | 0.244 | 6.20 | 0.015 | 0.38 | 100* | 30.5* |
| **TFT-200-2** | 0.258 | 6.55 | 0.273 | 6.93 | 0.015 | 0.38 | 100* | 30.5* |
| **TFT-200-1** | 0.289 | 7.34 | 0.305 | 7.75 | 0.015 | 0.38 | 100* | 30.5* |
| **TFT-200-0** | 0.325 | 8.26 | 0.342 | 8.69 | 0.015 | 0.38 | 100* | 30.5* |

*Supplied as coils.

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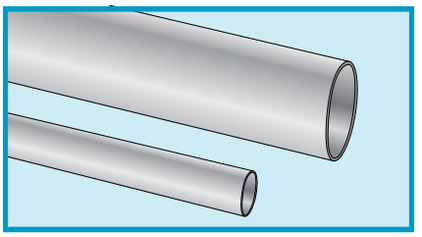
# FIT® Wire Management

## Flexible PTFE Standard-Wall Tubing
## TFT-250



**ASTM D 3295-81a Type I Class C**
**MIL-I-22129**

- Excellent heat and chemical resistance
- Flexible wire protection for harnesses and ground straps
- Resistance to heat, oil, and abrasion

### Operating Temperature

- -75°C to +260°C

### Color

- Natural

### Material

- PTFE

### Physical Properties

- Tensile strength: 2000 psi (13.7 N/mm²)
- Elongation: 200% min.
- Specific gravity: 2.18
- Flammability rating: UL 94V-0

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.01%
- Lead free

### Electrical Properties

- Dielectric strength: 1400 V/mil (551 kV/cm)
- Volume resistivity: $10^{18}$ ohm-cm
- Dielectric constant: 2.1

### Availability

See table

Spools may contain multiple lengths

TFT-200-7 and larger supplied as coils

| Part No. | Inside Diameter, Min. | | Inside Diameter, Max. | | Wall Thickness, Min. | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **TFT-250-24** | 0.020 | 0.51 | 0.026 | 0.66 | 0.012 | 0.30 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-250-22** | 0.025 | 0.64 | 0.032 | 0.81 | 0.012 | 0.30 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-250-20** | 0.032 | 0.81 | 0.040 | 1.02 | 0.016 | 0.41 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-250-19** | 0.036 | 0.91 | 0.044 | 1.12 | 0.016 | 0.41 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-250-18** | 0.040 | 1.02 | 0.049 | 1.24 | 0.016 | 0.41 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-250-17** | 0.045 | 1.14 | 0.054 | 1.37 | 0.016 | 0.41 | 100, 1000 | 30.5, 305 |
| **TFT-250-16** | 0.051 | 1.30 | 0.061 | 1.55 | 0.016 | 0.41 | 100, 500, 1000 | 30.5, 152, 305 |
| **TFT-250-15** | 0.057 | 1.45 | 0.067 | 1.70 | 0.016 | 0.41 | 100, 500 | 30.5, 152 |
| **TFT-250-14** | 0.064 | 1.63 | 0.074 | 1.88 | 0.016 | 0.41 | 100, 500 | 30.5, 152 |
| **TFT-250-13** | 0.072 | 1.83 | 0.082 | 2.08 | 0.016 | 0.41 | 100 | 30.5 |
| **TFT-250-12** | 0.081 | 2.06 | 0.091 | 2.31 | 0.016 | 0.41 | 100 | 30.5 |
| **TFT-250-11** | 0.091 | 2.31 | 0.101 | 2.57 | 0.016 | 0.41 | 100, 500 | 30.5, 152 |
| **TFT-250-10** | 0.102 | 2.59 | 0.112 | 2.84 | 0.016 | 0.41 | 100, 500 | 30.5, 152 |
| **TFT-250-9** | 0.114 | 2.90 | 0.124 | 3.15 | 0.020 | 0.51 | 100, 500 | 30.5, 152 |
| **TFT-250-8** | 0.129 | 3.28 | 0.141 | 3.58 | 0.020 | 0.51 | 100 | 30.5 |
| **TFT-250-7** | 0.144 | 3.66 | 0.158 | 4.01 | 0.020 | 0.51 | 100 | 30.5 |
| **TFT-250-6** | 0.162 | 4.11 | 0.178 | 4.52 | 0.020 | 0.51 | 100* | 30.5* |
| **TFT-250-5** | 0.182 | 4.62 | 0.196 | 4.98 | 0.020 | 0.51 | 100* | 30.5* |
| **TFT-250-4** | 0.204 | 5.18 | 0.224 | 5.69 | 0.020 | 0.51 | 100* | 30.5* |
| **TFT-250-3** | 0.229 | 5.82 | 0.249 | 6.32 | 0.020 | 0.51 | 100* | 30.5* |
| **TFT-250-2** | 0.258 | 6.55 | 0.278 | 7.06 | 0.020 | 0.51 | 100* | 30.5* |
| **TFT-250-1** | 0.289 | 7.34 | 0.311 | 7.90 | 0.020 | 0.51 | 100* | 30.5* |
| **TFT-250-0** | 0.325 | 8.26 | 0.342 | 8.69 | 0.020 | 0.51 | 100* | 30.5* |

*Supplied as coils.

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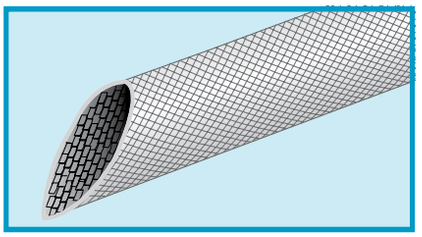
# FIT® Wire Management

## Acrylic-Coated Fiberglass Sleeving
## AF-155



**MIL-I-3190/3 Grade C1**
**NEMA TF-1**

### Operating Temperature

- -30°C to +155°C

### Color

- Natural

### Material

- Acrylic-coated fiberglass braid

### Physical Properties

- Elongation: 150% min.
- Low-temperature (-10°C) flexing: no cracking

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

### Electrical Properties

- Dielectric strength: 2500 V/mil (984 kV/cm)
- Dielectric constant: 2.5
- Volume resistivity: $10^{10}$ ohm-cm

### Availability

See table

Spools may contain multiple lengths

| Part No. | Inside Diameter, Min. | | Inside Diameter, Max. | | Wall Thickness, Min. | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **AF-155-24** | 0.020 | 0.51 | 0.027 | 0.69 | 0.006 | 0.15 | 100, 500 | 30.5, 152 |
| **AF-155-22** | 0.025 | 0.64 | 0.032 | 0.81 | 0.006 | 0.15 | 100, 500 | 30.5, 152 |
| **AF-155-20** | 0.032 | 0.81 | 0.039 | 0.99 | 0.006 | 0.15 | 100, 500 | 30.5, 152 |
| **AF-155-18** | 0.040 | 1.02 | 0.049 | 1.24 | 0.006 | 0.15 | 100, 500 | 30.5, 152 |
| **AF-155-16** | 0.051 | 1.30 | 0.061 | 1.55 | 0.006 | 0.15 | 100, 500 | 30.5, 152 |
| **AF-155-15** | 0.057 | 1.45 | 0.067 | 1.70 | 0.006 | 0.15 | 100, 500 | 30.5, 152 |
| **AF-155-14** | 0.064 | 1.63 | 0.074 | 1.88 | 0.006 | 0.15 | 100, 500 | 30.5, 152 |
| **AF-155-13** | 0.072 | 1.83 | 0.082 | 2.08 | 0.006 | 0.15 | 100, 250 | 30.5, 76 |
| **AF-155-12** | 0.081 | 2.06 | 0.091 | 2.31 | 0.006 | 0.15 | 100, 250 | 30.5, 76 |
| **AF-155-11** | 0.091 | 2.31 | 0.101 | 2.57 | 0.008 | 0.20 | 100, 250 | 30.5, 76 |
| **AF-155-10** | 0.102 | 2.59 | 0.112 | 2.84 | 0.008 | 0.20 | 100, 250 | 30.5, 76 |
| **AF-155-9** | 0.114 | 2.90 | 0.124 | 3.15 | 0.008 | 0.20 | 100, 250 | 30.5, 76 |
| **AF-155-8** | 0.129 | 3.28 | 0.141 | 3.58 | 0.008 | 0.20 | 100, 250 | 30.5, 76 |
| **AF-155-7** | 0.144 | 3.66 | 0.158 | 4.01 | 0.008 | 0.20 | 100, 250 | 30.5, 76 |
| **AF-155-6** | 0.162 | 4.11 | 0.178 | 4.52 | 0.010 | 0.25 | 100, 250 | 30.5, 76 |
| **AF-155-5** | 0.182 | 4.62 | 0.198 | 5.03 | 0.010 | 0.25 | 100, 250 | 30.5, 76 |
| **AF-155-4** | 0.204 | 5.18 | 0.224 | 5.69 | 0.010 | 0.25 | 100, 250 | 30.5, 76 |
| **AF-155-3** | 0.229 | 5.82 | 0.249 | 6.32 | 0.010 | 0.25 | 100, 250 | 30.5, 76 |
| **AF-155-2** | 0.258 | 6.55 | 0.278 | 7.06 | 0.010 | 0.25 | 100, 250 | 30.5, 76 |
| **AF-155-1** | 0.289 | 7.34 | 0.311 | 7.90 | 0.010 | 0.25 | 100, 125 | 30.5, 38 |
| **AF-155-0** | 0.325 | 8.26 | 0.347 | 8.81 | 0.016 | 0.41 | 100, 125 | 30.5, 38 |
| **AF-155-3/8** | 0.375 | 9.53 | 0.399 | 10.13 | 0.016 | 0.41 | 125, 250 | 38, 76 |
| **AF-155-7/16** | 0.438 | 11.13 | 0.462 | 11.73 | 0.016 | 0.41 | 125 | 38 |
| **AF-155-1/2** | 0.500 | 12.70 | 0.524 | 13.31 | 0.016 | 0.41 | 100 | 30.5 |
| **AF-155-5/8** | 0.625 | 15.88 | 0.655 | 16.64 | 0.016 | 0.41 | 100 | 30.5 |
| **AF-155-3/4** | 0.750 | 19.05 | 0.786 | 19.96 | 0.016 | 0.41 | 100 | 30.5 |
| **AF-155-7/8** | 0.875 | 22.23 | 0.911 | 23.14 | 0.016 | 0.41 | 100 | 30.5 |
| **AF-155-1IN** | 1.000 | 25.40 | 1.036 | 26.31 | 0.016 | 0.41 | 100 | 30.5 |

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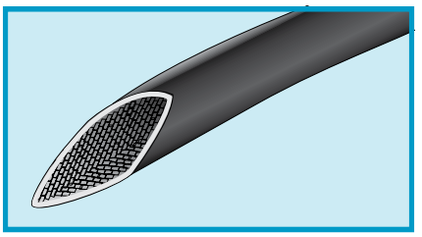
# FIT® Wire Management

## PVC-Coated Fiberglass Sleeving
## PIF-130



**UL 1441 (600 $V_{RMS}$)**
**UL VW-1**
**MIL-I-3190/2 Class 130**
**Type B Category b**
**NEMA TF-1 Grade A**

- High temperature, abrasion, and oil resistance
- Resists fraying, bending, and knotting

### Operating Temperature

- -20°C to +130°C

### Color

- Black

### Material

- PVC-coated fiberglass braid

### Chemical Properties

- Corrosive effect: non-corrosive
- Fungus resistance: no growth
- Lead free

### Electrical Properties

- Dielectric strength: 5000 V/mil (1968 kV/cm)
- Volume resistivity: $10^9$ ohm-cm

### Availability

See tables

Spools may contain multiple lengths

### Standard Wall Thickness

| Part No. | Inside Diameter, Min. | | Inside Diameter, Max. | | Wall Thickness, Min. | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **PIF-130-20** | 0.032 | 0.81 | 0.039 | 0.99 | 0.013 | 0.33 | 100, 500, 1000 | 30.5, 152, 305 |
| **PIF-130-18** | 0.040 | 1.02 | 0.049 | 1.24 | 0.015 | 0.38 | 100, 500, 1000 | 30.5, 152, 305 |
| **PIF-130-16** | 0.051 | 1.30 | 0.061 | 1.55 | 0.015 | 0.38 | 100, 1000 | 30.5, 305 |
| **PIF-130-14** | 0.064 | 1.63 | 0.074 | 1.88 | 0.015 | 0.38 | 100 | 30.5 |
| **PIF-130-12** | 0.081 | 2.06 | 0.091 | 2.31 | 0.015 | 0.38 | 100, 500 | 30.5, 152 |
| **PIF-130-10** | 0.102 | 2.59 | 0.112 | 2.84 | 0.018 | 0.46 | 100, 500 | 30.5, 152 |
| **PIF-130-8** | 0.129 | 3.28 | 0.141 | 3.58 | 0.018 | 0.46 | 100, 500 | 30.5, 152 |
| **PIF-130-6** | 0.162 | 4.11 | 0.178 | 4.52 | 0.020 | 0.51 | 100, 250 | 30.5, 76 |
| **PIF-130-4** | 0.204 | 5.18 | 0.224 | 5.69 | 0.020 | 0.51 | 100, 250 | 30.5, 76 |
| **PIF-130-2** | 0.258 | 6.55 | 0.278 | 7.06 | 0.020 | 0.51 | 100, 250 | 30.5, 76 |
| **PIF-130-0** | 0.325 | 8.26 | 0.347 | 8.81 | 0.025 | 0.64 | 100 | 30.5 |
| **PIF-130-3/8** | 0.375 | 9.53 | 0.399 | 10.13 | 0.025 | 0.64 | 100 | 30.5 |
| **PIF-130-7/16** | 0.438 | 11.13 | 0.462 | 11.73 | 0.025 | 0.64 | 100 | 30.5 |
| **PIF-130-1/2A** | 0.500 | 12.70 | 0.524 | 13.31 | 0.025 | 0.64 | 100 | 30.5 |
| **PIF-130-5/8** | 0.625 | 15.88 | 0.655 | 16.64 | 0.025 | 0.64 | 100 | 30.5 |
| **PIF-130-3/4** | 0.750 | 19.05 | 0.786 | 19.96 | 0.025 | 0.64 | 100 | 30.5 |
| **PIF-130-7/8** | 0.875 | 22.23 | 0.911 | 23.14 | 0.025 | 0.64 | 100 | 30.5 |
| **PIF-130-1IN** | 1.000 | 25.40 | 1.036 | 26.31 | 0.025 | 0.64 | 100 | 30.5 |



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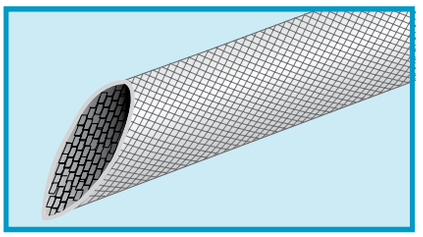
# FIT® Wire Management

## Silicone-Coated Fiberglass Sleeving
## PIF-200, SF-200



**UL 1441 (600 $V_{RMS}$)**
**MIL-I-3190/6 Class 20 Type D Category C**
**NEMA TF-1 Grade A**

- Highly flexible routing
- Extreme abrasion resistance
- Superior electrical properties

### Operating Temperature
- -70°C to +200°C

### Color
- Natural

### Material
- Silicone rubber-coated fiberglass braid

### Physical Properties
- Tensile strength: 1200 psi (8.2 N/mm²)
- Elongation: 420% min.

### Chemical Properties
- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

### Electrical Properties
- Dielectric strength: 15,000 V/mil (5905 kV/cm)
- Volume resistivity: 6 x $10^{13}$ ohm-cm
- Dielectric constant: 2.8

### Availability
See table

Spools may contain multiple lengths

| Part No. | Inside Diameter, Min. | | Inside Diameter, Max. | | Wall Thickness, Min. | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Ft | m |
| **PIF-200-24** | 0.020 | 0.51 | 0.027 | 0.69 | 0.011 | 0.28 | 100, 500, 1000 | 30.5, 152, 305 |
| **PIF-200-22** | 0.025 | 0.64 | 0.032 | 0.81 | 0.013 | 0.33 | 100, 500, 1000 | 30.5, 152, 305 |
| **PIF-200-20** | 0.032 | 0.81 | 0.039 | 0.99 | 0.013 | 0.33 | 100, 500, 1000 | 30.5, 152, 305 |
| **PIF-200-18** | 0.040 | 1.02 | 0.049 | 1.24 | 0.015 | 0.38 | 100, 500, 1000 | 30.5, 152, 305 |
| **PIF-200-17** | 0.045 | 1.14 | 0.054 | 1.37 | 0.015 | 0.38 | 500, 1000 | 152, 305 |
| **PIF-200-16** | 0.051 | 1.30 | 0.061 | 1.55 | 0.015 | 0.38 | 100, 500, 1000 | 30.5, 152, 305 |
| **PIF-200-15** | 0.057 | 1.45 | 0.067 | 1.70 | 0.015 | 0.38 | 100, 1000 | 30.5, 305 |
| **PIF-200-14** | 0.064 | 1.63 | 0.074 | 1.88 | 0.015 | 0.38 | 100, 500 | 30.5, 152 |
| **PIF-200-13** | 0.072 | 1.83 | 0.082 | 2.08 | 0.015 | 0.38 | 100, 500 | 30.5, 152 |
| **PIF-200-12** | 0.081 | 2.06 | 0.091 | 2.31 | 0.015 | 0.38 | 100, 500 | 30.5, 152 |
| **PIF-200-11** | 0.091 | 2.31 | 0.101 | 2.57 | 0.018 | 0.46 | 500 | 152 |
| **PIF-200-10** | 0.102 | 2.59 | 0.112 | 2.84 | 0.018 | 0.46 | 100, 500 | 30.5, 152 |
| **PIF-200-9** | 0.114 | 2.90 | 0.124 | 3.15 | 0.018 | 0.46 | 100, 500 | 30.5, 152 |
| **PIF-200-8** | 0.129 | 3.28 | 0.141 | 3.58 | 0.018 | 0.46 | 100, 500 | 30.5, 152 |
| **PIF-200-7** | 0.144 | 3.66 | 0.158 | 4.01 | 0.018 | 0.46 | 100, 500 | 30.5, 152 |
| **PIF-200-6** | 0.162 | 4.11 | 0.178 | 4.52 | 0.020 | 0.51 | 25, 100 | 7.6, 30.5 |
| **PIF-200-5** | 0.182 | 4.62 | 0.198 | 5.03 | 0.020 | 0.51 | 25, 100 | 7.6, 30.5 |
| **PIF-200-4** | 0.204 | 5.18 | 0.224 | 5.69 | 0.020 | 0.51 | 100 | 30.5 |
| **PIF-200-3** | 0.229 | 5.82 | 0.249 | 6.32 | 0.020 | 0.51 | 25, 100 | 7.6, 30.5 |
| **PIF-200-2** | 0.258 | 6.55 | 0.278 | 7.06 | 0.020 | 0.51 | 25, 100 | 7.6, 30.5 |
| **PIF-200-1** | 0.289 | 7.34 | 0.311 | 7.90 | 0.020 | 0.51 | 100 | 30.5 |
| **PIF-200-0** | 0.313 | 7.95 | 0.347 | 8.81 | 0.020 | 0.51 | 100 | 30.5 |
| **PIF-200-3/8** | 0.375 | 9.53 | 0.398 | 10.11 | 0.025 | 0.64 | 25, 100 | 7.6, 30.5 |
| **PIF-200-7/16** | 0.438 | 11.13 | 0.462 | 11.73 | 0.025 | 0.64 | 25, 100 | 7.6, 30.5 |
| **PIF-200-1/2A** | 0.500 | 12.70 | 0.524 | 13.31 | 0.025 | 0.64 | 25, 100 | 7.6, 30.5 |
| **PIF-200-5/8** | 0.625 | 15.88 | 0.655 | 16.64 | 0.025 | 0.64 | 25, 100 | 7.6, 30.5 |
| **SF-200-3/4** | 0.750 | 19.05 | 0.786 | 19.96 | 0.025 | 0.64 | 100 | 30.5 |
| **SF-200-7/8** | 0.875 | 22.23 | 0.911 | 23.14 | 0.025 | 0.64 | 100 | 30.5 |
| **SF-200-1IN** | 1.000 | 25.40 | 1.036 | 26.31 | 0.025 | 0.64 | 100 | 30.5 |

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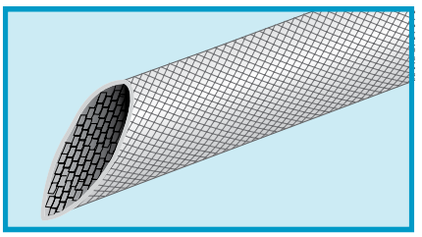
# FIT® Wire Management

## Uncoated Fiberglass Sleeving
## PIF-240



**UL 1441 (500 $V_{RMS}$)**
**UL VW-1**
**MIL-Y-1140**
**ASTM D 350/372 Class C**

- Extreme flexibility
- Extreme heat environments

### Operating Temperature

- -60°C to +648°C

### Color

- Natural

### Material

- Heat-annealed braided fiberglass

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Lead free

### Electrical Properties

- Volume resistivity: $10^{15}$ ohm-cm

### Availability

100 ft (30.5 m)

Spools may contain multiple lengths

| Part No. | Inside Diameter, Min. | | Inside Diameter, Max. | | Wall Thickness, Min. | |
|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm |
| **PIF-240-20** | 0.032 | 0.81 | 0.039 | 0.99 | 0.009 | 0.23 |
| **PIF-240-18** | 0.040 | 1.02 | 0.049 | 1.24 | 0.011 | 0.28 |
| **PIF-240-16** | 0.051 | 1.30 | 0.061 | 1.55 | 0.011 | 0.28 |
| **PIF-240-15** | 0.057 | 1.45 | 0.067 | 1.70 | 0.011 | 0.28 |
| **PIF-240-14** | 0.064 | 1.63 | 0.074 | 1.88 | 0.011 | 0.28 |
| **PIF-240-12** | 0.081 | 2.06 | 0.091 | 2.31 | 0.011 | 0.28 |
| **PIF-240-11** | 0.091 | 2.31 | 0.101 | 2.57 | 0.011 | 0.28 |
| **PIF-240-10** | 0.102 | 2.59 | 0.112 | 2.84 | 0.011 | 0.28 |
| **PIF-240-9** | 0.114 | 2.90 | 0.124 | 3.15 | 0.011 | 0.28 |
| **PIF-240-8** | 0.129 | 3.28 | 0.141 | 3.58 | 0.011 | 0.28 |
| **PIF-240-7** | 0.144 | 3.66 | 0.158 | 4.01 | 0.013 | 0.33 |
| **PIF-240-6** | 0.162 | 4.11 | 0.178 | 4.52 | 0.013 | 0.33 |
| **PIF-240-5** | 0.182 | 4.62 | 0.198 | 5.03 | 0.013 | 0.33 |
| **PIF-240-4** | 0.204 | 5.18 | 0.224 | 5.69 | 0.016 | 0.41 |
| **PIF-240-3** | 0.229 | 5.82 | 0.249 | 6.32 | 0.016 | 0.41 |
| **PIF-240-2** | 0.258 | 6.55 | 0.278 | 7.06 | 0.016 | 0.41 |
| **PIF-240-1** | 0.289 | 7.34 | 0.311 | 7.90 | 0.016 | 0.41 |
| **PIF-240-0** | 0.325 | 8.26 | 0.347 | 8.81 | 0.016 | 0.41 |
| **PIF-240-3/8** | 0.375 | 9.53 | 0.399 | 10.13 | 0.016 | 0.41 |
| **PIF-240-7/16** | 0.438 | 11.13 | 0.462 | 11.73 | 0.018 | 0.46 |
| **PIF-240-1/2A** | 0.500 | 12.70 | 0.524 | 13.31 | 0.018 | 0.46 |
| **PIF-240-5/8** | 0.625 | 15.88 | 0.655 | 16.64 | 0.018 | 0.46 |
| **PIF-240-3/4** | 0.750 | 19.05 | 0.783 | 19.89 | 0.018 | 0.46 |
| **PIF-240-7/8** | 0.875 | 22.23 | 0.991 | 25.17 | 0.018 | 0.46 |
| **PIF-240-1IN** | 1.000 | 25.40 | 1.026 | 26.06 | 0.018 | 0.46 |

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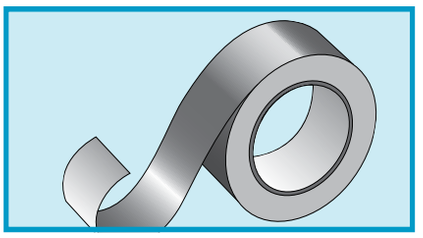
# FIT® Wire Management

## Copper EMI Shielding Tape
## CST Series



**UL 510**
**ASTM D 1000, Method 303**
**MIL-STD-202C**

- EMI shielding
- Highly conductive pressure-sensitive adhesive seal

### Operating Temperature

- -40°C to +205°C

### Color

- Copper

### Material

- Copper foil on pressure-sensitive adhesive

### Physical Properties

- Tensile strength: 21 lb/inch (0.145 N/mm²)
- Adhesion: 40 oz/inch
- Foil thickness: 0.0014 inch (0.04 mm)
- Adhesive thickness: 0.00015 inch (0.004 mm)
- Flammability: flame resistant per UL 510

### Electrical Properties

- Electrical resistance through tape: <0.003 ohms/inch² (<0.0005 ohms/cm²)
- Shielding effectiveness: 50 dB at 153 MHz

### Availability

36-yard (33 m) rolls

| Part No. | Width | |
|---|---|---|
| | Inch | mm |
| **CST-5** | 0.50 | 12.70 |
| **CST-10** | 1.00 | 25.40 |
| **CST-15** | 1.50 | 38.10 |
| **CST-20** | 2.00 | 50.80 |

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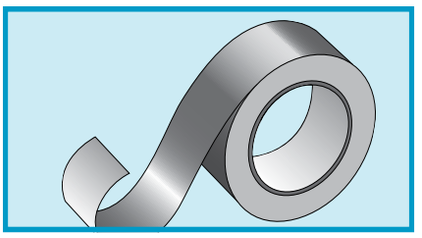
# FIT® Wire Management

## Self-Fusing Silicone Tape



### A-A-59163

- Cures within 48 hours at room temperature or 4 hours at 177°C
- No adhesive required
- Low-cost seal for electrical insulation, cables harnesses, splices, hot air ducting, and electrical wire wrap
- Conforms to irregular shapes to protect, secure, insulate, mask
- Resists outside weathering

### Operating Temperature

- -90°C to +260°C (continuous)

### Colors

- Red, black, blue, yellow, white, green

### Material

- Silicone

### Physical Properties

- Tensile strength: 700 psi (4.8 N/mm$^2$) min.
- Elongation: 300% min.
- Water absorption: 3% max.
- Bond strength: 20 lbf (25 kgf)
- Shelf life: 1 year at 37.3°C for unopened container

### Electrical Properties

- Dielectric strength: 400 V/mil (157 kV/cm)
- Volume resistivity: 1 x 10$^{13}$ ohm-cm

### Availability

- 14-ft put-ups (all colors)
- 35-ft put-ups (black, red)

| Part No. | Width | | Thickness | |
|---|---|---|---|---|
| | Inch | mm | Inch | mm |
| **TY2001** | 1.000 | 25.40 | 0.020 | 0.51 |



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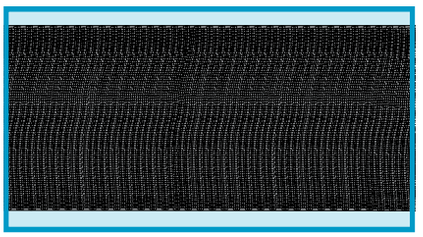
# FIT® Wire Management

## Expandable Braided Sleeving
## GRP-110, GRP-120



**UL UZKX2**
**UL VW-1 (GRP-120)**
**MIL-I-631**

- Light weight, flexible routing
- High abrasion and cut-through resistance

### Operating Temperature

- -75°C to +125°C
- 250°C melt temperature

### Color

- GRP-110: Black or natural
- GRP-120: Black with white tracer thread or white with black tracer thread

### Material

- Braided polyester
- Should be cut with hot knife

### Physical Properties

- Tensile strength:
  GRP-110: 85,000 psi (586 N/mm²)
  GRP-120: 55,000 psi (379 N/mm²)

### Chemical Properties

- Corrosive effect: noncorrosive
- Fungus resistance: no growth
- GRP-120: flame retardant
- Halogen free
- Lead free

### Availability

See tables

Spools may contain multiple lengths

### General-Purpose Sleeving

| Part No. | Inside Diameter, Min. | | Expanded Inside Diameter, Max. | | Wall Thickness | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **GRP-110-1/8** | 0.093 | 2.36 | 0.250 | 6.35 | 0.025 | 0.64 | 32 | 1 | 32 | 100, 500 | 30.5, 152 |
| **GRP-110-1/4** | 0.125 | 3.18 | 0.375 | 9.53 | 0.025 | 0.64 | 24 | 3 | 72 | 100, 500 | 30.5, 152 |
| **GRP-110-1/2** | 0.250 | 6.35 | 0.750 | 19.05 | 0.025 | 0.64 | 48 | 3 | 144 | 100, 500 | 30.5, 152 |
| **GRP-110-3/4** | 0.500 | 12.70 | 1.250 | 31.75 | 0.025 | 0.64 | 72 | 3 | 216 | 100, 500 | 30.5, 152 |
| **GRP-110-1-1/4** | 0.750 | 19.05 | 1.750 | 44.45 | 0.025 | 0.64 | 96 | 3 | 288 | 50, 250 | 15.2, 76 |
| **GRP-110-1-3/4** | 1.250 | 31.75 | 2.750 | 69.85 | 0.025 | 0.64 | 120 | 4 | 480 | 50, 250 | 15.2, 76 |
| **GRP-110-2IN** | 1.500 | 38.10 | 3.500 | 88.90 | 0.025 | 0.64 | 120 | 4 | 480 | 50, 250 | 15.2, 76 |

### Flame-Retardant Sleeving

| Part No. | Inside Diameter, Min. | | Expanded Inside Diameter, Max. | | Wall Thickness | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **GRP-120-1/8** | 0.093 | 2.36 | 0.250 | 6.35 | 0.025 | 0.64 | 32 | 1 | 32 | 100, 500 | 30.5, 152 |
| **GRP-120-1/4** | 0.125 | 3.18 | 0.375 | 9.53 | 0.025 | 0.64 | 24 | 3 | 72 | 100, 500 | 30.5, 152 |
| **GRP-120-1/2** | 0.250 | 6.35 | 0.750 | 19.05 | 0.025 | 0.64 | 48 | 3 | 144 | 100, 500 | 30.5, 152 |
| **GRP-120-3/4** | 0.500 | 12.70 | 1.250 | 31.75 | 0.025 | 0.64 | 72 | 3 | 216 | 100, 500 | 30.5, 152 |
| **GRP-120-1-1/4** | 0.750 | 19.05 | 1.750 | 44.45 | 0.025 | 0.64 | 96 | 3 | 288 | 50, 250 | 15.2, 76 |
| **GRP-120-1-3/4** | 1.250 | 31.75 | 2.750 | 69.85 | 0.025 | 0.64 | 120 | 4 | 480 | 50, 250 | 15.2, 76 |
| **GRP-120-2IN** | 1.500 | 38.10 | 3.500 | 88.90 | 0.025 | 0.64 | 120 | 4 | 480 | 50, 250 | 15.2, 76 |

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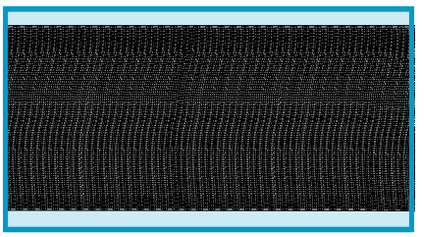
# FIT® Wire Management

## Non-Fraying, Expandable Braided Sleeving
## GRP-110NF, GRP-120NF



**UL UZKX2**
**UL VW-1 (GRP-120NF, XS-100FR)**
**CSA 5836 01**
**MIL-I-631**

- Light weight, flexible routing
- Frayless: cuts without a hot knife
- Compatible with automatic cutting machines

### Operating Temperature

- -75°C to +125°C

### Color

- GRP-110NF, XS-100: Black or natural
- GRP-120NF: Black with white tracer thread
- XS-100FR: Black or white

### Material

- Braided PET

### Physical Properties

- Tensile strength:
  GRP-110NF: 85,000 psi (586 N/mm²)
  GRP-120NF: 55,000 psi (379 N/mm²)
  XS-100/100FR: 100,000 psi (689 N/mm²)

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth

### Availability

See tables

Spools may contain multiple lengths

### General-Purpose Sleeving

| Part No. | Inside Diameter, Min. | | Expanded Inside Diameter, Max. | | Wall Thickness | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **GRP-110NF18** | 0.125 | 3.18 | 0.250 | 6.35 | 0.024 | 0.61 | 32 | 3 | 96 | 100, 500 | 30.5, 152 |
| **GRP-110NF14** | 0.156 | 3.96 | 0.438 | 11.13 | 0.024 | 0.61 | 40 | 3 | 120 | 100, 500 | 30.5, 152 |
| **GRP-110NF12** | 0.250 | 6.35 | 0.750 | 19.05 | 0.024 | 0.61 | 64 | 3 | 192 | 100, 500 | 30.5, 152 |
| **GRP-110NF34** | 0.625 | 15.88 | 1.000 | 25.40 | 0.024 | 0.61 | 80 | 3 | 240 | 100, 500 | 30.5, 152 |
| **GRP-110NF114** | 1.000 | 25.40 | 1.500 | 38.10 | 0.024 | 0.61 | 120 | 3 | 360 | 50, 250 | 15.2, 76 |
| **GRP-110NF112** | 1.250 | 31.75 | 2.000 | 50.80 | 0.024 | 0.61 | 120 | 4 | 480 | 50, 250 | 15.2, 76 |
| **XS-100-2-1/2** | 2.000 | 50.80 | 3.500 | 88.90 | 0.025 | 0.64 | 144 | 5 | 720 | 100 | 30.5 |

### Flame-Retardant Sleeving

| Part No. | Inside Diameter, Min. | | Expanded Inside Diameter, Max. | | Wall Thickness | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **GRP-120NF18** | 0.125 | 3.18 | 0.250 | 6.35 | 0.024 | 0.61 | 32 | 3 | 96 | 100, 500 | 30.5, 152 |
| **GRP-120NF14** | 0.156 | 3.96 | 0.438 | 11.13 | 0.024 | 0.61 | 40 | 3 | 120 | 100, 500 | 30.5, 152 |
| **GRP-120NF12** | 0.250 | 6.35 | 0.750 | 19.05 | 0.024 | 0.61 | 64 | 3 | 192 | 100, 500 | 30.5, 152 |
| **GRP-120NF34** | 0.625 | 15.88 | 1.000 | 25.40 | 0.024 | 0.61 | 80 | 3 | 240 | 100, 500 | 30.5, 152 |
| **GRP-120NF114** | 1.000 | 25.40 | 1.500 | 38.10 | 0.024 | 0.61 | 120 | 3 | 360 | 50, 250 | 15.2, 76 |
| **GRP-120NF112** | 1.250 | 31.75 | 2.000 | 50.80 | 0.024 | 0.61 | 120 | 4 | 480 | 50, 250 | 15.2, 76 |
| **XS-100FR-2-1/2** | 2.000 | 50.80 | 3.500 | 88.90 | 0.025 | 0.64 | 144 | 5 | 720 | 100 | 30.5 |



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# FIT® Wire Management

## Flexible, Semirigid Wrappable Sleeving
## GRP-130 and GRP-130NF

The choice for a wide variety of bundling applications without the need for additional fasteners

**UL UZKX2**
**UL 94V-0 (GRP-130)**
**UL VW1 (GRP-130NF)**
**CSA 5836 01 FT2**
**FAR 25 (GRP-130NR)**

- Bends tightly without distorting or opening
- 25% edge overlap to accommodate connectors and splices
- Fast, easy wrap-around installation
- More flexible than spiral wrap or split convoluted tubing

### Operating Temperature

- -70°C to +125°C
- GRP-130: 230°C melt temperature
- GRP-130NF: 250°C melt temperature

### Color

- GRP-130: Black or orange
- GRP-130NF: Black with white tracer

### Materials

- 10-mil PET braid
- Cuts with hot knife

### Physical Properties

- Tensile strength:
  GRP-130: 6 psi (0.04 N/mm²)
  GRP-130NF: 4 psi (0.02 N/mm²)
- Specific gravity: 1.38 max

### Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 0.10% max
- UV resistant
- Halogen free
- Lead free

### Availability

See table
Reels may contain multiple lengths

The GRP-130 installation tool makes installing long length of GRP-130 sleeving fast and easy. Simply insert your wire bundle into the tool's shank and slide the tool along the split in the sleeving. The tool deposits the wires and allows the split to close correctly.

| Part No. | | Size | | Wall Thickness (Min) | | Ends per Carrier Alternating | Standard Put-Ups | | Installation Tool Part No. |
|---|---|---|---|---|---|---|---|---|---|
| Black | Black w/ Tracer | Inch | mm | Inch | mm | | Ft | m | |
| GRP-130-1/8 | GRP-130NF-18 | 0.125 | 3.18 | 0.024 | 3.18 | 1/3 | 50, 200 | 15.2, 71 | GRP-130T-1/4 |
| GRP-130-1/4 | GRP-130NF-14 | 0.250 | 6.35 | 0.025 | 6.35 | 1/3 | 50, 200 | 15.2, 71 | GRP-130T-1/4 |
| GRP-130-3/8 | GRP-130NF-38 | 0.375 | 9.53 | 0.025 | 9.53 | 1/3 | 50, 100 | 15.2, 30.5 | GRP-130T-1/2 |
| GRP-130-1/2 | GRP-130NF-12 | 0.500 | 12.70 | 0.025 | 12.70 | 1/3 | 50, 100 | 15.2, 30.5 | GRP-130T-1/2 |
| GRP-130-3/4 | GRP-130NF-34 | 0.750 | 19.05 | 0.025 | 19.05 | 1/3 | 50, 100 | 15.2, 30.5 | GRP-130T-3/4 |
| GRP-130-1IN | GRP-130NF-1IN | 1.000 | 25.40 | 0.038 | 25.40 | 1/3 | 50, 100 | 15.2, 30.5 | GRP-130T-1IN |
| GRP-130-1-1/4 | GRP-130NF-1-14 | 1.250 | 31.75 | 0.038 | 31.75 | 1/3 | 25 | 7.6 | GRP-130T-1-1/4 |
| GRP-130-1-1/2 | GRP-130NF-1-12 | 1.500 | 38.10 | 0.038 | 38.10 | 1/3 | 25 | 7.6 | GRP-130T-1-1/4 |
| GRP-130-2IN | GRP-130NF-2IN | 2.000 | 50.80 | 0.038 | 50.80 | 2/3 | 25 | 7.6 | GRP-130T-1-1/4* |

*Designed for up to 1.22" cable diameter

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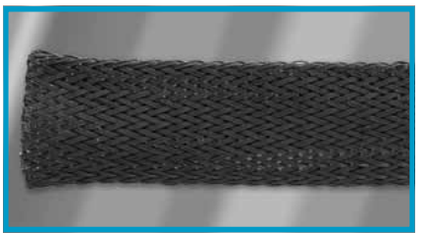
## Advanced Protection Expandable Sleeving
## GRP-160



An economical, easy-to-use choice for advanced abrasion and cut-through protection

- Extreme abrasion resistance without losing flexibility or durability
- Cuts cleanly with hot knife
- Resists fuels, solvents, salt water, chemicals, and UV
- Expandable to 150%

### Operating Temperature

- -45°C to +150°C
- 256°C melt temperature

### Color

- Black

### Materials

- 20-mil nylon polyamide monofilament

### Physical Properties

- Tensile strength: 19 psi (0.13 N/mm²)
- Specific gravity: 1.14 max

### Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 2.50% max
- UV resistant
- Halogen free
- Lead free

### Availability

See table
Reels may contain multiple lengths

| Part No. | Nominal Size | | Expansion Range | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **GRP-160-1/4** | 1/4 | 6.35 | 0.250 - 0.500 | 6.35 - 12.70 | 20 | 3 | 60 | 50, 250 | 15.2, 76 |
| **GRP-160-1/2** | 1/2 | 12.70 | 0.500 - 1.000 | 12.70 - 25.40 | 36 | 3 | 108 | 50, 250 | 15.2, 76 |
| **GRP-160-3/4** | 3/4 | 19.05 | 0.750 - 1.250 | 19.05 - 31.75 | 40 | 3 | 120 | 50, 250 | 15.2, 76 |
| **GRP-160-1IN** | 1 | 25.40 | 1.000 - 1.500 | 25.40 - 38.10 | 48 | 3 | 144 | 50, 250 | 15.2, 76 |
| **GRP-160-1-1/4** | 1-1/4 | 31.75 | 1.250 - 2.000 | 31.75 - 50.80 | 56 | 3 | 168 | 50, 250 | 15.2, 76 |
| **GRP-160-1-3/4** | 1-3/4 | 44.45 | 1.750 - 2.750 | 44.45 - 69.85 | 72 | 3 | 216 | 50, 250 | 15.2, 76 |
| **GRP-160-2-1/4** | 2-1/4 | 57.15 | 2.250 - 3.000 | 57.15 - 76.20 | 96 | 3 | 288 | 25, 100 | 7.6, 30.5 |

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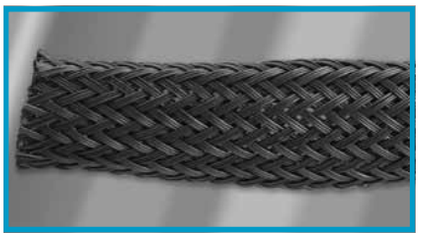
# FIT® Wire Management

## Advanced Chemical Resistance Expandable Sleeving
## GRP-170



The extremely lightweight sleeving that is impervious to virtually all chemicals

**UL 94V-0**
**FAR 25**

- Resists acids, bases, solvents, and fuels
- Ultra-lightweight
- High abrasion resistance
- Expandable to 150%
- Flame resistant
- Cuts cleanly with hot knife

### Operating Temperature

- -70°C to +200°C
- 285°C melt temperature

### Color

- Black

### Materials

- 8-mil-diameter polyphenylene sulfide (PPS) monofilaments
- Cuts with hot knife

### Physical Properties

- Specific gravity: 1.37 max
- Flame resistant

### Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 0.025% max
- Low outgassing
- UV resistant
- Halogen free
- Lead free

### Availability

See table
Reels may contain multiple lengths

| Part No. | Nominal Size | | Expansion Range | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **GRP-170-1/8** | 1/8 | 3.18 | 0.094 – 0.250 | 2.38 – 6.35 | 32 | 2 | 64 | 100, 500 | 30.5, 152 |
| **GRP-170-1/4** | 1/4 | 6.35 | 0.125 – 0.375 | 3.18 – 9.53 | 48 | 2 | 96 | 100, 500 | 30.5, 152 |
| **GRP-170-1/2** | 1/2 | 12.70 | 0.250 – 0.750 | 6.35 – 19.05 | 56 | 3 | 168 | 100, 500 | 30.5, 152 |
| **GRP-170-3/4** | 3/4 | 19.05 | 0.500 – 1.250 | 12.70 – 31.75 | 72 | 3 | 216 | 50, 250 | 15.2, 76 |
| **GRP-170-1-1/4** | 1-1/4 | 31.75 | 0.750 – 1.750 | 19.05 – 44.45 | 96 | 4 | 384 | 50, 250 | 15.2, 76 |
| **GRP-170-1-3/4** | 1-3/4 | 44.45 | 1.250 – 2.500 | 31.75 – 63.50 | 120 | 4 | 480 | 50, 250 | 15.2, 76 |

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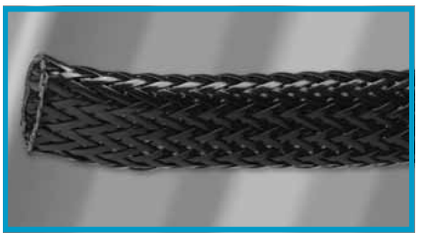
# FIT® Wire Management

## Maximum Performance Expandable Sleeving
## GRP-180



Superior abrasion resistance, a wide operating temperature range, easy installation for industrial, solar, and high-abrasion applications

- Superior abrasion resistance
- Easy to install
- Resists fuels, solvents, chemicals, salt water, and UV
- Smooth inner wall to prevent internal abrasion damage

### Operating Temperature

- -60°C to +150°C
- 265°C melt temperature

### Color

- Black

### Materials

- Flat 20-mil nylon filaments
- Cuts with hot knife

### Physical Properties

- Tensile strength: 19 psi (0.13 N/mm²)
- Specific gravity: 1.12 max

### Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 2.50% max
- UV resistant
- Lead free

### Availability

See table
Reels may contain multiple lengths

| Part No. | Nominal Size | | Expansion Range | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **GRP-180-1/2** | 1/2 | 12.70 | 0.375 - 0.625 | 9.53 - 15.88 | 24 | 1 | 24 | 50, 250 | 15.2, 76 |
| **GRP-180-3/4** | 3/4 | 19.05 | 0.625 - 1.000 | 15.88 - 25.40 | 36 | 1 | 36 | 50, 250 | 15.2, 76 |
| **GRP-180-1IN** | 1 | 25.40 | 0.875 - 1.250 | 22.22 - 31.75 | 44 | 1 | 44 | 50, 250 | 15.2, 76 |
| **GRP-180-1-1/4** | 1-1/4 | 31.75 | 1.000 - 1.500 | 25.40 - 38.10 | 48 | 1 | 48 | 25, 100 | 7.6, 30.5 |
| **GRP-180-1-3/4** | 1-3/4 | 44.45 | 1.500 - 2.000 | 38.10 - 50.80 | 80 | 1 | 80 | 25, 100 | 7.6, 30.5 |
| **GRP-180-2IN** | 2 | 50.80 | 1.750 - 2.750 | 44.45 - 69.85 | 96 | 1 | 96 | 25, 100 | 7.6, 30.5 |

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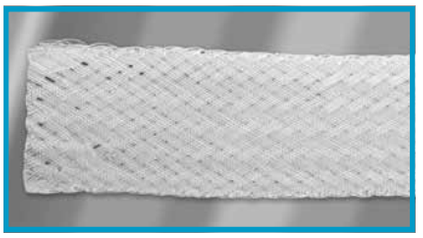
# FIT® Wire Management

## Extreme Performance Sleeving
## GRP-200



The high-temperature choice for aerospace, military, and high-tech applications where thermal stability and low outgassing are critical

### FAR 25

- Cut and abrasion resistant
- Flame resistant
- Resists virtually all chemicals and UV
- Thermally stable
- Low outgassing
- Suitable for plenum use

### Operating Temperature

- -70°C to +280°C
- 310°C melt temperature

### Color

- Natural

### Materials

- 16-mil PTFE filaments
- Cuts with hot knife or hot wire

### Physical Properties

- Specific gravity: 2.15 max

### Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 0.01% max
- Vacuum outgassing: 95.0% max
- Lead free

### Availability

See table
Spools may contain multiple lengths

| Part No. | Nominal Size | | Expansion Range | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **GRP-200-1/8** | 1/8 | 3.18 | 0.094 - 0.250 | 2.38 - 6.35 | 24 | 1 | 25 | 50, 250 | 15.2, 76 |
| **GRP-200-1/4** | 1/4 | 6.35 | 0.188 - 0.375 | 4.76 - 9.53 | 32 | 1 | 32 | 50, 250 | 15.2, 76 |
| **GRP-200-3/8** | 3/8 | 9.53 | 0.250 - 0.750 | 6.35 - 19.06 | 40 | 3 | 120 | 50, 250 | 15.2, 76 |
| **GRP-200-1/2** | 1/2 | 12.70 | 0.375 - 0.875 | 9.53 - 22.23 | 48 | 3 | 144 | 50, 250 | 15.2, 76 |
| **GRP-200-3/4** | 3/4 | 19.05 | 0.625 - 1.250 | 15.88 - 31.75 | 64 | 3 | 192 | 50, 250 | 15.2, 76 |
| **GRP-200-1-1/4** | 1-1/4 | 31.75 | 1.125 - 1.500 | 28.58 - 38.10 | 72 | 3 | 216 | 25, 100 | 7.6, 30.5 |
| **GRP-200-1-3/4** | 1-3/4 | 44.45 | 1.375 - 1.750 | 34.93 - 44.45 | 80 | 4 | 240 | 25, 100 | 7.6, 30.5 |
| **GRP-200-2IN** | 2 | 50.80 | 1.688 - 2.125 | 42.88 - 53.98 | 96 | 3 | 288 | 25, 100 | 7.6, 30.5 |

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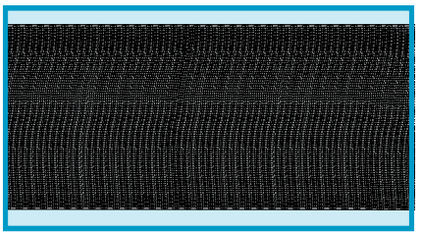
# FIT® Wire Management

## Expandable Braided Sleeving
## XS-100HD



**UL 224**
**UL UZKX2**
**CSA 5836 01**

- Extremely flexible
- Light weight
- Easy to install

### Operating Temperature

- -70°C to +125°C
- 250°C melt temperature

### Color

- Black

### Material

- Heavy-duty braided PET

### Physical Properties

- Tensile strength: 90,000 psi (620 N/mm²)
- Elongation: 25% min.
- Specific gravity: 1.31 max.

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Halogen free
- Lead free

### Availability

See table

Spools may contain multiple lengths

| Part No. | Inside Diameter, Min. | | Expanded Inside Diameter, Max. | | Wall Thickness | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **XHD3/8** | 0.188 | 4.78 | 0.750 | 19.05 | 0.042 | 1.07 | 24 | 3 | 72 | 500 | 152 |
| **XHD5/8** | 0.313 | 7.95 | 1.000 | 25.40 | 0.042 | 1.07 | 32 | 3 | 96 | 500 | 152 |
| **XHD1IN** | 0.500 | 12.70 | 1.500 | 38.10 | 0.042 | 1.07 | 48 | 3 | 144 | 250 | 76 |
| **XHD1-1/2** | 1.000 | 25.40 | 2.000 | 50.80 | 0.042 | 1.07 | 72 | 3 | 216 | 200 | 61 |
| **XHD2IN** | 1.500 | 38.10 | 3.000 | 76.20 | 0.042 | 1.07 | 93 | 3 | 288 | 100 | 30.5 |

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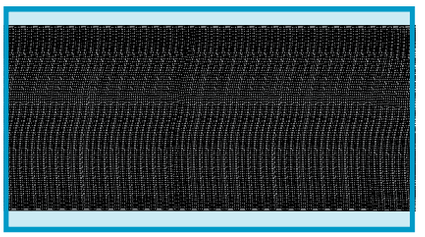
# FIT® Wire Management

## Braided Sleeving
## XS-200N



**MIL-S-47053**
**CID A-A-59301**

- Extremely durable
- Abrasion resistant
- Tight weave with excellent flexibility

### Operating Temperature

- -45°C to +120°C
- 250°C melt temperature

### Color

- Black

### Material

- Braided nylon

### Physical Properties

- Tensile strength: 80,000 psi (551 N/mm$^2$)
- Specific gravity: 1.14

### Chemical Properties

- Corrosive effect: none
- Fungus resistance: no growth
- Water absorption: 0.04%, max.
- Halogen free
- Lead free

### Electrical Properties

- Dielectric strength: 4 V/mil (1.57 kV/cm)

### Availability

See table

Spools may contain multiple lengths

| Part No. | Inside Diameter, Min. | | Wall Thickness | | Construction | | | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Carriers | Yarns | Total | Ft | m |
| **XS-200N-1/8** | 0.125 | 3.18 | 0.020 | 0.51 | 28 | 3 | 84 | 100, 1000 | 30.5, 305 |
| **XS-200N-1/4** | 0.250 | 6.35 | 0.032 | 0.81 | 48 | 4 | 192 | 100, 500 | 30.5, 152 |
| **XS-200N-3/8** | 0.375 | 9.53 | 0.032 | 0.81 | 52 | 5 | 260 | 100, 500 | 30.5, 152 |
| **XS-200N-1/2** | 0.500 | 12.70 | 0.035 | 0.89 | 72 | 6 | 432 | 100 | 30.5 |
| **XS-200N-3/4** | 0.750 | 19.05 | 0.035 | 0.89 | 72 | 9 | 648 | 100, 250 | 30.5, 76 |
| **XS-200N-1IN** | 1.000 | 25.40 | 0.045 | 1.14 | 72 | 16 | 1152 | 100 | 30.5 |

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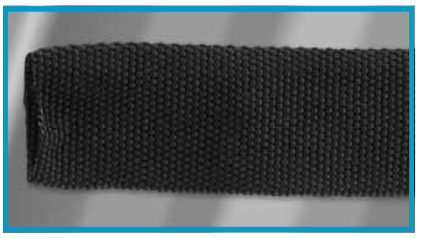
# FIT® Wire Management

## Abrasion-Resistant Nylon Sleeving
## XS300



Professional-grade protection with smooth inner wall to prevent internal abrasion damage

- Excellent abrasion resistance
- Tightly woven, nonexpandable
- Cuts cleaning with scissors
- Deflects high-pressure hose ruptures
- Resists fuels, chemicals, UV, rot, and vermin
- ISO 6945 certified
- MSHA approved “Accepted flame-resistant solid products taken into mines”

### Operating Temperature

- -45°C to +120°C
- 210°C melt temperature

### Color

- Black

### Materials

- 45-mil-thick nylon
- Cuts with scissors

### Physical Properties

- Specific gravity: 1.14

### Chemical Properties

- Corrosive effects: noncorrosive
- Fungus resistance: no growth
- Water absorption: 2.70% max
- Halogen free
- Lead free

### Availability

25 ft (7.6 m)
100 ft (304 m) for 0.71 through 1.59 sizes only

| Part No. | Size | | Wall Thickness (Min) | |
|---|---|---|---|---|
| | Inch | mm | Inch | Mm |
| **XS300071** | 0.71 | 18.03 | 0.045 | 1.14 |
| **XS300083** | 0.83 | 21.08 | 0.045 | 1.14 |
| **XS300092** | 0.92 | 23.37 | 0.045 | 1.14 |
| **XS300100** | 1.00 | 25.40 | 0.045 | 1.14 |
| **XS300113** | 1.13 | 28.70 | 0.045 | 1.14 |
| **XS300125** | 1.25 | 31.75 | 0.045 | 1.14 |
| **XS300134** | 1.34 | 34.04 | 0.045 | 1.14 |
| **XS300159** | 1.59 | 40.39 | 0.045 | 1.14 |
| **XS300175** | 1.75 | 44.45 | 0.045 | 1.14 |
| **XS300207** | 2.07 | 52.58 | 0.045 | 1.14 |
| **XS300238** | 2.38 | 60.45 | 0.045 | 1.14 |
| **XS300254** | 2.54 | 64.52 | 0.045 | 1.14 |
| **XS300286** | 2.86 | 72.64 | 0.045 | 1.14 |
| **XS300334** | 3.34 | 84.84 | 0.045 | 1.14 |
| **XS300366** | 3.66 | 92.96 | 0.045 | 1.14 |

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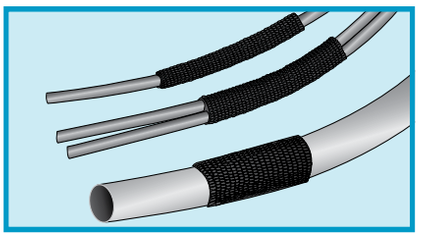
# FIT® Wire Management

## Expandable Braided Sleeving
## ZIP-GRP



**UL UZKYZ**
**UL 94V-0**
**CSA 5836 01**

- Unlimited breakouts
- Abrasion and cut-through resistance
- Oil and solvent resistance

### Operating Temperature

- -70°C to +125°C
- 230°C melt temperature

### Color

- Black

### Material

- Braided PET with hook and loop closure
- Cuts with hot knife

### Physical Properties

- Tensile strength: 85,000 psi (586 N/mm²)
- Specific gravity: 1.38

### Chemical Properties

- Corrosive effect: None
- Fungus resistance: no growth
- Water absorption: 0.15% max.
- Halogen free
- Lead free
- Chemically inert
- UV resistant

### Availability

25 ft (7.6 m)
50 ft (15.2 m)

Spools may contain multiple lengths

| Part No. | Inside Diameter, Min. | | Expanded Inside Diameter, Max. | | Wall Thickness | | Construction | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | Inch | mm | Carriers | Yarns | Total |
| **ZIP-GRP-7/8** | 0.500 | 12.70 | 2.375 | 60.33 | 0.025 | 0.64 | 88 | 4 | 220 |
| **ZIP-GRP-1-1/2** | 1.500 | 38.10 | 3.500 | 88.90 | 0.025 | 0.64 | 105 | 4 | 420 |
| **ZIP-GRP-2** | 2.000 | 50.80 | 4.500 | 114.30 | 0.025 | 0.64 | 137 | 4 | 548 |

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# FIT® Wire Management

## Lacing Tape

### A-A-52080 Type 1

- High tensile strength
- Good chemical resistance
- Excellent abrasion resistance
- Excellent knot retention

See table for specifications.

### Finishes

**A. Natural, No finish**

**B. Wax:** A microcrystalline wax with a melting point above 54°C compounded with a fungicide that does not contain either copper or mercuric materials. Excellent knot retention, yet the finish does not have too great a "waxy" feel to the user. Microcrystalline wax is soft, pliable, and easy to tie.

**C. Synthetic Rubber or Elastomer:** A special continuous coating of fungistatic synthetic rubber containing no corrosive compounding ingredients. Knots tied with this finish will not slip. This finish will not flake or dust.

**D: Glass/TFE:**
The glass/TFE combination has excellent tensile strength and abrasion resistance. Also resists fungus, acids and flames.

**E. Synthetic Resin or Vinyl:**

A thermoplastic synthetic resin with a melting point above 177°C for use where a "wax free" type is specified. It is a non-dusting or flaking, dry finish with good knot tying qualities.

### A-A-52080 (MIL-T-43435B Type I)

- Flat braid made from high-tenacity continuous nylon yarn

### Operating temperature:

- -55° C to +121°C

### Elongation:

- 40% max

### Finish weight (impregnated % of material by weight)

- Finish A (natural)
- Finish B (wax): 15% – 32%
- Finish C (synthetic rubber/ elastomer): 7% – 17%
- Finish E (synthetic resin/vinyl): 15% – 30%

| Part No. | Finish | Color | Width, Nom | | Thickness, Nom. | | Break Strength, Min. | | Availability* | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inch | mm | Inch | mm | lb | kg | Yd | m |
| **801530W** | A | Natural | 0.050 | 1.27 | 0.010 | 0.25 | 15 | 6.8 | 500 | 457 |
| **801536B** | B | Black | 0.050 | 1.27 | 0.010 | 0.25 | 15 | 6.8 | 500 | 457 |
| **801536W** | B | Natural | 0.050 | 1.27 | 0.010 | 0.25 | 15 | 6.8 | 500 | 457 |
| **802534B** | B | Black | 0.060 | 1.52 | 0.012 | 0.30 | 25 | 11.3 | 500 | 457 |
| **802534W** | B | Natural | 0.060 | 1.52 | 0.012 | 0.30 | 25 | 11.3 | 500 | 457 |
| **LC-134** | B | Black, White | 0.060 | 1.52 | 0.012 | 0.30 | 25 | 11.3 | 500 | 457 |
| **805032B** | E | Black | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805032W** | E | Natural | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805036B** | B | Black | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805036W** | B | Natural | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805040B** | C | Black | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805040W** | C | Natural | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **LC-143** | E | Black, White | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **808036B** | B | Black | 0.110 | 2.79 | 0.015 | 0.38 | 80 | 36.3 | 250 | 228 |
| **808036W** | B | White | 0.110 | 2.79 | 0.015 | 0.38 | 80 | 36.3 | 250 | 228 |

*Bobbins/tubes may contain multiple lengths.

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# FIT® Wire Management

## Lacing Tape

### A-A-52081 (formerly MIL-T-43435B Type II)

- Flat braid made from high-tenacity continuous polyester yarn

### Operating temperature:

- -73°C to +177°C

### Elongation:

- 40% max

### Finish weight (impregnated % of material by weight)

- Finish A (natural)
- Finish B (wax): 15% – 32%
- Finish C (synthetic rubber/ elastomer): 7% – 17%
- Finish E (synthetic resin/vinyl): 15% – 30%

| Part No. | Finish | Color | Width, Nom. | | Thickness, Nom. | | Break Strength, Min. | | Availability* | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inch | mm | Inch | mm | lb | kg | Yd | m |
| **801566B** | C | Black | 0.050 | 1.27 | 0.010 | 0.25 | 15 | 6.8 | 500 | 457 |
| **802566B** | C | Black | 0.060 | 1.52 | 0.012 | 0.30 | 25 | 11.3 | 500 | 457 |
| **C164** | B | Black, White | 0.062 | 1.57 | 0.010 | 0.25 | 25 | 11.3 | 500 | 457 |
| **805058B** | E | Black | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805058W** | E | Natural | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805060B** | A | Black | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805062B** | B | Black | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805062W** | B | Natural | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **805066W** | C | Natural | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **C162** | B | Black, White | 0.085 | 2.16 | 0.014 | 0.36 | 50 | 22.7 | 500 | 457 |
| **808060W** | A | Natural | 0.110 | 2.79 | 0.015 | 0.38 | 80 | 36.3 | 500 | 457 |
| **808058B** | E | Black | 0.110 | 2.79 | 0.015 | 0.38 | 80 | 36.3 | 250 | 228 |
| **C160** | B | Black, White | 0.200 | 5.08 | 0.016 | 0.41 | 135 | 61.2 | 250 | 228 |

*Bobbins/tubes may contain multiple lengths.

### A-A-52083 (formerly MIL-T-43435B Type IV)

- Flat braid made from continuous filament glass yarn coated with PTFE before braiding

### Operating temperature:

- Glass maintain strength and stability to 427°C

### Elongation:

- 5% max

### Finish weight (impregnated % of material by weight)

- Finish D (glass/TFE): 10% – 20%

| Part No. | Finish | Color | Width, Nom. | | Thickness, Nom. | | Break Strength, Min. | | Availability* | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inch | mm | Inch | mm | lb | kg | Yd | m |
| **807510W** | D | Natural | 0.085 | 2.16 | 0.016 | 0.41 | 75 | 34.0 | 500 | 457 |
| **810010W** | D | Natural | 0.110 | 2.79 | 0.016 | 0.41 | 100 | 45.3 | 250 | 228 |

*Bobbins/tubes may contain multiple lengths.

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# FIT® Wire Management

## Lacing Tape

### A-A-52084 (formerly MIL-T-43435B Type V)

- Flat braid made from continuous filament aramid yarn

### Operating temperature:

- -55°C to +260°C

### Elongation:

- 40% max

### Finish weight (impregnated % of material by weight)

- Finish C (synthetic rubber/ elastomer): 7% – 17%

| Part No. | Finish | Color | Width, Nom. | | Thickness, Nom. | | Break Strength, Min. | | Availability* | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inch | mm | Inch | mm | lb | kg | Yd | m |
| **803554** | C | Natural | 0.075 | 1.91 | 0.012 | 0.30 | 35 | 15.9 | 500 | 457 |

*Bobbins/tubes may contain multiple lengths.

### MIL-DTL-713 Type P

- Twisted nylon cord made from high-tenacity continuous filament yarn

### Operating temperature:

- -55° C to +121°C

### Elongation:

- 20% min.

### Finish weight (impregnated % of material by weight)

- Finish B (wax): 20% – 32%

| Part No. | Finish | Color | Diameter, Nom. | | Break Strength, Min. | | Availability* | |
|---|---|---|---|---|---|---|---|---|
| | | | Inch | mm | lb | kg | lb | kg |
| **803215B** | B | Black | 0.023 | 0.58 | 32 | 14.5 | 1 | 0.45 |
| **803215W** | B | Natural | 0.023 | 0.58 | 32 | 14.5 | 1 | 0.45 |
| **804812W** | A | Natural | 0.025 | 0.64 | 48 | 21.8 | 1 | 0.45 |
| **804814B** | B | Black | 0.025 | 0.64 | 48 | 21.8 | 1 | 0.45 |
| **804814W** | B | Natural | 0.025 | 0.64 | 48 | 21.8 | 1 | 0.45 |
| **807013B** | B | Black | 0.040 | 1.02 | 70 | 31.7 | 1 | 0.45 |
| **807013W** | B | Natural | 0.040 | 1.02 | 70 | 31.7 | 1 | 0.45 |

*Weight per spool; bobbins/tubes may contain multiple lengths.

### Telecommunications-Grade Polyester Yarn

- Round, twisted polyester cord made from high-tenacity industrial polyester fiber

### Melt temperature (approx.):

- 121°C

### Elongation:

- 17% – 27%

### Finish weight (impregnated % of material by weight)

- 9 ply: 7% – 17%
- 12 ply: 35%

| Part No. | Finish | Color | Diameter, Nom. | | Break Strength, Min. | | Plies | Availability* | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Inch | mm | lb | kg | | lb | kg |
| **812030W** | Wax | Natural | 0.030 | 0.76 | 32 | 14.5 | 9 | 0.5 | 0.22 |
| **815040W** | Wax | Natural | 0.030 | 0.76 | 32 | 14.5 | 12 | 0.5 | 0.22 |

*Weight per tube; bobbins/tubes may contain multiple lengths.

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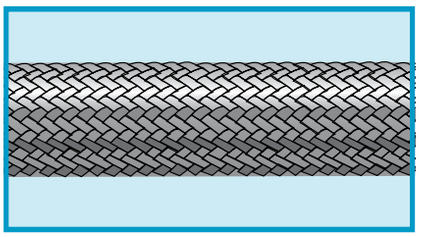
# FIT® Wire Management

## Tinned Copper Braid
## Flat, Oval



**AA-59569A (as indicated)**

### Color

- Silver

### Material

- Tinned copper braid

### Availability

See table

Spools may contain multiple lengths

| Part No. | Flat Width, Nom. | | Thickness, Nom. | | Braid Construction | | | AWG Equivalent, Approx. | CMA, Nom. | Current-Carrying Capacity | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | Inch | mm | AWG of Individ. Ends | Carriers | No. of Individ. Ends | | | Amps | Ft | m |
| **1221*** | 0.025 | 0.64 | 0.015 | 0.38 | 36 | 8 | 8 | 27 | 200 | 4 | 100, 500, 1000 | 30.5, 152, 305 |
| **1222*** | 0.032 | 0.81 | 0.020 | 0.50 | 36 | 16 | 16 | 24 | 400 | 6 | 100, 500, 1000 | 30.5, 152, 305 |
| **1223** | 0.047 | 1.19 | 0.020 | 0.50 | 36 | 24 | 24 | 22 | 600 | 7 | 100, 500, 1000 | 30.5, 152, 305 |
| **1224*** | 0.094 | 2.39 | 0.020 | 0.50 | 36 | 16 | 48 | 19 | 1200 | 11 | 100, 500, 1000 | 30.5, 152, 305 |
| **1229** | 0.125 | 3.18 | 0.020 | 0.50 | 36 | 24 | 72 | 18 | 1800 | 16 | 100, 500, 1000 | 30.5, 152, 305 |
| **1230** | 0.187 | 4.75 | 0.020 | 0.50 | 36 | 24 | 120 | 15 | 3000 | 25 | 100, 500, 1000 | 30.5, 152, 305 |
| **1231** | 0.250 | 6.35 | 0.030 | 0.76 | 36 | 24 | 168 | 14 | 4200 | 32 | 100, 500, 1000 | 30.5, 152, 305 |
| **1232*** | 0.385 | 9.78 | 0.030 | 0.76 | 36 | 48 | 288 | 12 | 7200 | 46 | 100, 500, 1000 | 30.5, 152, 305 |
| **1233/2*** | 0.500 | 12.70 | 0.030 | 0.76 | 36 | 48 | 384 | 10 | 9600 | 53 | 100, 500, 1000 | 30.5, 152, 305 |
| **1233** | 0.625 | 15.88 | 0.030 | 0.76 | 36 | 48 | 384 | 10 | 9600 | 53 | 100, 500, 1000 | 30.5, 152, 305 |
| **1234** | 0.750 | 19.05 | 0.040 | 1.02 | 36 | 48 | 864 | 7 | 20,800 | 85 | 100, 500, 1000 | 30.5, 152, 305 |
| **1235*** | 1.000 | 25.40 | 0.045 | 1.14 | 36 | 48 | 864 | 7 | 20,800 | 85 | 100, 500, 1000 | 30.5, 152, 305 |
| **1239** | 1.375 | 34.93 | 0.050 | 1.27 | 30 | 48 | 336 | 5 | 33,700 | 100 | 100, 500, 1000 | 30.5, 152, 305 |
| **1240** | 1.500 | 38.10 | 0.060 | 1.52 | 30 | 48 | 528 | 3 | 53,064 | 150 | 100 | 30.5 |
| **1241*** | 1.750 | 44.45 | 0.080 | 2.03 | 30 | 48 | 1248 | 2/0 | 125,424 | 280 | 100 | 30.5 |
| **1242*** | 2.000 | 50.80 | 0.120 | 3.05 | 30 | 48 | 1436 | 3/0 | 154,368 | 310 | 100 | 30.5 |
| **1242/4*** | 3.000 | 76.20 | 0.200 | 5.08 | 30 | 48 | 2256 | 4/0 | 225,000 | 390 | 100 | 30.5 |

*Not A-A-59569A.

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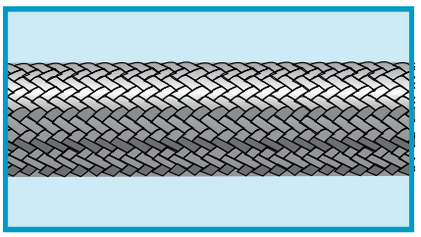
# FIT® Wire Wire Management

## Tinned Copper Braid
## Flat, Oval



**A-A-59551 (as indicated)**

### Color

- Silver

### Material

- Tinned copper braid

### Availability

See table

Spools may contain multiple lengths

| Part No. | Inside Diameter, Nom. | | Braid Construction | | | AWG Equivalent, Approx. | CMA, Nom. | Current-Carrying Capacity | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | AWG of Individ. Ends | Carriers | No. of Individ. Ends | | | Amps | Ft | m |
| **2132** | 1/16 | 1.59 | 34 | 16 | 32 | 19 | 1192 | 11 | 100, 500, 1000 | 30.5, 152, 305 |
| **2138** | 11/64 | 4.37 | 34 | 24 | 120 | 14 | 4770 | 32 | 100, 500, 1000 | 30.5, 152, 305 |
| **2140*** | 3/16 | 4.76 | 34 | 24 | 144 | 13 | 5724 | 38 | 100, 500 | 30.5, 152 |
| **2142*** | 1/4 | 6.35 | 34 | 24 | 168 | 12 | 6678 | 41 | 100, 500 | 30.5, 152 |
| **2144*** | 3/8 | 9.53 | 34 | 24 | 192 | 11 | 7632 | 46 | 100, 500, | 30.5, 152 |
| **2146** | 1/2 | 12.70 | 34 | 48 | 336 | 9 | 13,356 | 62 | 100 | 30.5 |
| **2148*** | 5/8 | 15.88 | 34 | 48 | 384 | 8 | 14,264 | 64 | 100 | 30.5 |
| **2150*** | 11/16 | 17.46 | 34 | 48 | 480 | 7 | 19,080 | 81 | 100 | 30.5 |
| **2152** | 25/32 | 19.84 | 34 | 48 | 528 | 7 | 20,988 | 85 | 100 | 30.5 |

*Not A-A-59551.

## Bare Copper Braid
## Flat

### Material

- Bare copper braid

### Availability

See table

Spools may contain multiple lengths

| Part No. | Dimensions, Nom. | | Braid Construction | | | CMA, Nom. | Current-Carrying Capacity | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | AWG of Individ. Ends | Carriers | No. of Individ. Ends | | Amps | Ft | m |
| **95106** | 0.062 x 0.016 | 1.57 x 0.41 | 20 | 16 | 96 | 949 | 10.2 | 100, 500, 1000 | 30.5, 152, 305 |
| **95079** | 0.250 x 0.030 | 6.35 x 0.76 | 14 | 27 | 168 | 4200 | 27.9 | 100, 500, 1000 | 30.5, 152, 305 |

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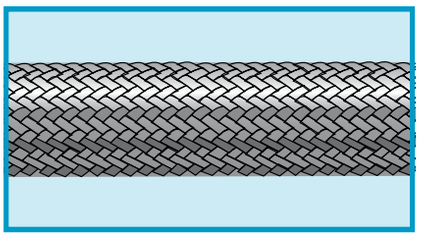
# FIT® Wire Wire Management

## Tinned Copper Braid
## Tubular



**A-A-59569**

### Color

- Silver

### Material

- Tinned copper braid

### Availability

See tables

Spools may contain multiple lengths

### Tinned Copper

| Part No. | Inside Diameter, Nom. | | Braid Construction | | | AWG Equivalent, Approx. | CMA, Nom. | Current-Carrying Capacity | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | AWG of Indiv. Ends | Carriers | No. of Indiv. Ends | | | Amps | Ft | m |
| **2160** | 0.031 | 0.79 | 36 | 24 | 24 | 22 | 600 | 7 | 100, 250 | 30.6, 76 |
| **2162** | 0.062 | 1.57 | 36 | 24 | 48 | 19 | 1200 | 11 | 100, 250 | 30.6, 76 |
| **2163** | 0.078 | 1.98 | 36 | 24 | 72 | 18 | 1800 | 16 | 100, 250 | 30.6, 76 |
| **2164** | 0.109 | 2.77 | 36 | 24 | 96 | 16 | 2400 | 19 | 100, 250 | 30.6, 76 |
| **2166** | 0.125 | 3.18 | 36 | 24 | 120 | 15 | 3000 | 25 | 100, 250 | 30.6, 76 |
| **2167** | 0.156 | 3.96 | 36 | 24 | 240 | 12 | 6000 | 40 | 100, 250 | 30.6, 76 |
| **2168** | 0.171 | 4.34 | 36 | 24 | 168 | 14 | 4200 | 32 | 100, 250 | 30.6, 76 |
| **2170** | 0.203 | 5.16 | 34 | 24 | 192 | 11 | 7630 | 46 | 100 | 30.5 |
| **2171** | 0.250 | 6.35 | 36 | 24 | 384 | 10 | 9600 | 53 | 100 | 30.5 |
| **2171/1** | 0.281 | 7.14 | 30 | 24 | 120 | 9 | 12,060 | 60 | 100 | 30.5 |
| **2172** | 0.375 | 9.53 | 36 | 48 | 384 | 10 | 9600 | 53 | 100 | 30.5 |
| **2173** | 0.437 | 11.10 | 30 | 24 | 240 | 6 | 24,120 | 90 | 100 | 30.5 |
| **2174** | 0.500 | 12.70 | 36 | 48 | 528 | 9 | 13,200 | 62 | 100 | 30.5 |
| **2175** | 0.462 | 11.73 | 30 | 48 | 480 | 3 | 48,240 | 145 | 100 | 30.5 |
| **2175/1** | 0.656 | 16.66 | 30 | 48 | 768 | 1 | 77,180 | 190 | 100 | 30.5 |
| **2176** | 0.781 | 19.84 | 36 | 48 | 864 | 7 | 21,600 | 88 | 100 | 30.5 |

### Extra-Large Tinned Copper

| Part No. | Inside Diameter, Nom. | | Braid Construction | | | AWG Equivalent, Approx. | CMA, Nom. | Current-Carrying Capacity | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | AWG of Indiv. Ends | Carriers | No. of Indiv. Ends | | | Amps | Ft | m |
| **2177** | 0.875 | 22.23 | 30 | 48 | 336 | 5 | 33,700 | 100 | 100 | 30.5 |
| **2178** | 1.000 | 25.40 | 30 | 48 | 384 | 4 | 38,600 | 120 | 100 | 30.5 |
| **2179** | 1.125 | 28.58 | 30 | 48 | 432 | 4 | 43,330 | 130 | 100 | 30.5 |
| **2180*** | 1.250 | 31.75 | 30 | 48 | 480 | 3 | 48,150 | 145 | 100 | 30.5 |
| **2181** | 1.375 | 34.93 | 30 | 48 | 528 | 3 | 53,000 | 150 | 100 | 30.5 |
| **2182** | 1.500 | 38.10 | 30 | 48 | 576 | 2 | 57,775 | 165 | 100 | 30.5 |

*Not A-A-59569.

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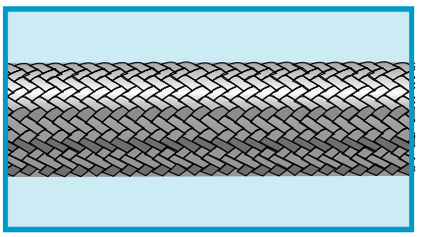
# FIT® Wire Wire Management

## Silver-Plated Copper Braid
## Tubular



**A-A-59569**

### Color

- Silver

### Material

- Silver-plated copper braid

### Availability

See table

Spools may contain multiple lengths

**Silver-Plated**

| Part No. | Inside Diameter, Nom. | | Braid Construction | | | AWG Equivalent, Approx. | CMA, Nom. | Current-Carrying Capacity | Standard Put-Ups | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Inch | mm | AWG of Indiv. Ends | Carriers | No. of Indiv. Ends | | | Amps | Ft | m |
| **2191** | 1/16 | 1.59 | 36 | 24 | 48 | 19 | 1200 | 11 | 100 | 30.5 |
| **2193** | 7/64 | 2.78 | 36 | 24 | 96 | 16 | 2400 | 19 | 100 | 30.5 |
| **2194** | 1/8 | 3.18 | 36 | 24 | 120 | 15 | 3000 | 25 | 100 | 30.5 |
| **2195** | 5/32 | 3.97 | 36 | 24 | 240 | 12 | 6000 | 40 | 100 | 30.5 |
| **2196** | 11/64 | 4.37 | 36 | 24 | 168 | 14 | 4200 | 32 | 100 | 30.5 |
| **2197** | 13/64 | 5.16 | 34 | 24 | 192 | 11 | 7640 | 46 | 100 | 30.5 |
| **2198** | 1/4 | 6.35 | 36 | 24 | 384 | 10 | 9600 | 53 | 100 | 30.5 |

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# Technical Information

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# AWG/Metric Conductor Table

| | | Approx OD | | Area | | Weight | | DC Resistance (Bare)* | | DC Resistance (Tinned)* | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AWG | Stranding | Inch | mm | CMA | mm² | Lb/ 1000 ft | kg/km | Ohms/ 1000 ft | Ohms/ km | Ohms/ 1000 ft | Ohms/ km |
| 38 | Solid | 0.0040 | 0.102 | 16.0 | 0.008 | 0.048 | 0.071 | 648 | 2126 | 696 | 2283 |
| 38 | 7/46 | 0.0047 | 0.119 | 17.2 | 0.009 | 0.053 | 0.079 | 614 | 2014 | 659 | 2162 |
| 36 | Solid | 0.0050 | 0.127 | 25.0 | 0.013 | 0.076 | 0.113 | 415 | 1362 | 445 | 1460 |
| 36 | 7/44 | 0.0060 | 0.152 | 28.0 | 0.014 | 0.086 | 0.128 | 378 | 1240 | 406 | 1332 |
| 34 | Solid | 0.0063 | 0.160 | 39.7 | 0.020 | 0.120 | 0.179 | 261 | 856 | 280 | 919 |
| 34 | 7/42 | 0.0075 | 0.191 | 43.8 | 0.022 | 0.135 | 0.201 | 242 | 794 | 260 | 853 |
| 32 | Solid | 0.0080 | 0.203 | 64.0 | 0.032 | 0.194 | 0.289 | 162 | 531 | 174 | 571 |
| 32 | 7/40 | 0.0093 | 0.236 | 67.3 | 0.034 | 0.208 | 0.310 | 157 | 515 | 169 | 554 |
| 32 | 19/44 | 0.0100 | 0.254 | 76.0 | 0.039 | 0.235 | 0.350 | 139 | 456 | 149 | 489 |
| 30 | Solid | 0.0100 | 0.254 | 100 | 0.051 | 0.303 | 0.451 | 104 | 341 | 111 | 364 |
| 30 | 7/38 | 0.0120 | 0.305 | 112 | 0.057 | 0.346 | 0.515 | 94.5 | 310 | 101 | 331 |
| 30 | 19/42 | 0.0125 | 0.318 | 119 | 0.060 | 0.367 | 0.546 | 89.1 | 292 | 95.6 | 314 |
| 28 | Solid | 0.0126 | 0.320 | 159 | 0.081 | 0.481 | 0.716 | 65.2 | 214 | 69.3 | 227 |
| 28 | 7/36 | 0.0150 | 0.381 | 175 | 0.089 | 0.540 | 0.804 | 60.4 | 198 | 64.9 | 213 |
| 28 | 19/40 | 0.0155 | 0.394 | 183 | 0.093 | 0.564 | 0.839 | 57.9 | 190 | 62.2 | 204 |
| 27 | 7/35 | 0.017 | 0.432 | 220 | 0.111 | 0.679 | 1.01 | 48.1 | 158 | 51.7 | 170 |
| 26 | Solid | 0.0159 | 0.404 | 253 | 0.128 | 0.766 | 1.14 | 41.0 | 135 | 43.5 | 143 |
| 26 | 7/34 | 0.019 | 0.483 | 278 | 0.141 | 0.858 | 1.28 | 38.1 | 125 | 40.9 | 134 |
| 26 | 10/36 | 0.019 | 0.483 | 250 | 0.127 | 0.772 | 1.15 | 42.3 | 139 | 45.4 | 149 |
| 26 | 19/38 | 0.020 | 0.508 | 304 | 0.154 | 0.939 | 1.40 | 34.8 | 114 | 37.4 | 123 |
| 25 | 7/.0067 | 0.020 | 0.508 | 314 | 0.159 | 0.970 | 1.44 | 33.7 | 111 | 36.1 | 118 |
| 25 | 7/33 | 0.021 | 0.533 | 353 | 0.179 | 1.09 | 1.62 | 30.0 | 98.4 | 32.2 | 106 |
| 25 | 40/40 | 0.023 | 0.584 | 384 | 0.195 | 1.19 | 1.77 | 27.5 | 90.2 | 29.5 | 96.8 |
| 24 | Solid | 0.0201 | 0.511 | 404 | 0.205 | 1.22 | 1.82 | 25.7 | 84.3 | 26.7 | 87.6 |
| 24 | 7/32 | 0.024 | 0.610 | 448 | 0.227 | 1.38 | 2.05 | 23.6 | 77.4 | 25.3 | 83.0 |
| 24 | 10/34 | 0.023 | 0.584 | 397 | 0.201 | 1.23 | 1.83 | 26.6 | 87.3 | 28.6 | 93.8 |
| 24 | 19/36 | 0.025 | 0.635 | 475 | 0.241 | 1.47 | 2.19 | 22.3 | 73.2 | 23.9 | 78.4 |
| 22 | Solid | 0.0253 | 0.643 | 640 | 0.324 | 1.94 | 2.89 | 16.2 | 53.1 | 16.9 | 55.4 |
| 22 | 7/.0096 | 0.029 | 0.737 | 645 | 0.327 | 1.99 | 2.96 | 16.4 | 53.8 | 17.6 | 57.7 |
| 22 | 7/30 | 0.030 | 0.762 | 700 | 0.355 | 2.16 | 3.21 | 15.1 | 49.5 | 16.2 | 53.1 |
| 22 | 16/34 | 0.030 | 0.762 | 635 | 0.322 | 1.96 | 2.92 | 16.7 | 54.8 | 17.9 | 58.7 |
| 22 | 19/34 | 0.0315 | 0.800 | 754 | 0.382 | 2.33 | 3.47 | 14.0 | 45.9 | 15.1 | 49.5 |
| 20 | Solid | 0.032 | 0.813 | 1024 | 0.519 | 3.10 | 4.61 | 10.1 | 33.1 | 10.5 | 34.4 |
| 20 | 7/.0121 | 0.036 | 0.914 | 1022 | 0.518 | 3.16 | 4.70 | 10.4 | 34.1 | 11.0 | 36.1 |
| 20 | 7/28 | 0.038 | 0.965 | 1113 | 0.564 | 3.44 | 5.12 | 9.5 | 31.2 | 10.1 | 33.1 |
| 20 | 10/30 | 0.037 | 0.940 | 1000 | 0.507 | 3.09 | 4.60 | 10.6 | 34.8 | 11.4 | 37.4 |
| 20 | 19/32 | 0.040 | 1.016 | 1216 | 0.616 | 3.75 | 5.58 | 8.7 | 28.5 | 9.3 | 30.6 |
| 20 | 26/34 | 0.038 | 0.965 | 1032 | 0.523 | 3.19 | 4.75 | 10.2 | 33.5 | 11.0 | 36.1 |
| 20 | 41/36 | 0.037 | 0.940 | 1025 | 0.519 | 3.16 | 4.70 | 10.3 | 33.8 | 11.1 | 36.4 |
| 20 | 63(7x9)/38 | 0.040 | 1.016 | 1008 | 0.511 | 3.17 | 4.72 | 10.7 | 35.1 | 11.5 | 37.7 |

*Nominal resistance at 20°C.



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# AWG/Metric Conductor Table

| | | Approx OD | | Area | | Weight | | DC Resistance (Bare)* | | DC Resistance (Tinned)* | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AWG | Stranding | Inch | mm | CMA | mm² | Lb/ 1000 ft | kg/km | Ohms/ 1000 ft | Ohms/ km | Ohms/ 1000 ft | Ohms/ km |
| 18 | Solid | 0.040 | 1.016 | 1624 | 0.823 | 4.92 | 7.32 | 6.39 | 21.0 | 6.64 | 21.8 |
| 18 | 7/.0152 | 0.046 | 1.168 | 1617 | 0.819 | 4.99 | 7.43 | 6.54 | 21.5 | 6.95 | 22.8 |
| 18 | 7/26 | 0.048 | 1.219 | 1771 | 0.897 | 5.47 | 8.14 | 5.97 | 19.6 | 6.34 | 20.8 |
| 18 | 16/30 | 0.047 | 1.194 | 1600 | 0.811 | 4.94 | 7.35 | 6.61 | 21.7 | 7.10 | 23.3 |
| 18 | 19/30 | 0.050 | 1.270 | 1900 | 0.963 | 5.87 | 8.74 | 5.57 | 18.3 | 5.98 | 19.6 |
| 18 | 41/34 | 0.047 | 1.194 | 1628 | 0.825 | 5.03 | 7.49 | 6.50 | 21.3 | 6.98 | 22.9 |
| 18 | 65/36 | 0.047 | 1.194 | 1625 | 0.823 | 5.02 | 7.47 | 6.51 | 21.4 | 6.99 | 22.9 |
| 18 | 105(7x15)/38 | 0.052 | 1.321 | 1680 | 0.851 | 5.29 | 7.87 | 6.42 | 21.1 | 6.89 | 22.6 |
| | | | | | | | | | | | |
| 16 | Solid | 0.051 | 1.295 | 2581 | 1.31 | 7.81 | 11.62 | 4.02 | 13.2 | 4.18 | 13.7 |
| 16 | 7/.0192 | 0.058 | 1.473 | 2583 | 1.31 | 7.98 | 11.88 | 4.10 | 13.5 | 4.35 | 14.3 |
| 16 | 7/24 | 0.060 | 1.524 | 2828 | 1.43 | 8.73 | 12.99 | 3.74 | 12.3 | 3.89 | 12.8 |
| 16 | 19/.0117 | 0.059 | 1.499 | 2603 | 1.32 | 8.04 | 11.96 | 4.06 | 13.3 | 4.32 | 14.2 |
| 16 | 19/29 | 0.057 | 1.448 | 2432 | 1.23 | 7.51 | 11.18 | 4.35 | 14.3 | 4.62 | 15.2 |
| 16 | 26/30 | 0.060 | 1.524 | 2600 | 1.32 | 8.03 | 11.95 | 4.07 | 13.4 | 4.37 | 14.3 |
| 16 | 65/34 | 0.059 | 1.499 | 2580 | 1.31 | 7.97 | 11.86 | 4.10 | 13.5 | 4.40 | 14.4 |
| 16 | 168(7x24)/38 | 0.067 | 1.702 | 2688 | 1.36 | 8.46 | 12.59 | 4.01 | 13.2 | 4.31 | 14.1 |
| | | | | | | | | | | | |
| 14 | Solid | 0.064 | 1.626 | 4109 | 2.08 | 12.4 | 18.45 | 2.52 | 8.27 | 2.62 | 8.60 |
| 14 | 7/22 | 0.076 | 1.930 | 4480 | 2.27 | 13.8 | 20.53 | 2.36 | 7.74 | 2.46 | 8.07 |
| 14 | 7/.0242 | 0.073 | 1.854 | 4102 | 2.08 | 12.7 | 18.90 | 2.58 | 8.46 | 2.68 | 8.79 |
| 14 | 19/.0147 | 0.074 | 1.880 | 4104 | 2.08 | 12.7 | 18.90 | 2.58 | 8.46 | 2.74 | 8.99 |
| 14 | 19/27 | 0.071 | 1.803 | 3838 | 1.94 | 11.8 | 17.56 | 2.76 | 9.06 | 2.93 | 9.61 |
| 14 | 41/30 | 0.074 | 1.880 | 4100 | 2.08 | 12.7 | 18.90 | 2.58 | 8.46 | 2.77 | 9.09 |
| 14 | 105/34 | 0.075 | 1.905 | 4168 | 2.11 | 12.9 | 19.20 | 2.54 | 8.33 | 2.72 | 8.92 |
| 14 | 266(7x38)/38 | 0.080 | 2.032 | 4256 | 2.16 | 13.4 | 19.94 | 2.53 | 8.30 | 2.72 | 8.92 |
| | | | | | | | | | | | |
| 12 | Solid | 0.081 | 2.057 | 6529 | 3.31 | 19.8 | 29.47 | 1.59 | 5.22 | 1.65 | 5.41 |
| 12 | 7/20 | 0.096 | 2.438 | 7168 | 3.63 | 22.1 | 32.88 | 1.48 | 4.85 | 1.53 | 5.02 |
| 12 | 7/.0305 | 0.092 | 2.337 | 6510 | 3.30 | 20.1 | 29.91 | 1.62 | 5.31 | 1.69 | 5.54 |
| 12 | 19/.0185 | 0.093 | 2.362 | 6498 | 3.29 | 20.1 | 29.91 | 1.63 | 5.35 | 1.73 | 5.68 |
| 12 | 19/25 | 0.090 | 2.286 | 6080 | 3.08 | 18.8 | 27.98 | 1.74 | 5.71 | 1.85 | 6.07 |
| 12 | 65/30 | 0.093 | 2.362 | 6500 | 3.29 | 20.1 | 29.91 | 1.63 | 5.35 | 1.75 | 5.74 |
| 12 | 168(7x24)/34 | 0.106 | 2.692 | 6670 | 3.38 | 21.0 | 31.25 | 1.62 | 5.31 | 1.74 | 5.71 |
| 12 | 413(7x59)/38 | 0.106 | 2.692 | 6608 | 3.35 | 20.8 | 30.95 | 1.63 | 5.35 | 1.75 | 5.74 |
| | | | | | | | | | | | |
| 10 | Solid | 0.102 | 2.591 | 10384 | 5.26 | 31.4 | 46.73 | 0.999 | 3.28 | 1.04 | 3.41 |
| 10 | 7/.0385 | 0.116 | 2.946 | 10374 | 5.26 | 32.0 | 47.62 | 1.02 | 3.35 | 1.06 | 3.48 |
| 10 | 19/.0234 | 0.117 | 2.972 | 10412 | 5.28 | 32.1 | 47.77 | 1.02 | 3.35 | 1.06 | 3.48 |
| 10 | 19/23 | 0.113 | 2.870 | 9709 | 4.92 | 30.0 | 44.64 | 1.09 | 3.58 | 1.13 | 3.71 |
| 10 | 37/.0167 | 0.117 | 2.972 | 10323 | 5.23 | 31.9 | 47.47 | 1.02 | 3.35 | 1.09 | 3.58 |
| 10 | 37/26 | 0.111 | 2.819 | 9361 | 4.74 | 28.9 | 43.01 | 1.13 | 3.71 | 1.20 | 3.94 |
| 10 | 105/30 | 0.118 | 2.997 | 10500 | 5.32 | 32.4 | 48.22 | 1.01 | 3.31 | 1.08 | 3.54 |
| 10 | 658(7x94)/38 | 0.132 | 3.353 | 10528 | 5.33 | 33.1 | 49.26 | 1.02 | 3.35 | 1.10 | 3.61 |

*Nominal resistance at 20˚C.


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# AWG/Metric Conductor Table

| | | Approx OD | | Area | | Weight | | DC Resistance (Bare)* | | DC Resistance (Tinned)* | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AWG | Stranding | Inch | mm | CMA | mm² | Lb/ 1000 ft | kg/km | Ohms/ 1000 ft | Ohms/ km | Ohms/ 1000 ft | Ohms/ km |
| 8 | Solid | 0.129 | 3.277 | 16512 | 8.37 | 50.0 | 74.41 | 0.628 | 2.06 | 0.646 | 2.12 |
| 8 | 19/.0295 | 0.148 | 3.759 | 16530 | 8.38 | 51.0 | 75.90 | 0.640 | 2.10 | 0.665 | 2.18 |
| 8 | 19/21 | 0.143 | 3.632 | 15428 | 7.82 | 47.6 | 70.84 | 0.686 | 2.25 | 0.713 | 2.34 |
| 8 | 49(7x7)/.0184 | 0.166 | 4.216 | 16611 | 8.42 | 52.3 | 77.83 | 0.649 | 2.13 | 0.690 | 2.26 |
| 8 | 65/26 | 0.148 | 3.759 | 16445 | 8.33 | 50.8 | 75.60 | 0.643 | 2.11 | 0.683 | 2.24 |
| 8 | 133(7x19)/29 | 0.169 | 4.293 | 17024 | 8.63 | 53.6 | 79.77 | 0.634 | 2.08 | 0.673 | 2.21 |
| 8 | 168(7x24)/30 | 0.167 | 4.242 | 16800 | 8.51 | 52.9 | 78.72 | 0.642 | 2.11 | 0.689 | 2.26 |
| 8 | 266(7x38)/32 | 0.166 | 4.216 | 17024 | 8.63 | 53.6 | 79.77 | 0.634 | 2.08 | 0.680 | 2.23 |
| 6 | 19/.0372 | 0.186 | 4.724 | 26296 | 13.3 | 81.2 | 120.84 | 0.402 | 1.32 | 0.418 | 1.37 |
| 6 | 19/19 | 0.180 | 4.572 | 24491 | 12.4 | 75.6 | 112.51 | 0.432 | 1.42 | 0.449 | 1.47 |
| 6 | 37/23 | 0.158 | 4.013 | 18907 | 9.58 | 58.4 | 86.91 | 0.559 | 1.83 | 0.582 | 1.91 |
| 6 | 49(7x7)/.0231 | 0.208 | 5.283 | 26166 | 13.3 | 81.6 | 121.43 | 0.408 | 1.34 | 0.425 | 1.39 |
| 6 | 105/26 | 0.188 | 4.775 | 26565 | 13.5 | 82.0 | 122.03 | 0.398 | 1.31 | 0.423 | 1.39 |
| 6 | 133(7x19)/27 | 0.213 | 5.410 | 26866 | 13.6 | 84.6 | 125.90 | 0.401 | 1.32 | 0.426 | 1.40 |
| 6 | 266(7x38)/30 | 0.210 | 5.334 | 26600 | 13.5 | 83.7 | 124.56 | 0.405 | 1.33 | 0.435 | 1.43 |
| 6 | 413(7x59)/32 | 0.212 | 5.385 | 26432 | 13.4 | 83.2 | 123.82 | 0.408 | 1.34 | 0.438 | 1.44 |
| 4 | 19/.0469 | 0.235 | 5.969 | 41800 | 21.2 | 129 | 191.97 | 0.253 | 0.830 | 0.263 | 0.863 |
| 4 | 49(7x7)/.0292 | 0.263 | 6.680 | 41797 | 21.2 | 130 | 193.46 | 0.256 | 0.840 | 0.266 | 0.873 |
| 4 | 133(7x19)/25 | 0.269 | 6.833 | 42560 | 21.6 | 134 | 199.41 | 0.253 | 0.830 | 0.269 | 0.883 |
| 4 | 168(7x24)/26 | 0.266 | 6.756 | 42504 | 21.5 | 134 | 199.41 | 0.254 | 0.833 | 0.270 | 0.886 |
| 4 | 413(7x59)//30 | 0.265 | 6.731 | 41300 | 20.9 | 130 | 193.46 | 0.261 | 0.856 | 0.280 | 0.919 |
| 4 | 420(7x60)/30 | 0.268 | 6.807 | 42000 | 21.3 | 132 | 196.44 | 0.257 | 0.843 | 0.276 | 0.906 |
| 4 | 665(19x35)/32 | 0.270 | 6.858 | 42560 | 21.6 | 134 | 199.41 | 0.253 | 0.830 | 0.272 | 0.892 |
| 2 | 19/.0591 | 0.296 | 7.518 | 66367 | 33.6 | 205 | 305.07 | 0.159 | 0.522 | 0.166 | 0.545 |
| 2 | 133(7x19)/23 | 0.339 | 8.611 | 67963 | 34.4 | 214 | 318.47 | 0.159 | 0.522 | 0.165 | 0.541 |
| 2 | 259(7x37)/26 | 0.334 | 8.484 | 65527 | 33.2 | 207 | 308.05 | 0.165 | 0.541 | 0.176 | 0.577 |
| 2 | 266(7x38)/26 | 0.334 | 8.484 | 67298 | 34.1 | 212 | 315.49 | 0.160 | 0.525 | 0.170 | 0.558 |
| 2 | 665 (7x95)/30 | 0.336 | 8.534 | 66500 | 33.7 | 209 | 311.03 | 0.162 | 0.531 | 0.174 | 0.571 |
| 2 | 665(19x35)/30 | 0.338 | 8.585 | 66500 | 33.7 | 209 | 311.03 | 0.162 | 0.531 | 0.174 | 0.571 |
| 2 | 1045(19x55)/32 | 0.342 | 8.687 | 66880 | 33.9 | 213 | 316.98 | 0.163 | 0.535 | 0.175 | 0.574 |
| 1 | 19/.0664 | 0.332 | 8.433 | 83771 | 42.4 | 259 | 385.43 | 0.126 | 0.413 | 0.131 | 0.430 |
| 1 | 133(7x19)/22 | 0.380 | 9.652 | 85120 | 43.1 | 268 | 398.83 | 0.127 | 0.417 | 0.132 | 0.433 |
| 1 | 259(7x37)/25 | 0.376 | 9.550 | 82880 | 42.0 | 262 | 389.90 | 0.131 | 0.430 | 0.139 | 0.456 |
| 1 | 836(19x44)/30 | 0.383 | 9.728 | 83600 | 42.4 | 266 | 395.85 | 0.130 | 0.427 | 0.140 | 0.459 |
| 1/0 | 19/.0745 | 0.373 | 9.474 | 105450 | 53.4 | 326 | 485.14 | 0.100 | 0.328 | 0.104 | 0.341 |
| 1/0 | 133(7x19)/21 | 0.428 | 10.871 | 107996 | 54.7 | 340 | 505.98 | 0.100 | 0.328 | 0.104 | 0.341 |
| 1/0 | 259(7x37)/24 | 0.422 | 10.719 | 104636 | 53.0 | 331 | 492.58 | 0.104 | 0.341 | 0.108 | 0.354 |
| 1/0 | 1045(19x55)/30 | 0.428 | 10.871 | 104500 | 53.0 | 332 | 494.07 | 0.104 | 0.341 | 0.112 | 0.367 |
| 1/0 | 1064(19x56)/30 | 0.430 | 10.922 | 106400 | 53.9 | 338 | 503.00 | 0.102 | 0.335 | 0.110 | 0.361 |
| 2/0 | 19/.0837 | 0.419 | 10.643 | 133114 | 67.4 | 411 | 611.64 | 0.079 | 0.259 | 0.083 | 0.272 |
| 2/0 | 133(7x19)/20 | 0.480 | 12.192 | 136192 | 69.0 | 429 | 638.42 | 0.079 | 0.259 | 0.082 | 0.269 |
| 2/0 | 259(7x37)23 | 0.474 | 12.040 | 132349 | 67.1 | 419 | 623.54 | 0.082 | 0.269 | 0.085 | 0.279 |
| 2/0 | 1323(7x7x27)/30 | 0.539 | 13.691 | 132300 | 67.0 | 424 | 630.98 | 0.083 | 0.272 | 0.089 | 0.292 |
| 2/0 | 1330(19x70)/30 | 0.483 | 12.268 | 133000 | 67.4 | 427 | 635.45 | 0.083 | 0.272 | 0.089 | 0.292 |

*Nominal resistance at 20˚C.



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# AWG/Metric Conductor Table

| | | Approx OD | | Area | | Weight | | DC Resistance (Bare)* | | DC Resistance (Tinned)* | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AWG | Stranding | Inch | mm | CMA | mm² | Lb/ 1000 ft | kg/km | Ohms/ 1000 ft | Ohms/ km | Ohms/ 1000 ft | Ohms/ km |
| 3/0 | 19/.0940 | 0.470 | 11.938 | 167884 | 85.1 | 518 | 770.87 | 0.063 | 0.207 | 0.066 | 0.217 |
| 3/0 | 133(7x19)/19 | 0.538 | 13.665 | 171437 | 86.9 | 540 | 803.61 | 0.063 | 0.207 | 0.065 | 0.213 |
| 3/0 | 259(7x37)/22 | 0.530 | 13.462 | 165760 | 84.0 | 524 | 779.80 | 0.065 | 0.213 | 0.068 | 0.223 |
| 3/0 | 1666(7x7x34)30 | 0.604 | 15.342 | 166600 | 84.4 | 535 | 796.17 | 0.066 | 0.217 | 0.071 | 0.233 |
| 3/0 | 1672(19x88)/30 | 0.540 | 13.716 | 167200 | 84.7 | 536 | 797.66 | 0.066 | 0.217 | 0.071 | 0.233 |
| 4/0 | 19/.1055 | 0.528 | 13.411 | 211470 | 107 | 653 | 971.77 | 0.050 | 0.164 | 0.051 | 0.167 |
| 4/0 | 133(7x19)/18 | 0.604 | 15.342 | 215992 | 109 | 680 | 1011.95 | 0.050 | 0.164 | 0.052 | 0.171 |
| 4/0 | 259(7x37)/21 | 0.598 | 15.189 | 210308 | 107 | 665 | 989.63 | 0.052 | 0.171 | 0.054 | 0.177 |
| 4/0 | 2107(7x7x43)/30 | 0.681 | 17.297 | 210700 | 107 | 676 | 1006.00 | 0.052 | 0.171 | 0.056 | 0.184 |
| 4/0 | 2109 (37x57)/30 | 0.590 | 14.986 | 210900 | 107 | 677 | 1007.49 | 0.052 | 0.171 | 0.056 | 0.184 |

*Nominal resistance at 20°C.

# AWG/Metric Comparison

## Stranded Conductors

| Cond. Diameter (mm²) | Stranding x Strand Dia. (mm) | Corresponding AWG |
|---|---|---|
| 0.014 | 7 x 0.05 | - |
| 0.035 | 7 x 0.08 | 32 |
| 0.047 | 24 x 0.05 | - |
| 0.049 | 1 x 0.25 | 30 |
| 0.055 | 7 x 0.10 | 30 |
| 0.079 | 10 x 0.10 | - |
| 0.079 | 7 x 0.12 | - |
| 0.080 | 1 x 0.32 | 28 |
| 0.093 | 7 x 0.13 | 28 |
| 0.094 | 12 x 0.10 | - |
| 0.094 | 48 x 0.05 | - |
| 0.096 | 19 x 0.08 | 28 |
| 0.113 | 10 x 0.12 | - |
| 0.118 | 60 x 0.05 | - |
| 0.118 | 15 x 0.10 | - |
| 0.124 | 7 x 0.15 | 26 |
| 0.126 | 1 x 0.40 | 26 |
| 0.149 | 19 x 0.10 | 26 |
| 0.177 | 10 x 0.15 | 24 |
| 0.188 | 24 x 0.10 | - |
| 0.196 | 1 x 0.50 | 24 |
| 0.212 | 27 x 0.10 | - |
| 0.212 | 12 x 0.15 | - |
| 0.220 | 7 x 0.20 | 24 |
| 0.251 | 32 x 0.10 | - |
| 0.252 | 19 x 0.13 | 24 |
| 0.283 | 1 x 0.60 | - |
| 0.291 | 37 x 0.10 | - |
| 0.314 | 40 x 0.10 | - |
| 0.322 | 1 x 0.64 | 22 |
| 0.336 | 19 x 0.15 | 22 |
| 0.344 | 7 x 0.25 | 22 |
| 0.377 | 12 x 0.20 | - |
| 0.377 | 48 x 0.10 | - |
| 0.389 | 22 x 0.15 | - |
| 0.442 | 1 x 0.75 | - |
| 0.459 | 26 x 0.15 | 20 |
| 0.491 | 10 x 0.25 | 20 |
| 0.495 | 7 x 0.30 | - |
| 0.503 | 16 x 0.20 | - |
| 0.515 | 1 x 0.81 | 20 |
| 0.563 | 7 x 0.32 | 20 |
| 0.597 | 19 x 0.20 | 20 |
| 0.636 | 36 x 0.15 | - |
| 0.754 | 24 x 0.20 | - |
| 0.785 | 16 x 0.25 | 18 |
| 0.817 | 1 x 1.02 | 18 |
| 0.848 | 12 x 0.30 | - |
| 0.880 | 7 x 0.40 | 18 |
| 0.933 | 19 x 0.25 | 18 |
| 0.990 | 56 x 0.15 | - |
| 1.005 | 32 x 0.20 | - |
| 1.276 | 26 x 0.25 | 16 |
| 1.327 | 1 x 1.30 | 16 |
| 1.343 | 19 x 0.30 | 16 |
| 1.374 | 7 x 0.50 | 16 |
| 1.473 | 30 x 0.25 | - |
| 1.508 | 12 x 0.40 | - |
| 1.828 | 19 x 0.35 | 14 |
| 1.885 | 60 x 0.20 | - |
| 1.909 | 27 x 0.030 | - |
| 1.979 | 7 x 0.60 | - |
| 2.011 | 16 x 0.40 | - |
| 2.013 | 41 x 0.25 | 14 |
| 2.087 | 1 x 1.63 | 14 |
| 2.454 | 50 x 0.25 | 14 |
| 3.022 | 19 x 0.45 | 12 |
| 3.142 | 16 x 0.50 | - |
| 3.181 | 45 x 0.30 | - |
| 3.191 | 65 x 0.25 | 12 |
| 3.393 | 48 x 0.30 | - |
| 3.958 | 56 x 0.30 | - |
| 4.650 | 37 x 0.40 | - |
| 4.714 | 7 x 7 x 0.35 | - |
| 5.154 | 105 x 0.25 | - |
| 5.160 | 73 x 0.30 | 10 |
| 5.300 | 75 x 0.30 | 10 |

# Conductor Color Coding

## Multipair Cables

**Chart A**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|---|---|
| 1 | Black +Red | 14 | Green + Blue | 27 | Brown + Yellow | 40 | Slate + Blue |
| 2 | Black + White | 15 | Green + White | 28 | Violet + Red | 41 | Slate + Brown |
| 3 | Black + Green | 16 | Green + Brown | 29 | Violet + White | 42 | Slate + Yellow |
| 4 | Black + Blue | 17 | Green + Orange | 30 | Violet + Green | 43 | Slate + Orange |
| 5 | Black + Brown | 18 | Green + Yellow | 31 | Violet + Blue | 44 | Slate + Black |
| 6 | Black + Yellow | 19 | White + Blue | 32 | Violet + Brown | 45 | White/Black + Red |
| 7 | Black + Orange | 20 | White + Brown | 33 | Violet + Yellow | 46 | White/Black + Green |
| 8 | Red + Green | 21 | White + Orange | 34 | Violet + Orange | 47 | White/Black + Blue |
| 9 | Red + White | 22 | White + Yellow | 35 | Violet + Slate | 48 | White/Black + Brown |
| 10 | Red + Blue | 23 | Blue + Brown | 36 | Violet + Black | 49 | White/Black + Yellow |
| 11 | Red + Yellow | 24 | Blue + Orange | 37 | Slate + Red | 50 | White/Black + Orange |
| 12 | Red + Brown | 25 | Blue + Yellow | 38 | Slate + White | 51 | White/Black + Violet |
| 13 | Red + Orange | 26 | Brown + Orange | 39 | Slate + Green | | |

**Chart A1**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|---|---|
| 1 | Black +Red | 14 | Green + White | 27 | Brown + Orange | 40 | Slate + Blue |
| 2 | Black + White | 15 | Green + Blue | 28 | Violet + Red | 41 | Slate + Brown |
| 3 | Black + Green | 16 | Green + Yellow | 29 | Violet + White | 42 | Slate + Yellow |
| 4 | Black + Blue | 17 | Green + Brown | 30 | Violet + Green | 43 | Slate + Orange |
| 5 | Black + Yellow | 18 | Green + Orange | 31 | Violet + Blue | 44 | Slate + Black |
| 6 | Black + Brown | 19 | White + Blue | 32 | Violet + Brown | 45 | White/Black + Red |
| 7 | Black + Orange | 20 | White + Yellow | 33 | Violet + Yellow | 46 | White/Black + Green |
| 8 | Red + White | 21 | White + Brown | 34 | Violet + Orange | 47 | White/Black + Blue |
| 9 | Red + Green | 22 | White + Orange | 35 | Violet + Slate | 48 | White/Black + Brown |
| 10 | Red + Blue | 23 | Blue + Yellow | 36 | Violet + Black | 49 | White/Black + Yellow |
| 11 | Red + Yellow | 24 | Blue + Brown | 37 | Slate + Red | 50 | White/Black + Orange |
| 12 | Red + Brown | 25 | Blue + Orange | 38 | Slate + White | 51 | White/Black + Violet |
| 13 | Red + Orange | 26 | Brown + Yellow | 39 | Slate + Green | | |

**Chart B**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|
| 1 | White +Black | 35 | Orange +Slate | 69 | White/Red +Green |
| 2 | White +Brown | 36 | Yellow +Green | 70 | White/Red +Blue |
| 3 | White +Red | 37 | Yellow +Blue | 71 | White/Red +Violet |
| 4 | White +Orange | 38 | Yellow +Violet | 72 | White/Red +Slate |
| 5 | White +Yellow | 39 | Yellow +Slate | 73 | White/Orange +Black |
| 6 | White +Green | 40 | Green +Blue | 74 | White/Orange +Brown |
| 7 | White +Blue | 41 | Green +Violet | 75 | White/Orange +Red |
| 8 | White +Violet | 42 | Green +Slate | 76 | White/Orange +Orange |
| 9 | White +Slate | 43 | Blue +Violet | 77 | White/Orange +Yellow |
| 10 | Black +Brown | 44 | Blue +Slate | 78 | White/Orange +Green |
| 11 | Black +Red | 45 | Violet +Slate | 79 | White/Orange +Blue |
| 12 | Black +Orange | 46 | White/Black +Black | 80 | White/Orange +Violet |
| 13 | Black +Yellow | 47 | White/Black +Brown | 81 | White/Orange +Slate |
| 14 | Black +Green | 48 | White/Black +Red | 82 | White/Yellow +Black |
| 15 | Black +Blue | 49 | White/Black +Orange | 83 | White/Yellow +Brown |
| 16 | Black +Violet | 50 | White/Black +Yellow | 84 | White/Yellow +Red |
| 17 | Black +Slate | 51 | White/Black +Green | 85 | White/Yellow +Orange |
| 18 | Brown +Red | 52 | White/Black +Blue | 86 | White/Yellow +Yellow |
| 19 | Brown +Orange | 53 | White/Black +Violet | 87 | White/Yellow +Green |
| 20 | Brown +Yellow | 54 | White/Black +Slate | 88 | White/Yellow +Blue |
| 21 | Brown +Green | 55 | White/Brown +Black | 89 | White/Yellow +Violet |
| 22 | Brown +Blue | 56 | White/Brown +Brown | 90 | White/Yellow +Slate |
| 23 | Brown +Violet | 57 | White/Brown +Red | 91 | White/Green +Black |
| 24 | Brown +Slate | 58 | White/Brown +Orange | 92 | White/Green +Brown |
| 25 | Red +Orange | 59 | White/Brown +Yellow | 93 | White/Green +Red |
| 26 | Red +Yellow | 60 | White/Brown +Green | 94 | White/Green +Orange |
| 27 | Red +Green | 61 | White/Brown +Blue | 95 | White/Green +Yellow |
| 28 | Red +Blue | 62 | White/Brown +Violet | 96 | White/Green +Green |
| 29 | Red +Violet | 63 | White/Brown +Slate | 97 | White/Green +Blue |
| 30 | Red +Slate | 64 | White/Red +Black | 98 | White/Green +Violet |
| 31 | Orange +Yellow | 65 | White/Red +Brown | 99 | White/Green +Slate |
| 32 | Orange +Green | 66 | White/Red +Red | 100 | White/Blue +Black |
| 33 | Orange +Blue | 67 | White/Red +Orange | 101 | White/Blue +Brown |
| 34 | Orange +Violet | 68 | White/Red +Yellow | 102 | White/Blue +Red |



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# Conductor Color Coding

## Multipair Cables

**Chart BR**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|---|---|
| 1 | Black #1 +Red #1 | 14 | Black #14 + Red #14 | 27 | Black #27 + Red #27 | 40 | Black #40 + Red #40 |
| 2 | Black #2 + Red #2 | 15 | Black #15 + Red #15 | 28 | Black #28 + Red #28 | 41 | Black #41 + Red #41 |
| 3 | Black #3 + Red #3 | 16 | Black #16 + Red #16 | 29 | Black #29 + Red #29 | 42 | Black #42 + Red #42 |
| 4 | Black #4 + Red #4 | 17 | Black #17 + Red #17 | 30 | Black #30 + Red #30 | 43 | Black #43 + Red #43 |
| 5 | Black #5 + Red #5 | 18 | Black #18 + Red #18 | 31 | Black #31 + Red #31 | 44 | Black #44 + Red #44 |
| 6 | Black #6 + Red #6 | 19 | Black #19 + Red #19 | 32 | Black #32 + Red #32 | 45 | Black #45 + Red #45 |
| 7 | Black #7 + Red #7 | 20 | Black #20 + Red #20 | 33 | Black #33 + Red #33 | 46 | Black #46 + Red #46 |
| 8 | Black #8 + Red #8 | 21 | Black #21 + Red #21 | 34 | Black #34 + Red #34 | 47 | Black #47 + Red #47 |
| 9 | Black #9 + Red #9 | 22 | Black #22 + Red #22 | 35 | Black #35 + Red #35 | 48 | Black #48 + Red #48 |
| 10 | Black #10 + Red #10 | 23 | Black #23 + Red #23 | 36 | Black #36 + Red #36 | 49 | Black #49 + Red #49 |
| 11 | Black #11 + Red #11 | 24 | Black #24 + Red #24 | 37 | Black #37 + Red #37 | 50 | Black #50 + Red #50 |
| 12 | Black #12 + Red #12 | 25 | Black #25 + Red #25 | 38 | Black #38 + Red #38 | 51 | Black #51 + Red #51 |
| 13 | Black #13 + Red #13 | 26 | Black #26 + Red #26 | 39 | Black #39 + Red #39 | | |

**Chart BW**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|---|---|
| 1 | Black +White #1 | 14 | Black + White #14 | 27 | Black + White #27 | 40 | Black + White #40 |
| 2 | Black + White #2 | 15 | Black + White #15 | 28 | Black + White #28 | 41 | Black + White #41 |
| 3 | Black + White #3 | 16 | Black + White #16 | 29 | Black + White #29 | 42 | Black + White #42 |
| 4 | Black + White #4 | 17 | Black + White #17 | 30 | Black + White #30 | 43 | Black + White #43 |
| 5 | Black + White #5 | 18 | Black + White #18 | 31 | Black + White #31 | 44 | Black + White #44 |
| 6 | Black + White #6 | 19 | Black + White #19 | 32 | Black + White #32 | 45 | Black + White #45 |
| 7 | Black + White #7 | 20 | Black + White #20 | 33 | Black + White #33 | 46 | Black + White #46 |
| 8 | Black + White #8 | 21 | Black + White #21 | 34 | Black + White #34 | 47 | Black + White #47 |
| 9 | Black + White #9 | 22 | Black + White #22 | 35 | Black + White #35 | 48 | Black + White #48 |
| 10 | Black + White #10 | 23 | Black + White #23 | 36 | Black + White #36 | 49 | Black + White #49 |
| 11 | Black + White #11 | 24 | Black + White #24 | 37 | Black + White #37 | 50 | Black + White #50 |
| 12 | Black + White #12 | 25 | Black + White #25 | 38 | Black + White #38 | | |
| 13 | Black + White #13 | 26 | Black + White #26 | 39 | Black + White #39 | | |

**Chart C**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|---|---|
| 1 | Blue + White | 14 | Orange/Slate + White | 27 | Blue/Orange + Red | 40 | Slate/White + Red |
| 2 | Orange + White | 15 | Green/White + White | 28 | Blue/Green + Red | 41 | Blue + Black |
| 3 | Green + White | 16 | Green/Brown + White | 29 | Blue/Brown + Red | 42 | Orange + Black |
| 4 | Brown + White | 17 | Green/Slate + White | 30 | Blue/Slate + Red | 43 | Green + Black |
| 5 | Slate + White | 18 | Brown/White + White | 31 | Orange/White + Red | 44 | Brown + Black |
| 6 | Blue/White + White | 19 | Brown/Slate + White | 32 | Orange/Green + Red | 45 | Slate + Black |
| 7 | Blue/Orange + White | 20 | Slate/White + White | 33 | Orange/Brown + Red | 46 | Blue/White + Black |
| 8 | Blue/Green + White | 21 | Blue + Red | 34 | Orange/Slate + Red | 47 | Blue/Orange + Black |
| 9 | Blue/Brown + White | 22 | Orange + Red | 35 | Green/White + Red | 48 | Blue/Green + Black |
| 10 | Blue/Slate + White | 23 | Green + Red | 36 | Green/Brown + Red | 49 | Blue/Brown + Black |
| 11 | Orange/White + White | 24 | Brown + Red | 37 | Green/Slate + Red | 50 | Blue/Slate + Black |
| 12 | Orange/Green + White | 25 | Slate + Red | 38 | Brown/White + Red | 51 | Orange/White + Black |
| 13 | Orange/Brown + White | 26 | Blue/White + Red | 39 | Brown/Slate + Red | | |

**Chart K**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|
| 1 | Black +Red | 14 | Green +White | 27 | Brown +Orange |
| 2 | Black +White | 15 | Green +Blue | 28 | Orange +Yellow |
| 3 | Black +Green | 16 | Green +Yellow | 29 | Violet +Orange |
| 4 | Black +Blue | 17 | Green +Brown | 30 | Violet +Red |
| 5 | Black +Yellow | 18 | Green +Orange | 31 | Violet +White |
| 6 | Black +Brown | 19 | White +Blue | 32 | Violet +Green |
| 7 | Black +Orange | 20 | White +Yellow | 33 | Violet +Blue |
| 8 | Red +White | 21 | White +Brown | 34 | Violet +Yellow |
| 9 | Red +Green | 22 | White +Orange | 35 | Violet +Brown |
| 10 | Red +Blue | 23 | Blue +Yellow | 36 | Violet +Black |
| 11 | Red +Yellow | 24 | Blue +Brown | 37 | Slate +White |
| 12 | Red +Brown | 25 | Blue +Orange | | |
| 13 | Red +Orange | 26 | Brown +Yellow | | |

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# Conductor Color Coding

## Multipair Cables

**Chart L**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|
| 1 | White + Blue | 10 | Red + Slate | 19 | Yellow + Brown |
| 2 | White + Orange | 11 | Black + Blue | 20 | Yellow + Slate |
| 3 | White + Green | 12 | Black + Orange | 21 | Violet + Blue |
| 4 | White + Brown | 13 | Black + Green | 22 | Violet + Orange |
| 5 | White + Slate | 14 | Black + Brown | 23 | Violet + Green |
| 6 | Red + Blue | 15 | Black + Slate | 24 | Violet + Brown |
| 7 | Red + Orange | 16 | Yellow + Blue | 25 | Violet + Slate |
| 8 | Red + Green | 17 | Yellow + Orange | | |
| 9 | Red + Brown | 18 | Yellow + Green | | |

**Chart M**

| Pair No. | Color Combination | Pair No. | Color Combination | Pair No. | Color Combination |
|---|---|---|---|---|---|
| 1 | Blue/White + White/Blue | 10 | Slate/Red + Red/Slate | 19 | Brown/Yellow + Yellow/Brown |
| 2 | Orange/White + White/Orange | 11 | Blue/Black + Black/Blue | 20 | Slate/Yellow + Yellow/Slate |
| 3 | Green/White + White/Green | 12 | Orange/Black + Black/Orange | 21 | Blue/Violet + Violet/Blue |
| 4 | Brown/White + White/Brown | 13 | Green/Black + Black/Green | 22 | Orange/Violet + Violet/Orange |
| 5 | Slate/White + White/Slate | 14 | Brown/Black + Black/Brown | 23 | Green/Violet + Violet/Green |
| 6 | Blue/Red + Red/Blue | 15 | Slate/Black + Black/Slate | 24 | Brown/Violet + Violet/Brown |
| 7 | Orange/Red + Red/Orange | 16 | Blue/Yellow + Yellow/Blue | 25 | Slate/Violet + Violet/Slate |
| 8 | Green/Red + Red/Green | 17 | Orange/Yellow + Yellow/Orange | | |
| 9 | Brown/Red + Red/Brown | 18 | Green/Yellow + Yellow/Green | | |

**Chart N**

| Pair No. | Color Combination |
|---|---|
| 1 | Black + Yellow |
| 2 | Red + Violet |
| 3 | Blue + Brown |
| 4 | Orange + Green |
| 5 | Black/White + White/Black |
| 6 | Brown/White + White/Brown |
| 7 | Red/White + White/Red |
| 8 | Orange/White + White/Orange |
| 9 | Yellow/White + White/Yellow |
| 10 | Green/White + White/Green |
| 11 | Blue/White + White/Blue |
| 12 | Violet/White + White/Violet |

**Chart Q**

| Pair No. | Color Combination |
|---|---|
| 1 | Black + White |
| 2 | Red + Green |
| 3 | Brown + Blue |
| 4 | Orange + Yellow |
| 5 | Violet + Slate |
| 6 | Tan + Pink |
| 7 | White/Blue + Blue/White |
| 8 | White/Brown + Brown/White |
| 9 | White/Orange + Orange/White |
| 10 | White/Green + Green/White |
| 11 | White/Red + Red/White |
| 12 | White/Black + Black/White |
| 13 | Yellow/Blue + Blue/Yellow |
| 14 | Yellow/Brown + Brown/Yellow |
| 15 | Yellow/Orange + Orange/Yellow |
| 16 | Yellow/Red + Red/Yellow |
| 17 | Yellow/Black + Black/Yellow |
| 18 | Yellow/Violet + Violet/Yellow |


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# Conductor Color Coding

## Multiconductor Cables

### Chart D

| No. | Base Color | 1st Stripe | 2nd Stripe | 3rd Stripe |
|---|---|---|---|---|
| 1 | Black | | | |
| 2 | Red | | | |
| 3 | White | | | |
| 4 | Green | | | |
| 5 | Orange | | | |
| 6 | Blue | | | |
| 7 | Brown | | | |
| 8 | Yellow | | | |
| 9 | Violet | | | |
| 10 | Slate | | | |
| 11 | Pink | | | |
| 12 | Tan | | | |
| 13 | Red | Green | | |
| 14 | Red | Yellow | | |
| 15 | Red | Black | | |
| 16 | White | Black | | |
| 17 | White | Red | | |
| 18 | White | Green | | |
| 19 | White | Yellow | | |
| 20 | White | Blue | | |
| 21 | White | Brown | | |
| 22 | White | Orange | | |
| 23 | White | Slate | | |
| 24 | White | Violet | | |
| 25 | White | Black | Red | |
| 26 | White | Black | Green | |
| 27 | White | Black | Yellow | |
| 28 | White | Black | Blue | |
| 29 | White | Black | Brown | |
| 30 | White | Black | Orange | |
| 31 | White | Black | Slate | |
| 32 | White | Black | Violet | |
| 33 | White | Black | Black | |
| 34 | White | Red | Black | |
| 35 | White | Red | Red | |
| 36 | White | Red | Green | |
| 37 | White | Red | Blue | |
| 38 | White | Red | Brown | |
| 39 | White | Red | Violet | |
| 40 | White | Green | Black | |
| 41 | White | Green | Red | |
| 42 | White | Green | Green | |
| 43 | White | Green | Blue | |
| 44 | White | Green | Brown | |
| 45 | White | Green | Violet | |
| 46 | White | Blue | Black | |
| 47 | White | Blue | Red | |
| 48 | White | Blue | Green | |
| 49 | White | Blue | Blue | |
| 50 | White | Blue | Brown | |
| 51 | White | Blue | Violet | |
| 52 | White | Brown | Black | |
| 53 | White | Brown | Red | |
| 54 | White | Brown | Green | |
| 55 | White | Brown | Blue | |
| 56 | White | Brown | Brown | |
| 57 | White | Brown | Violet | |
| 58 | White | Violet | Red | |
| 59 | White | Violet | Green | |
| 60 | White | Violet | Blue | |
| 61 | White | Black | Red | Green |
| 62 | White | Black | Red | Yellow |
| 63 | White | Black | Red | Blue |
| 64 | White | Black | Red | Brown |
| 65 | White | Black | Red | Orange |
| 66 | White | Black | Red | Slate |
| 67 | White | Black | Red | Violet |
| 68 | White | Black | Green | Yellow |
| 69 | White | Black | Green | Blue |
| 70 | White | Black | Green | Brown |
| 71 | White | Black | Green | Orange |
| 72 | White | Black | Green | Slate |
| 73 | White | Black | Green | Violet |
| 74 | White | Black | Yellow | Blue |
| 75 | White | Black | Yellow | Brown |
| 76 | White | Black | Yellow | Orange |
| 77 | White | Black | Yellow | Slate |
| 78 | White | Black | Yellow | Violet |
| 79 | White | Black | Blue | Brown |
| 80 | White | Black | Blue | Orange |
| 81 | White | Black | Blue | Slate |
| 82 | White | Black | Blue | Violet |
| 83 | White | Black | Brown | Orange |
| 84 | White | Black | Brown | Slate |
| 85 | White | Black | Brown | Violet |
| 86 | White | Black | Orange | Slate |
| 87 | White | Black | Orange | Violet |
| 88 | White | Black | Slate | Violet |
| 89 | White | Red | Black | Green |
| 90 | White | Red | Black | Yellow |
| 91 | White | Red | Black | Blue |
| 92 | White | Red | Black | Brown |
| 93 | White | Red | Black | Orange |
| 94 | White | Red | Black | Slate |
| 95 | White | Red | Black | Violet |
| 96 | White | Red | Green | Yellow |
| 97 | White | Red | Green | Blue |
| 98 | White | Red | Green | Brown |
| 99 | White | Red | Green | Orange |
| 100 | White | Red | Green | Slate |

### Chart D1

| No. | Color |
|---|---|
| 1 | Black |
| 2 | Red |
| 3 | White |
| 4 | Green |
| 5 | Yellow |
| 6 | Blue |

### Chart CE

| No. | Color |
|---|---|
| 1 | Green/Yellow |
| 2 | Lt. Blue |
| 3 | Black |
| 4 | Brown |

### Chart D2

| No. | Base Color | Stripe |
|---|---|---|
| 1 | Black | |
| 2 | White | |
| 3 | Red | |
| 4 | Green | |
| 5 | Brown | |
| 6 | Blue | |
| 7 | Orange | |
| 8 | Yellow | |
| 9 | Violet | |
| 10 | Slate | |
| 11 | Pink | |
| 12 | Tan | |
| 13 | White | Blue |
| 14 | White | Orange |
| 15 | White | Green |
| 16 | White | Brown |
| 17 | White | Slate |
| 18 | Red | Blue |
| 19 | Red | Orange |
| 20 | Red | Green |
| 21 | Red | Brown |
| 22 | Red | Slate |
| 23 | Green | Blue |
| 24 | Green | Orange |
| 25 | Green | Brown |


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# Conductor Color Coding

## Multiconductor Cables

### Chart E

| No. | Base Color | 1st Stripe | 2nd Stripe | 3rd Stripe |
|---|---|---|---|---|
| 1 | Black | | | |
| 2 | Brown | | | |
| 3 | Red | | | |
| 4 | Orange | | | |
| 5 | Yellow | | | |
| 6 | Green | | | |
| 7 | Blue | | | |
| 8 | Violet | | | |
| 9 | Slate | | | |
| 10 | White | | | |
| 11 | White | Black | | |
| 12 | White | Brown | | |
| 13 | White | Red | | |
| 14 | White | Orange | | |
| 15 | White | Yellow | | |
| 16 | White | Green | | |
| 17 | White | Blue | | |
| 18 | White | Violet | | |
| 19 | White | Slate | | |
| 20 | White | Black | Brown | |
| 21 | White | Black | Red | |
| 22 | White | Black | Orange | |
| 23 | White | Black | Yellow | |
| 24 | White | Black | Green | |
| 25 | White | Black | Blue | |
| 26 | White | Black | Violet | |
| 27 | White | Black | Slate | |
| 28 | White | Brown | Red | |
| 29 | White | Brown | Orange | |
| 30 | White | Brown | Yellow | |
| 31 | White | Brown | Green | |
| 32 | White | Brown | Blue | |
| 33 | White | Brown | Violet | |
| 34 | White | Brown | Slate | |
| 35 | White | Red | Orange | |
| 36 | White | Red | Yellow | |
| 37 | White | Red | Green | |
| 38 | White | Red | Blue | |
| 39 | White | Red | Violet | |
| 40 | White | Red | Slate | |
| 41 | White | Orange | Yellow | |
| 42 | White | Orange | Green | |
| 43 | White | Orange | Blue | |
| 44 | White | Orange | Violet | |
| 45 | White | Orange | Slate | |
| 46 | White | Yellow | Green | |
| 47 | White | Yellow | Blue | |
| 48 | White | Yellow | Violet | |
| 49 | White | Yellow | Slate | |
| 50 | White | Green | Blue | |
| 51 | White | Green | Violet | |
| 52 | White | Green | Slate | |
| 53 | White | Blue | Violet | |
| 54 | White | Blue | Slate | |
| 55 | White | Violet | Slate | |
| 56 | White | Black | Brown | Red |
| 57 | White | Black | Brown | Orange |
| 58 | White | Black | Brown | Yellow |
| 59 | White | Black | Brown | Green |
| 60 | White | Black | Brown | Blue |
| 61 | White | Black | Brown | Violet |
| 62 | White | Black | Brown | Slate |
| 63 | White | Black | Red | Yellow |
| 64 | White | Black | Red | Green |
| 65 | White | Black | Red | Blue |
| 66 | White | Black | Red | Violet |
| 67 | White | Black | Red | Slate |
| 68 | White | Black | Orange | Yellow |
| 69 | White | Black | Orange | Green |
| 70 | White | Black | Orange | Blue |
| 71 | White | Black | Orange | Violet |
| 72 | White | Black | Orange | Slate |
| 73 | White | Black | Yellow | Green |
| 74 | White | Black | Yellow | Blue |
| 75 | White | Black | Yellow | Violet |
| 76 | White | Black | Yellow | Slate |
| 77 | White | Black | Green | Blue |
| 78 | White | Black | Green | Violet |
| 79 | White | Black | Green | Slate |
| 80 | White | Black | Blue | Violet |
| 81 | White | Black | Blue | Slate |
| 82 | White | Black | Violet | Slate |
| 83 | White | Brown | Red | Orange |
| 84 | White | Brown | Red | Yellow |
| 85 | White | Brown | Red | Green |
| 86 | White | Brown | Red | Blue |
| 87 | White | Brown | Red | Violet |
| 88 | White | Brown | Red | Slate |
| 89 | White | Brown | Orange | Yellow |
| 90 | White | Brown | Orange | Green |
| 91 | White | Brown | Orange | Blue |
| 92 | White | Brown | Orange | Violet |
| 93 | White | Brown | Orange | Slate |
| 94 | White | Brown | Yellow | Green |
| 95 | White | Brown | Yellow | Blue |
| 96 | White | Brown | Yellow | Violet |
| 97 | White | Brown | Yellow | Slate |
| 98 | White | Brown | Green | Blue |
| 99 | White | Brown | Green | Violet |
| 100 | White | Brown | Green | Slate |

### Chart F

| No. | Base Color | 1st Stripe | 2nd Stripe |
|---|---|---|---|
| 1 | Black | | |
| 2 | White | | |
| 3 | Red | | |
| 4 | Green | | |
| 5 | Orange | | |
| 6 | Blue | | |
| 7 | White | Black | |
| 8 | Red | Black | |
| 9 | Green | Black | |
| 10 | Orange | Black | |
| 11 | Blue | Black | |
| 12 | Black | White | |
| 13 | Red | White | |
| 14 | Green | White | |
| 15 | Blue | White | |
| 16 | Black | Red | |
| 17 | White | Red | |
| 18 | Orange | Red | |
| 19 | Blue | Red | |
| 20 | Red | Green | |
| 21 | Orange | Green | |
| 22 | Black | White | Red |
| 23 | White | Black | Red |
| 24 | Red | Black | White |
| 25 | Green | Black | White |
| 26 | Orange | Black | White |
| 27 | Blue | Black | White |
| 28 | Black | Red | Green |
| 29 | White | Red | Green |
| 30 | Red | Black | Green |
| 31 | Green | Black | Orange |
| 32 | Orange | Black | Green |
| 33 | Blue | White | Orange |
| 34 | Black | White | Orange |
| 35 | White | Red | Orange |
| 36 | Orange | White | Blue |
| 37 | White | Red | Blue |
| 38 | Black | White | Green |
| 39 | White | Black | Green |
| 40 | Red | White | Green |
| 41 | Green | White | Blue |
| 42 | Orange | Red | Green |
| 43 | Blue | Red | Green |
| 44 | Black | White | Blue |
| 45 | White | Black | Blue |
| 46 | Red | White | Blue |
| 47 | Green | Orange | Red |
| 48 | Orange | Red | Blue |
| 49 | Blue | Red | Orange |
| 50 | Black | Orange | Red |
| 51 | White | Black | Orange |
| 52 | Red | Orange | Black |
| 53 | Green | Red | Blue |
| 54 | Orange | Black | Blue |
| 55 | Blue | Black | Orange |
| 56 | Black | Orange | Green |
| 57 | White | Orange | Green |
| 58 | Red | Orange | Green |
| 59 | Green | Black | Blue |
| 60 | Orange | Green | Blue |

### Chart G

| No. | Base Color | Stripe |
|---|---|---|
| 1 | White | |
| 2 | Black | |
| 3 | Red | |
| 4 | Green | |
| 5 | Yellow | |
| 6 | Blue | |
| 7 | Brown | |
| 8 | Orange | |
| 9 | Slate | |
| 10 | Violet | |
| 11 | White | Black |
| 12 | White | Brown |
| 13 | White | Red |
| 14 | White | Orange |
| 15 | White | Yellow |



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# Conductor Color Coding

## Multiconductor Cables

### Chart H

| No. | Base Color | Stripe | No. | Base Color | Stripe | No. | Base Color | Stripe |
|---|---|---|---|---|---|---|---|---|
| 1 | Black | | 8 | Orange | | 15 | White | Blue |
| 2 | White | | 9 | Slate | | 16 | White | Brown |
| 3 | Red | | 10 | Violet | | 17 | White | Violet |
| 4 | Green | | 11 | White | Black | 18 | White | Slate |
| 5 | Yellow | | 12 | White | Red | 19 | Black | Red |
| 6 | Blue | | 13 | White | Green | 20 | Black | Yellow |
| 7 | Brown | | 14 | White | Yellow | | | |

### Chart I

| No. | Color |
|---|---|
| 1 | Green |
| 2 | White |
| 3 | Brown |
| 4 | Blue |
| 5 | Orange |
| 6 | Yellow |

### Chart I2

| No. | Color | Stripe |
|---|---|---|
| 1 | Brown | |
| 2 | Blue | |
| 3 | Green | Yellow |

### Chart J

| No. | Base Color | Stripe | No. | Base Color | Stripe |
|---|---|---|---|---|---|
| 1 | Black | | 20 | Yellow | Blue |
| 2 | Red | | 21 | Brown | Blue |
| 3 | Blue | | 22 | Black | Orange |
| 4 | Orange | | 23 | Red | Orange |
| 5 | Yellow | | 24 | Blue | Orange |
| 6 | Brown | | 25 | Yellow | Orange |
| 7 | Red | Black | 26 | Brown | Orange |
| 8 | Blue | Black | 27 | Black | Yellow |
| 9 | Orange | Black | 28 | Red | Yellow |
| 10 | Yellow | Black | 29 | Blue | Yellow |
| 11 | Brown | Black | 30 | Orange | Yellow |
| 12 | Black | Red | 31 | Brown | Yellow |
| 13 | Blue | Red | 32 | Black | Brown |
| 14 | Orange | Red | 33 | Red | Brown |
| 15 | Yellow | Red | 34 | Blue | Brown |
| 16 | Brown | Red | 35 | Orange | Brown |
| 17 | Black | Blue | 36 | Yellow | Brown |
| 18 | Red | Blue | 37 | Black | |
| 19 | Orange | Blue | | | |

### Chart J1

| No. | Base Color | Stripe |
|---|---|---|
| 1 | Black #1 | |
| 2 | Red #2 | |
| 3 | Blue #3 | |
| 4 | Orange #4 | |
| 5 | Yellow #5 | |
| 6 | Brown #6 | |
| 7 | Red | Black #7 |
| 8 | Blue | Black #8 |
| 9 | Orange | Black #9 |
| 10 | Yellow | Black #10 |
| 11 | Brown | Black #11 |
| 12 | Black | Red #12 |

### Chart KW

| No. | Color | No. | Color |
|---|---|---|---|
| 1 | Green/Yellow | 34 | Black #33 |
| 2 | Black #1 | 35 | Black #34 |
| 3 | White/Black* | 36 | Black #35 |
| 4 | Black #3 | 37 | Black #36 |
| 5 | Black #4 | 38 | Black #37 |
| 6 | Black #5 | 39 | Black #38 |
| 7 | Black #6 | 40 | Black #39 |
| 8 | Black #7 | 41 | Black #40 |
| 9 | Black #8 | 42 | Black #41 |
| 10 | Black #9 | 43 | Black #42 |
| 11 | Black #10 | 44 | Black #43 |
| 12 | Black #11 | 45 | Black #44 |
| 13 | Black #12 | 46 | Black #45 |
| 14 | Black #13 | 47 | Black #46 |
| 15 | Black #14 | 48 | Black #47 |
| 16 | Black #15 | 49 | Black #48 |
| 17 | Black #16 | 50 | Black #49 |
| 18 | Black #17 | 51 | Black #50 |
| 19 | Black #18 | 52 | Black #51 |
| 20 | Black #19 | 53 | Black #52 |
| 21 | Black #20 | 54 | Black #53 |
| 22 | Black #21 | 55 | Black #54 |
| 23 | Black #22 | 56 | Black #55 |
| 24 | Black #23 | 57 | Black #56 |
| 25 | Black #24 | 58 | Black #57 |
| 26 | Black #25 | 59 | Black #58 |
| 27 | Black #26 | 60 | Black #59 |
| 28 | Black #27 | 61 | Black #60 |
| 29 | Black #28 | 62 | Black #61 |
| 30 | Black #29 | 63 | Black #62 |
| 31 | Black #30 | 64 | Black #63 |
| 32 | Black #31 | 65 | Black #64 |
| 33 | Black #32 | | |

*The white/black neutral conductor is used only on 18 and 16 AWG cables with conductor counts of 12 or greater.

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# Conductor Color Coding

## Multiconductor Cables

**Chart KX**

| No. | Color | No. | Color | No. | Color |
|---|---|---|---|---|---|
| 1 | Green/Yellow | 23 | Black #22 | 45 | Black #44 |
| 2 | Black #1 | 24 | Black #23 | 46 | Black #45 |
| 3 | Black #2 | 25 | Black #24 | 47 | Black #46 |
| 4 | Black #3 | 26 | Black #25 | 48 | Black #47 |
| 5 | Black #4 | 27 | Black #26 | 49 | Black #48 |
| 6 | Black #5 | 28 | Black #27 | 50 | Black #49 |
| 7 | Black #6 | 29 | Black #28 | 51 | Black #50 |
| 8 | Black #7 | 30 | Black #29 | 52 | Black #51 |
| 9 | Black #8 | 31 | Black #30 | 53 | Black #52 |
| 10 | Black #9 | 32 | Black #31 | 54 | Black #53 |
| 11 | Black #10 | 33 | Black #32 | 55 | Black #54 |
| 12 | Black #11 | 34 | Black #33 | 56 | Black #55 |
| 13 | Black #12 | 35 | Black #34 | 57 | Black #56 |
| 14 | Black #13 | 36 | Black #35 | 58 | Black #57 |
| 15 | Black #14 | 37 | Black #36 | 59 | Black #58 |
| 16 | Black #15 | 38 | Black #37 | 60 | Black #59 |
| 17 | Black #16 | 39 | Black #38 | 61 | Black #60 |
| 18 | Black #17 | 40 | Black #39 | 62 | Black #61 |
| 19 | Black #18 | 41 | Black #40 | 63 | Black #62 |
| 20 | Black #19 | 42 | Black #41 | 64 | Black #63 |
| 21 | Black #20 | 43 | Black #42 | 65 | Black #64 |
| 22 | Black #21 | 44 | Black #43 | | |

**Chart LW**

| No. | Color | No. | Color | No. | Color |
|---|---|---|---|---|---|
| 1 | Green/Yellow | 23 | Dk. Blue #22 | 45 | Dk. Blue #44 |
| 2 | Dk. Blue #1 | 24 | Dk. Blue #23 | 46 | Dk. Blue #45 |
| 3 | White/Blue* | 25 | Dk. Blue #24 | 47 | Dk. Blue #46 |
| 4 | Dk. Blue #3 | 26 | Dk. Blue #25 | 48 | Dk. Blue #47 |
| 5 | Dk. Blue #4 | 27 | Dk. Blue #26 | 49 | Dk. Blue #48 |
| 6 | Dk. Blue #5 | 28 | Dk. Blue #27 | 50 | Dk. Blue #49 |
| 7 | Dk. Blue #6 | 29 | Dk. Blue #28 | 51 | Dk. Blue #50 |
| 8 | Dk. Blue #7 | 30 | Dk. Blue #29 | 52 | Dk. Blue #51 |
| 9 | Dk. Blue #8 | 31 | Dk. Blue #30 | 53 | Dk. Blue #52 |
| 10 | Dk. Blue #9 | 32 | Dk. Blue #31 | 54 | Dk. Blue #53 |
| 11 | Dk. Blue #10 | 33 | Dk. Blue #32 | 55 | Dk. Blue #54 |
| 12 | Dk. Blue #11 | 34 | Dk. Blue #33 | 56 | Dk. Blue #55 |
| 13 | Dk. Blue #12 | 35 | Dk. Blue #34 | 57 | Dk. Blue #56 |
| 14 | Dk. Blue #13 | 36 | Dk. Blue #35 | 58 | Dk. Blue #57 |
| 15 | Dk. Blue #14 | 37 | Dk. Blue #36 | 59 | Dk. Blue #58 |
| 16 | Dk. Blue #15 | 38 | Dk. Blue #37 | 60 | Dk. Blue #59 |
| 17 | Dk. Blue #16 | 39 | Dk. Blue #38 | 61 | Dk. Blue #60 |
| 18 | Dk. Blue #17 | 40 | Dk. Blue #39 | 62 | Dk. Blue #61 |
| 19 | Dk. Blue #18 | 41 | Dk. Blue #40 | 63 | Dk. Blue #62 |
| 20 | Dk. Blue #19 | 42 | Dk. Blue #41 | 64 | Dk. Blue #63 |
| 21 | Dk. Blue #20 | 43 | Dk. Blue #42 | 65 | Dk. Blue #64 |
| 22 | Dk. Blue #21 | 44 | Dk. Blue #43 | | |

*The white/blue neutral conductor is used only on 18 and 16 AWG cables with conductor counts of 12 or greater.

**Chart LX**

| No. | Color |
|---|---|
| 1 | Green/Yellow |
| 2 | Dk. Blue #1 |
| 3 | Dk. Blue #2 |
| 4 | Dk. Blue #3 |
| 5 | Dk. Blue #4 |
| 6 | Dk. Blue #5 |
| 7 | Dk. Blue #6 |
| 8 | Dk. Blue #7 |
| 9 | Dk. Blue #8 |
| 10 | Dk. Blue #9 |
| 11 | Dk. Blue #10 |

**Chart O**

| No. | Color | No. | Color |
|---|---|---|---|
| 1 | Black | 9 | Violet |
| 2 | White | 10 | Slate |
| 3 | Red | 11 | Pink |
| 4 | Green | 12 | Tan |
| 5 | Brown | 13 | Black/White |
| 6 | Blue | 14 | Red/White |
| 7 | Orange | 15 | Green/White |
| 8 | Yellow | | |


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# Conductor Color Coding

| Chart P | |
|---|---|
| **No.** | **Color** |
| 1 | White |
| 2 | Black |
| 3 | Red |
| 4 | Green |
| 5 | Blue |
| 6 | Brown |
| 7 | Yellow |
| 8 | Orange |

| Chart R | | | |
|---|---|---|---|
| **No.** | **Base Color** | **1st Stripe** | **2nd Stripe** |
| 1 | Black | | |
| 2 | Red | | |
| 3 | Green | | |
| 4 | White | | |
| 5 | Brown | | |
| 6 | Blue | | |
| 7 | Orange | | |
| 8 | Yellow | | |
| 9 | Violet | | |
| 10 | Slate | | |
| 11 | Pink | | |
| 12 | Tan | | |
| 13 | Red | Green | |
| 14 | Red | Yellow | |
| 15 | Red | Black | |
| 16 | White | Black | |
| 17 | White | Red | |
| 18 | White | Green | |
| 19 | White | Yellow | |
| 20 | White | Blue | |
| 21 | White | Brown | |
| 22 | White | Orange | |
| 23 | White | Slate | |
| 24 | White | Violet | |
| 25 | White | Black | Red |
| 26 | White | Black | Green |
| 27 | White | Black | Yellow |
| 28 | White | Black | Blue |
| 29 | White | Black | Brown |
| 30 | White | Black | Orange |

| Chart RW | | | | | |
|---|---|---|---|---|---|
| **No.** | **Color** | **No.** | **Color** | **No.** | **Color** |
| 1 | Green/Yellow | 23 | Red #22 | 45 | Red #44 |
| 2 | Red #1 | 24 | Red #23 | 46 | Red #45 |
| 3 | White/Red* | 25 | Red #24 | 47 | Red #46 |
| 4 | Red #3 | 26 | Red #25 | 48 | Red #47 |
| 5 | Red #4 | 27 | Red #26 | 49 | Red #48 |
| 6 | Red #5 | 28 | Red #27 | 50 | Red #49 |
| 7 | Red #6 | 29 | Red #28 | 51 | Red #50 |
| 8 | Red #7 | 30 | Red #29 | 52 | Red #51 |
| 9 | Red #8 | 31 | Red #30 | 53 | Red #52 |
| 10 | Red #9 | 32 | Red #31 | 54 | Red #53 |
| 11 | Red #10 | 33 | Red #32 | 55 | Red #54 |
| 12 | Red #11 | 34 | Red #33 | 56 | Red #55 |
| 13 | Red #12 | 35 | Red #34 | 57 | Red #56 |
| 14 | Red #13 | 36 | Red #35 | 58 | Red #57 |
| 15 | Red #14 | 37 | Red #36 | 59 | Red #58 |
| 16 | Red #15 | 38 | Red #37 | 60 | Red #59 |
| 17 | Red #16 | 39 | Red #38 | 61 | Red #60 |
| 18 | Red #17 | 40 | Red #39 | 62 | Red #61 |
| 19 | Red #18 | 41 | Red #40 | 63 | Red #62 |
| 20 | Red #19 | 42 | Red #41 | 64 | Red #63 |
| 21 | Red #20 | 43 | Red #42 | 65 | Red #64 |
| 22 | Red #21 | 44 | Red #43 | | |

*The white/red neutral conductor is used only on 18 and 16 AWG cables with conductor counts of 12 or greater.

| Chart RX | |
|---|---|
| 1 | Green/Yellow |
| 2 | Red #1 |
| 3 | Red #2 |
| 4 | Red #3 |
| 5 | Red #4 |
| 6 | Red #5 |
| 7 | Red #6 |
| 8 | Red #7 |
| 9 | Red #8 |
| 10 | Red #9 |
| 11 | Red #10 |
| 12 | Red #11 |

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# Conductor Color Coding

## Hook-Up Wire

| Chart Z1 | |
|---|---|
| **No.** | **Color** |
| 1 | White |
| 2 | Black |
| 3 | Red |
| 4 | Green |
| 5 | Yellow |
| 6 | Blue |
| 7 | Brown |
| 8 | Orange |
| 9 | Slate |
| 10 | Violet |
| 11 | White/Black |
| 12 | White/Red |
| 13 | White/Green |
| 14 | White/Yellow |
| 15 | White/Blue |
| 16 | White/Brown |
| 17 | White/Orange |
| 18 | White/Slate |
| 19 | White/Violet |
| 28 | Green/Yellow |
| 29 | Yellow/Green |
| 30 | Pink |

| Chart Z2 | |
|---|---|
| **No.** | **Colors** |
| 0 | Black |
| 1 | Brown |
| 2 | Red |
| 3 | Orange |
| 4 | Yellow |
| 5 | Green |
| 6 | Blue |
| 7 | Violet |
| 8 | Slate |
| 9 | White |
| 45 | Yellow/Green |
| 54 | Green/Yellow |
| 90 | White/Black |
| 91 | White/Brown |
| 92 | White/Red |
| 93 | White/Orange |
| 94 | White/Yellow |
| 95 | White/Green |
| 96 | White/Blue |
| 97 | White/Violet |
| 98 | White/Slate |
| P | Pink |
| T | Tan |
| X | Clear |


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# Properties of Common Insulation and Jacket Materials

| Plastics | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Property** | **Low-Density PE** | **High-Density PE** | **Cellular PE** | **Nylon** | **PP** | **Cellular PP** | **PVC** | **Plenum PVC** | **PUR** |
| **Abrasion Resistance** | G | E | F | E | F-G | F-G | F-G | F-G | O |
| **Acid Resistance** | G-E | E | G-E | P-F | E | E | G-E | G | F |
| **Alcohol Resistance** | E | E | E | P | E | E | P-F | G | P-G |
| **Aliphatic Hydrocarbons Resistance** (Gasoline, Kerosene, etc.) | G-E | G-E | G | G | P-F | P | P | P | P-G |
| **Alkali Resistance** | G-E | E | G-E | E | E | E | G-E | G | F |
| **Aromatic Hydrocarbons Resistance** (Benzol, Toluol, etc.) | P | P | P | G | P-F | P | P-F | P-F | P-G |
| **Electrical Properties** | E | E | E | P | E | E | F-G | G | P |
| **Flame Resistance** | P | P | P | P | P | P | E | E | P |
| **Halogenated Hydrocarbons Resistance** (Degreaser Solvents) | G | G | G | G | P | P | P-F | P-F | P-G |
| **Heat Resistance** | G | E | G | E | E | E | G-E | G-E | G |
| **Low-Temperature Flexibility** | E | E | E | G | P | P | P-G | P-G | G |
| **Nuclear Radiation Resistance** | G-E | G-E | G | F-G | F | F | F | F | G |
| **Oil Resistance** | G-E | G-E | G | E | F | F | F | F | E |
| **Oxidation Resistance** | E | E | E | E | E | E | E | E | E |
| **Ozone Resistance** | E | E | E | E | E | E | E | E | E |
| **Underground Burial** | G | E | N/A | P | N/A | N/A | P-G | P | G |
| **Water Resistance** | E | E | E | P-F | E | E | F-G | F | P-G |
| **Weather, Sun Resistance** | E | E | E | E | E | E | G-E | G | G |

Ratings based on average performance of general-purpose compounds. Specific properties can usually be improved by selective compounding.

**P** Poor
**F** Fair
**G** Good
**E** Excellent
**O** Outstanding

| Fluoropolymers | | | | | | |
|---|---|---|---|---|---|---|
| **Property** | **FEP** | **PTFE** | **ETFE** | **ECTFE** | **PVDF** | **TPE** |
| **Abrasion Resistance** | E | O | E | E | E | F-G |
| **Acid Resistance** | E | E | E | E | G-E | G |
| **Alcohol Resistance** | E | E | E | E | E | G |
| **Aliphatic Hydrocarbons Resistance** (Gasoline, Kerosene, etc.) | E | E | E | E | E | P |
| **Alkali Resistance** | E | E | E | E | E | G-E |
| **Aromatic Hydrocarbons Resistance** (Benzol, Toluol, etc.) | E | E | E | E | G-E | P |
| **Electrical Properties** | E | E | E | E | G-E | E |
| **Flame Resistance** | O | E | G | E-O | E | F-G |
| **Halogenated Hydrocarbons Resistance** (Degreaser Solvents) | E | E | E | E | G | |
| **Heat Resistance** | O | O | E | O | O | E |
| **Low-Temperature Flexibility** | O | O | E | O | F | E |
| **Nuclear Radiation Resistance** | P-G | P | E | E | E | G |
| **Oil Resistance** | O | E-O | E | O | E | G |
| **Oxidation Resistance** | O | O | E | O | O | E |
| **Ozone Resistance** | E | O | E | E | E | E |
| **Underground Burial** | E | E | E | E | E | P |
| **Water Resistance** | E | E | E | E | E | G-E |
| **Weather, Sun Resistance** | O | O | E | O | E-O | E |

Ratings based on average performance of general-purpose compounds. Specific properties can usually be improved by selective compounding.

**P** Poor
**F** Fair
**G** Good
**E** Excellent
**O** Outstanding

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# Properties of Common Insulation and Jacket Materials

| Rubber | | | | |
|---|---|---|---|---|
| **Property** | **Rubber** | **Neoprene** | **EPDM** | **Silicone** |
| **Abrasion Resistance** | E | G–E | G | P |
| **Acid Resistance** | F–G | G | G–E | F–G |
| **Alcohol Resistance** | G | F | P | G |
| **Aliphatic Hydrocarbons Resistance** (Gasoline, Kerosene, etc.) | P | G | P | P–F |
| **Alkali Resistance** | F–G | G | G–E | F–G |
| **Aromatic Hydrocarbons Resistance** (Benzol, Toluol, etc.) | P | P-F | F | P |
| **Electrical Properties** | G | P | E | G |
| **Flame Resistance** | P | G | P | F–G |
| **Halogenated Hydrocarbons Resistance** (Degreaser Solvents) | P | P | P | P–G |
| **Heat Resistance** | F | G | E | O |
| **Low-Temperature Flexibility** | G | F–G | G- E | O |
| **Nuclear Radiation Resistance** | F | F–G | G | E |
| **Oil Resistance** | P | G | P | F–G |
| **Oxidation Resistance** | F | G | E | E |
| **Ozone Resistance** | P | G | E | O |
| **Water Resistance** | G | E | G–E | G-E |
| **Weather, Sun Resistance** | F | G | E | O |

Ratings based on average performance of general-purpose compounds. Specific properties can usually be improved by selective compounding.

**P** Poor
**F** Fair
**G** Good
**E** Excellent
**O** Outstanding

| Temperature Ranges of Insulation and Jacket Materials | | | | |
|---|---|---|---|---|
| **Material** | **Normal Low** | **Normal High** | **Special Low** | **Special High** |
| **ECTFE** | -70°C | 150°C | — | — |
| **EPDM** | -55°C | 105°C | — | 150°C |
| **ETFE** | -65°C | 150°C | — | — |
| **FEP** | -70°C | 200°C | — | — |
| **Neoprene** | -20°C | 60°C | -55°C | 90°C |
| **PE** | -60°C | 80°C | — | — |
| **Plenum PVC** | -20°C | 75°C | — | — |
| **PP** | -40°C | 105°C | — | — |
| **PTFE** | -70°C | 260°C | — | — |
| **PVC** | -20°C | 80°C | -55°C | 105°C |
| **PVDF** | -20°C | 125°C | -40°C | 150°/150°C |
| **Rubber** | -30°C | 60°C | -55°C | 75°C |
| **Silicone** | -80°C | 150°C | — | 200°C |
| **TPE** | -40°C | 105°C | -50°C | 125°C |


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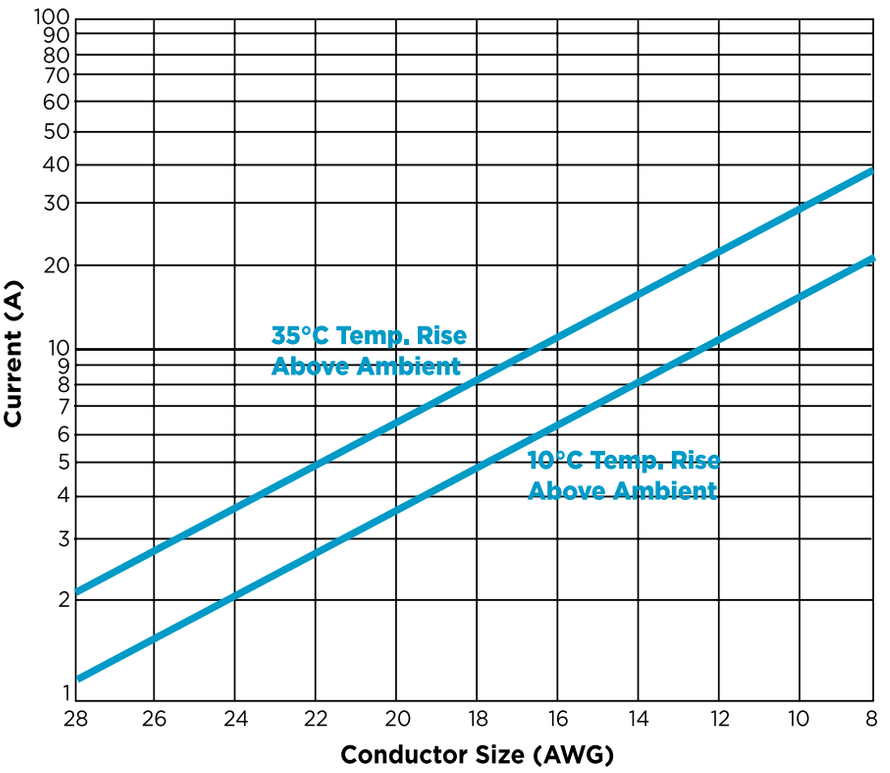
# Current Ratings for Alpha Cables

The maximum continuous current rating for a cable is limited by conductor size, number of conductors contained within the cable, maximum temperature rating of the cable, and environmental conditions such as ambient temperature and air flow. To use the current capacity chart, first determine conductor size, temperature rating, and number of conductors from the applicable product description for the cable of interest.

Next, find the current value on the chart for the proper temperature rating and conductor size. To calculate the maximum current rating/conductor, multiply the chart value by the appropriate conductor factor.

The chart assumes cable is surrounded by still air at an ambient temperature of 25°C. Current values are in RMS amperes and are valid for copper conductors only. For conditions other than specified, contact Alpha Technical Support at 1-800-52-ALPHA.

Note: Current ratings are intended as general guidelines for low-power electronic communications and control applications. Current ratings for power applications generally are set by regulatory agencies such as UL, CSA, NEC, and others.




| Current Ratings | |
|---|---|
| **No. of Conductors*** | **Factor** |
| 1 | 1.6 |
| 2 to 3 | 1.0 |
| 4 to 5 | 0.8 |
| 6 to 15 | 0.7 |
| 16 to 30 | 0.5 |

*Do not count shields unless used as conductor.

# Signal Interference

When a particular installation is prone to EMI/RFI/ESI interference from either internal or external sources, some form of cable shielding will be required. The types of interference—or noise—cables are exposed to can determine the type of cable shielding required. There are basically four types of noise which will affect the wiring or cabling of an instrument or control circuit: static, magnetic, common mode, and crosstalk noise.

## Static Noise

This refers to signal distortion due to the electrical field radiated by a voltage source, which has coupled into the signal-bearing circuit. Simple shielding of the full circuit is a typical means of mitigating this electrostatic type of interference. Foil shields, which offer 100% shielding efficiency, have proven most effective against this type of interference. It is critical that the shield be continued to, and completely encompass, the transmitting and receiving ends of the circuit if high levels of noise reduction are required. Effective grounding of the shield is also required; "floating" or non-grounded shields only partially reduce the effects of noise.

## Magnetic Noise

Magnetic fields, radiated by power wiring found in large AC motors, transformers and knife switches, can set up current flows in opposition to the instrument circuit field. The result is the superimposing of a noise current on the signal current. The simplest and best means of mitigating the effects of such magnetic interference is by simple twisting of the cable elements.

## Common Mode Noise

Common mode interference is the result of currents flowing between different potential grounds located at various points within a system. Receivers with very high common mode rejection ratios minimize this type of interference.

## Crosstalk

This refers to the superimposing of either pulsed DC or standard AC signals carried on one wire pair to another wire pair in close proximity. Although pair twist tends to reduce crosstalk levels, the most effective means of mitigation is individual cable pair shielding coupled to pair twist.

## Noise Levels

Once it has been determined that noise currents are going to pose a system problem, it becomes necessary to determine if the noise is of a low, medium or high level. The table below gives general guidelines as to the areas which are subject to these generalized noise levels:

### Noise Level Chart

| Noise Level Sources | Noise Sources | Typical Locations |
|---|---|---|
| **High** | Electrolytic processes<br>Large motors, generators, transformers<br>Induction heating<br>Relay controls<br>Power Lines | Heavy processing plants such as steel mills and foundries |
| **Medium** | Medium-size motors, generators, transformers<br>Relay controls | Average manufacturing plants |
| **Low** | Small motors, generators, transformers | Storage areas, labs, offices and light assembly operations |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# Shielding

## Shielding Performance

The shielding of electronic interconnect cables can play a critical role in overall system performance. System configuration, type of signals transmitted and proximity to noise generating sources all must be considered. These factors plus the type of interference, whether electromagnetic, electrostatic discharge (ESD) or radio frequency, will determine the necessity and type of shielding required. Alpha's Xtra-Guard cables are available in two shielded constructions providing protection for the majority of installation needs.

## Shield Coverage: Braided Shield

The effectiveness of a braided shield depends upon the percent coverage afforded by the shield. Leakage in a braided shield is due to air spaces which exist between the weave. The following equation can be used to determine the percent coverage of a braided shield.

$$\text{Tan } a = \frac{2\pi\,(D+2d)P}{C}$$

**where**

C = Number of carriers
D = Diameter under shield, inches
d = Diameter of one strand, inches
P = Picks per inch
a = Shield angle, degrees
K = Percent coverage, where

$$K = (2F - F^2) \times 100$$

**and**

$$F = \frac{NdP}{\text{Sin } a}$$

N = Number of strands per carrier

## Shield Resistance

The D.C. resistance for braided shields can be calculated using the following equation:

$$R = \frac{dR}{\text{Cos } a\,(NC)}$$

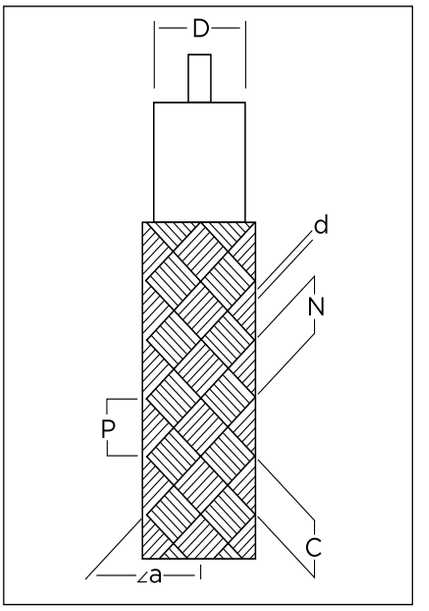
**where**

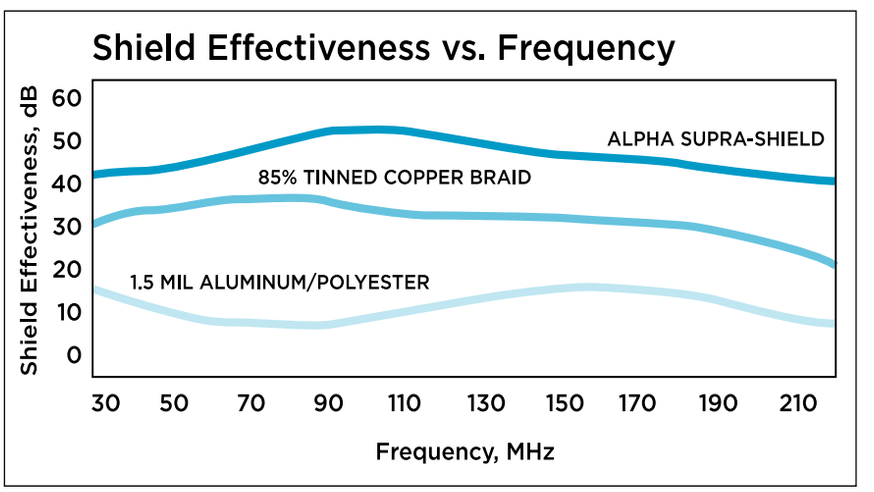
R = D.C. resistance, ohms/ unit length

dR = D.C. resistance of 1 strand end, ohms/unit length

N = Number of strand ends in one carrier

C = Number of carriers



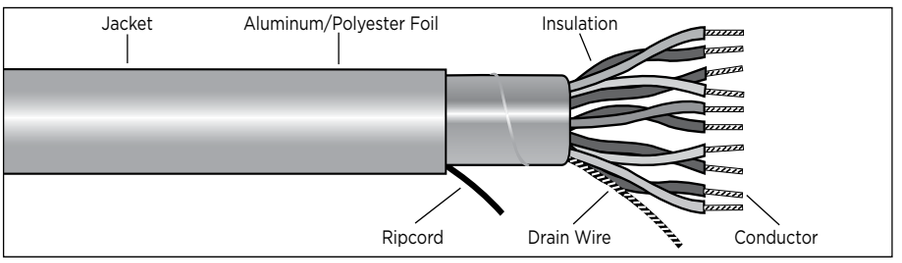



# Xtra-Guard Shielding Options

## Alpha Aluminum/Polyester Foil Shielding

- **Lightweight shielding**
- **Low cost**
- **Ease of termination with use of stranded tinned copper drain wire**
- **High-frequency interference**
- **100% coverage over the core of cable conductors**

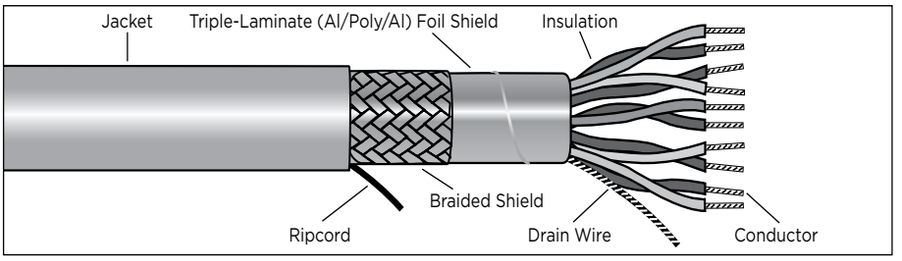
Alpha aluminum/polyester foil shielding consists of an aluminum polyester tape, foil side facing inward, with a 25% overlap and in contact with a stranded, tinned copper drain wire equal in size to insulated cable conductors.




## Alpha Supra-Shield® (Foil/Braid) Shielding

- **Ease of termination with use of stranded tinned copper drain wire**
- **High-frequency interference**
- **High physical strength**

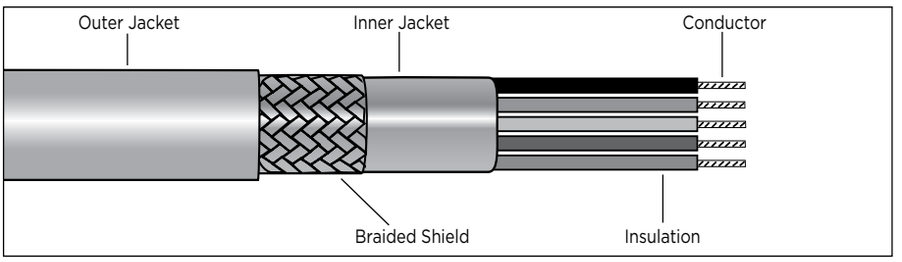
Alpha Supra-Shield® (foil/braid) shielding system consists of a unique triple-laminate tape. An aluminum/polyester/aluminum tape is bonded in one layer with a 25% overlap and in contact with a stranded tinned copper drain wire equal in size to the insulated cable conductors. A 70% coverage tinned copper braid shield is applied overall.




## Xtra-Guard Flexible Cable Braid Shielding

- **EMI/RFI resistance in power, control and data applications**
- **Continuous shield continuity in flexing applications**
- **High physical strength**

Xtra-Guard flexible cables have specific shielding requirements resulting from the stresses of motion and flexing. Where foil shields will tear and lose continuity, Xtra-Guard flexible cables use a flexible, 85% coverage, tinned copper braid with a double jacket isolating the shield from the cable's inner core.





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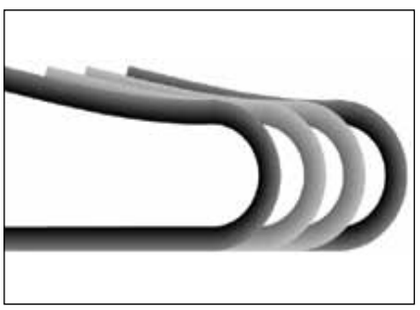
# Common Flexing Applications

In applying a cable to a flexing application, you must consider the four types of flexing that may be encounter: Rolling Flex, Bending or Tic-Toc Flex, Torsional Flex, and Variable/Random Flex.

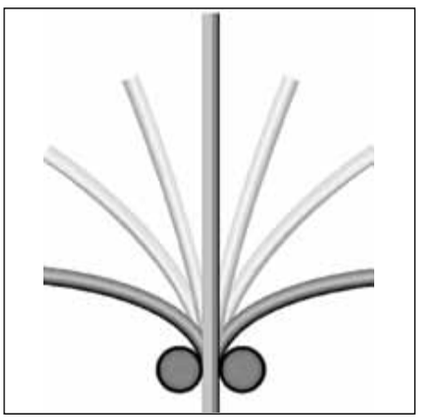
### Rolling Flex

Rolling flex applications include linear motion associated with cable track systems or single axis slide apparatus. The most common type of rolling flex includes cable track systems where the cables are “managed” within an enclosed rolling motion carrier.



### Bending Flex

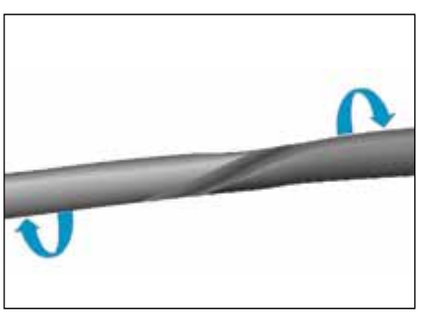
Bending or tick toc flex occurs when a cable is subjected to repetitive motion at a fixed point in the axis of the cable. The



bending moment of the cable is subjected to stress and fatigue from lateral motion in these applications.

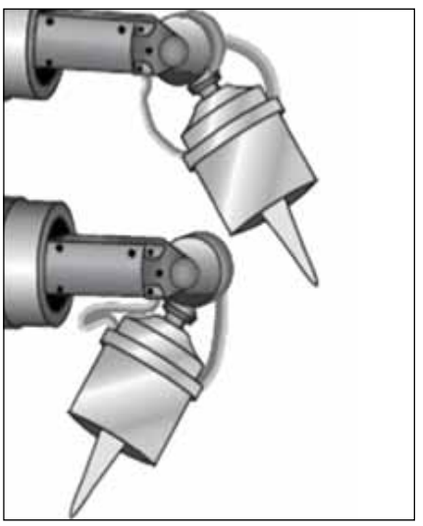
### Torsional Flex

Torsional flexing applications occur when the cable is subjected to twisting forces, usually in a circular motion around the central axis of the cable. Robotic and pick/place apparatus are the most common applications subjecting cables to torsional stress.



### Variable Flex

Variable flexing applications are random applications, which may occur in any number of flexing environments. Examples include articulation found in robotics, automated equipment, and hand-held devices.



Alpha Wire offers flexible cables products designed specifically for each of these types of flexure. In addition, Alpha’s engineering staff can assist the user in the design of application specific cables to suit specific needs, or in the specification of an existing Alpha Wire product. A close examination of the flex requirements is an important first step in selecting product.

## Technical Data

**Cable Flex Test Capabilities Matrix**

| Flex Test Type | Applicable Standard | Travel Speed Or Cyclic Rate | Length Of Travel | Test Specimen | Bend Radius Or Mandrel Diameter | Sample Population | Acceptance Criteria |
|---|---|---|---|---|---|---|---|
| Rolling | Cable Track Alpha Rolling Flex | 12.5 ft/s; 17 Cycles Per Minute | 14 ft | 28 ft | 4.5” to 6.69” | 1 Test Specimen Per Construction | Cycles to Failure |
| Bending/ Tic-Toc | MIL-C-13777G Section 3.7.2 and Section 4.5.4.1 | 30 Cycles Per Minute | 42”@ ±90 degrees | 42” | 3/8” to 5/8” | 3 Test Specimens Per Construction | Pass/Fail @ 1000 Cycles |
| Torsional | MIL-C-13777G Section 3.7.2 and Section 4.5.4.1 | 30 Cycles Per Minute | 22”@ ±90 degrees | 66” | 3”, 4.5”, 6”, 9” | 3 Test Specimens Per Construction | Pass/Fail @ 3000 Cycles |

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# Common Flexing Applications

| Cable Family | Part No./Cable Description | Shield | Bend Radius | Cable Diameter | Bend Ratio: Radius/ Diameter | Failure | Cycle Count | Test Status |
|---|---|---|---|---|---|---|---|---|
| **Xtra-Guard** Continuous Flex Control | **85025** 20 AWG x 25 Conductors | No | 6.69 | 0.77 | 8.69:1 | No | 13,800,000 | Complete |
| **Xtra•Guard** Continuous Flex Control | **85807CY** 18AWG x 7 Conductors | Yes | 6.69 | 0.61 | 10.97:1 | No | 13,800,000 | Test Complete |
| **Xtra-Guard** Continuous Flex Control | **85618** 16AWG x 18 Conductors | No | 6.69 | 0.78 | 8.58:1 | No | 13,800,000 | Test Complete |
| **Xtra-Guard** Continuous Flex Control | **85404CY** 14AWG x 4 Conductors | Yes | 6.69 | 0.64 | 10.45:1 | No | 13,800,000 | Test Complete |
| **Xtra-Guard** Continuous Flex Data | **86714CY** 22 AWG x 7 Pairs | Yes | 4.5 | 0.51 | 8.82:1 | No | 14,500,000 | Complete |
| **Xtra-Guard** Continuous Flex Data | **86325CY** 22 AWG x 25 Conductors | Yes | 4.5 | 0.41 | 10.98:1 | No | 6,700,000 | Complete |
| **Series F** | **F16017RW** 16 AWG x 17 Conductors | No | 6.69 | 0.67 | 9.99:1 | No | 5,698,000 | Complete |
| **Series F** | **F16025RW** 16 AWG x 25 Conductors | No | 6.69 | 0.79 | 8.47:1 | No | 5,698,000 | Complete |
| **Series F** | **F16022RW** 16 AWG x 22 Conductors | No | 6.69 | 0.73 | 9.16:1 | No | 5,698,000 | Complete |
| **Series F** | **F16012RW** 16 AWG x 12 Conductors | No | 4.5 | 0.58 | 7.76:1 | No | 7,000,000 | Complete |
| **Series F** | **F16033RW** 16 AWG x 33 Conductors | No | 6.69 | 0.89 | 7.52:1 | No | 7,000,000 | Complete |
| **Series F** | **F16017RW** 16 AWG x 17 Conductors | No | 6.69 | 0.67 | 9.99:1 | No | 3,000,000 | Complete |
| **Series F** | **F16033RW** 16 AWG x 33 Conductors | No | 6.69 | 0.89 | 7.52:1 | No | 3,000,000 | Complete |
| **Series F** | **F16022RW** 16 AWG x 22 Conductors | No | 6.69 | 0.73 | 9.16:1 | No | 3,000,000 | 3,000,000 |
| **Series F** | **F08004KW** 8 AWG x 4 Conductors | No | 6.69 | 0.74 | 9.04:1 | No | 7,500,000 | Track Failed |
| **Series M** | **M16122RW** 16 AWG x 22 Conductors | No | 4.5 | 0.58 | 7.76:1 | No | 1,594,000 | Complete |
| **Series M** | **M16133RW** 16 AWG x 33 Conductors | No | 4.5 | 0.89 | 5.06:1 | Yes | 1,594,000 | Complete |


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# Agency Approvals

## UL/NEC • cUL/CEC • CSA/CEC Classification

**UL Standard 444/CSA C22.2**: Multi-National Harmonized Communication Cable Standards CSA C22.2 No. 214-94 and UL 444.

**UL (Underwriters Laboratories Inc.):** Develops standards and test procedures for products, materials, components, assemblies, tool, and equipment. It mainly deals with product safety in the United States.

**NEC (National Electrical Code):** A United States standard for the safe installation of electrical wiring equipment.

**AWM (Appliance Wiring Material):** Intended for the internal wiring of factory-assembled products.

**CSA (Canadian Standards Association International):** Tests products for compliant to national and international standards and issues certification marks for qualified products

**CEC (Canadian Electrical Code):** A standard published by the CSA that pertains to the installation and maintenance of electrical equipment in Canada.

**cUL:** A notation indicating the UL has listed the product under the applicable CSA standard.

**cRU:** A notation indicating the UL has recognized the product under the applicable CSA standard.

**CE (Conformité Européenne):** A European Economic Community approval indicating that the product complies with LVD/73/23.

**NEC Article 725 Types CL2, CL3, PLTC/CL3, (Class 2 & 3 cables)**

| Plenum | Riser | Commercial | Residential |
|---|---|---|---|
| CL2P | CL2R | CL2 | CL2X* |
| CL3P | CL3R | CL3 | CL3X* |
| (none) | (none) | PLTC* | (none) |

**NEC Article 760 Type FPL (Power-Limited, Fire Protective Signaling Circuit Cable)**

| Plenum | Riser | Commercial | Residential |
|---|---|---|---|
| FPLP | FPLR | FPL | (none) |

**NEC Article 800 Type CM (Communications)**

| Plenum | Riser | Commercial | Residential |
|---|---|---|---|
| CMP | CMR | CMG, CM | CMX* |

**NEC Article 336 Type TC (Tray Cable)**

**NEC Article 690 Type PV (Photovoltaic Wire)**

**NEC Article 820 Type CATV (Community Antenna Television and Radio Distribution System)**

| Plenum | Riser | Commercial | Residential |
|---|---|---|---|
| CATVP | CATVR | CATV | CATVX** |

*Cable diameter must be less than 0.250" (6.35 mm)

**Cable diameter must be less than 0.375" (9.53 mm)

## CSA International

**CSA** is a nonprofit, independent organization which operates a nationally recognized testing laboratory (NRTL) for electrical and electronic materials and equipment. Alpha Wire Company offers the following types of Canadian CSA certifications on a wide variety of both wire and cable products.

**AWM** (Appliance Wiring Material) is manufactured in accordance with CSA Standard C22.2 No. 210. These products are intended for the internal wiring of electrical and electronic equipment and interconnecting wiring between equipment. All of these wires and cables must pass one of the following flame tests in order to comply with CSA Certification requirements.

**FT1 Vertical Flame Test** per CSA C22.2 No. 3 specifies that finished cable shall not propagate a flame or continue to burn for more than one minute after five 15-second applications of the test flame. There is an interval of 15 seconds between flame applications.

**FT4 Vertical Flame Test** per CSA C22.2 No. 3 for cables in cable trays. This test is similar to, but more severe than, the UL Standard 1581 Vertical Tray flame test. The UL 1581 has its burner at 0° from the horizontal while the FT4 has its burner mounted at 20° from the horizontal with its burner parts facing up. The allowable char length is only 1.5 m (58"), while UL 1581 allows damage up to a maximum of 8 ft (2.4 m).

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# Agency Approvals

## NEC Article 800 (Communications) UL/NEC – CSA/CEC Comparable Flame Test Designations

**CMP CSA FT6/UL910 Horizontal Flame and Smoke Test 300,000 BTU**

Horizontal flame and smoke test in accordance with ANSI/NFPA Standard 262-1985 (UL 910). The maximum flame spread shall be 1.50 m (58”). The smoke density shall be 0.5 at peak optical density and 0.15 at maximum average optical density. This test does not investigate toxicity, combustion, or decomposition.

**CMR UL 1666 Vertical Flame Test 527,500 BTU**

A large scale fire test for determining values of flame propagation height for electrical and optical-fiber cables that are intended for installation vertically in shafts. The flame propagation height is not to equal or exceed 12 ft (3.6 m). The temperature of any thermocouple at the 12 ft (3.5 m) height is not to exceed 850°F (454°C). The purpose of the test is to determine whether the flame propagation characteristics of these “riser” cables are in accordance with the NEC. This test does not investigate toxicity, combustion or decomposition.

**CMG CSA FT4 Vertical Flame Test 70,000 BTU**

This test is more stringent than the UL 1685/UL 1581 (Vertical Tray) in so much as the cable samples must be greater than 13 mm in diameter, if not the cables are grouped in bundles of at least three to obtain an overall group diameter of 13 mm. In addition, the burner is set at a 20° angle from the horizon with the burner ports facing up. This test has a maximum char height of 1.5 m (59”) measured from the lower edge of the burner.

**CM UL 1581 Section 1160 (Vertical Tray) Flame Test 2500 BTU**

This test consist of an essentially flat metal plate burner mounted 0 degrees from the horizon. This test does not distinguish any specific cable size or diameter. This test has a maximum flame and char height of 78” measured from the burner.

**CMX CSA FT-1/UL 1581 Section 1080 (VW-1) Vertical Flame Test 1700 BTU**

A vertical finished cable shall not flame longer than 60 seconds following any of five 15 second applications of the specified nominal 125-mm premixed 500-W test flame (1700 BTU/hr.), the period between applications being (1) 15 seconds if the cable flaming ceases within 15 seconds or less time or (2) the duration of the cable flaming if the cable flame persists longer than 15 seconds. The cable shall not ignite combustible materials in the vicinity or damage more than 25% of the indicator flag during, between, or after the five applications of the test flame. The CSA FT-1 test is similar; however, it refers to CSA C22.2 No. 3, Paragraph 4.11.1 for flame test procedures.

The descriptions for the above flame tests are paraphrased from the applicable documents. For specific information, please consult the appropriate agency documentation.


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# Military Specifications

| Military Specifications | |
|---|---|
| **MIL-DTL-17** | RG cables-polyethylene and PTFE cores. |
| **MIL-W-76** | General purpose hook-up wire for internal wiring of electronic equipment. Temperature range -40°C to +80°C vinyl, Types LW, MH, HW for service up to 2500 volts, polyethylene Type HF to 1000 volts. |
| **MIL-W-3861** | Copper conductors (uninsulated). Solid, bunches, concentric and rope constructions. Replaced by QQ-W-343 then superseded by A-A-59551. |
| **MIL-DTL-16878** | Military specification, covering unshielded wire for hook-up and lead wiring of electronic and electrical components and equipment. Formerly MIL-DTL-16878. |
| **MIL-DTL-22759** | PTFE insulated hook-up wire MIL-DTL-22759. |
| **MIL-DTL-27500** | 600 volt aircraft wire with PTFE insulation. Formerly MIL-DTL-27500. |
| **QQ-W-343** | Copper conductors (uninsulated). Solid, bunches, concentric and rope constructions. Superseded by A-A-59551. |
| **AMS-DTL-23053** | General specification for heat shrinkable insulation sleeving. Formerly MIL-DTL-23053. |
| **MIL-L-631** | Non-rigid synthetic resin composition electrical insulation. May be in the form of film, sheets, tapes, or tubing. |
| **MIL-I-3190** | General specification for coated, flexible insulation sleeving. |
| **A-A 59551** | Wire, electrical, copper (uninsulated). |
| **A-A 59569** | Braid, wire (copper, tin-coated, silver-plated, or nickel coated, tubular or flat). |
| **A-A 52080** | Tape, lacing and tying, nylon. |
| **A-A 52081** | Tape, lacing and tying, polyester. |
| **A-A-52083** | Tape, lacing and tying, glass. |
| **A-A-52084** | Tape, lacing and tying, aramid. |
| **A-A-59602** | Tube, spiral wrap, polyethylene, PTFE and polyamide. |
| **A-A-59301** | Sleeving, textile, braided, synthetic polymer, -55°C to +105°C. |
| **MIL-DTL-713** | Twine, fibrous: impregnated, lacing and tying. |
| **FED-STD-191** | Textile test methods. |
| **MIL-Y-1140** | Yarn, cord, sleeving, cloth and tape-glass. |
| **NEMA HP-3** | PTFE insulated hook-up wire. |

### Military Cross Reference Index to Alpha Tubing and Sleeving Products

| Heat-Shink Tubing | |
|---|---|
| **MIL-SPEC** | **Alpha Tubing Family** |
| AMS-DTL-23053/1, CL 1,2 | FIT- 600, ST-700 |
| AMS-DTL-23053/2, CL 2, CL2 Except Longitudinal Shrinkage | Special Order |
| AMS-DTL-23053/4, CL 1, 2 & 3 | FIT-300, FIT-750, FIT-321, ST-300, ST-302, ST-303 |
| AMS-DTL-23053/5, CL , 2 & 3, CL1 Overexpanded | FIT-221, FIT-221B, FIT-221V, FIT-421, FIT-321V (except dimensions), FIT-421, ST-421 |
| AMS-DTL-23053/6, CL 1 & 2 | FIT-295 |
| AMS-DTL-23053/8 | FIT-350 |
| AMS-DTL-23053/11, CL 1 | FIT-400 |
| AMS-DTL-23053/12, CL 3 | FIT-500 |
| AMS-DTL-23053/12, CL 5 | Special Order |
| AMS-DTL-23053/13 | FIT-650, ST-650 |
| AMS-DTL-23053/18, CL | FIT-CLEAR |
| AMS-DTL-23053/15, CL1 & 2 | SPC, SPCM |

| Extruded Tubing | |
|---|---|
| **MIL-SPEC** | **Alpha Tubing Family** |
| MIL-I-631D | PVC-105 |

| Coated-Fiberglass Sleeving | |
|---|---|
| **MIL-SPEC** | **Alpha Sleeving Family** |
| MIL-I-3190/3 Type C | AF-155 |
| MIL-I-3190/2 Type B | PIF-130 |
| MIL-I-3190/2 Type B | MPF-130 |
| MIL-I-3190/6 Type D | PIF-200 |
| MIL-Y-1140 | PIF-240 |

| Spirally Cut Tubing | |
|---|---|
| **MIL-SPEC** | **Part No.** |
| A-A-59602, Type 1 | SW-1 to SW-6 |
| A-A-59602, Type 2 | SW-20 to SW-25 |
| A-A-59602, Type 3 | SW-30 to SW-35 |
| A-A-59602, Type 1 | SW-40 to SW-45 |

# Military Specifications

## Military Cross Reference Index to Alpha Tubing and Sleeving Products

| Expandable Self-Fitting Sleeving | |
|---|---|
| **MIL-SPEC** | **Alpha Sleeving Family** |
| A-A-59301 | XS-200N |

| Lacing Cords and Tapes | |
|---|---|
| **MIL-SPEC** | **Part No.** |
| A-A-52080 Type 3, Finish C, FED STD 191 | LC-132 |
| A-A-52080 Type 4, Finish B, FED STD 191 | LC-134 |
| A-A-52080 Type 3, Finish B, FED STD 191 | LC-136 |
| A-A-52080 Type 3, Finish C, FED STD 191 | LC-140 |
| A-A-52080 Type 3, Finish E, FED STD 191 | LC-143 |
| A-A-52080 Type 5, Finish A, FED STD 191 | 801530 |
| A-A-52080 Type 5, Finish B, FED STD 191 | 801536 |
| A-A-52080 Type 4, Finish B, FED STD 191 | 802534 |
| A-A-52080 Type 2, Finish C, FED STD 191 | 805032 |
| A-A-52080 Type 3, Finish B, FED STD 191 | 805036 |
| A-A-52080 Type 3, Finish C, FED STD 191 | 805040 |
| A-A-52081 Type 3, Finish B, FED STD 191 | LC-162 |
| A-A-52081 Type 5, Finish C, FED STD 191 | 801566 |
| A-A-52081 Type 4, Finish C, FED STD 191 | 802566 |
| A-A-52081 Type 3, Finish C, FED STD 191 | 805058 |
| A-A-52081 Type 3, Finish A, FED STD 191 | 805060 |
| A-A-52081 Type 3, Finish B, FED STD 191 | 805062 |
| A-A-52081 Type 3, Finish C, FED STD 191 | 805066 |
| A-A-52083 Type 3, Finish G, FED STD 191 | 807510 |


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# FIT Heat-Shrink Tubing

## Competitive Cross Reference

| Competitive Cross Reference | | | | | | |
|---|---|---|---|---|---|---|
| **FIT Series** | **Sumitomo Electric** | **Tyco Electronics/ Raychem** | **3M** | **DSG-Canusa** | **Panduit** | **Insultab** |
| 105 | F2 | — | — | — | HSTTP | HS-105 |
| 221 | A2, B2 | RNF-100 | FP-301 | CPX 100 | HSTT, HSTTM | HS-101 |
| 221B | A2, B2 | RNF-100 | FP-301 | CPX 100 | HSTT | HS-101 |
| 221V | B2 | VERSAFIT 2:1 | FP-301VW | CPX 876 | HSTTV | HS-101 |
| 260 | B2(Y/G) | DCPT | SFTW-202 GYS | CPX 201 | — | — |
| 295 | BB | CRN | SR-350 | CHM 140 | — | HS-101SR |
| 300 | W5DL | SCL | MW | — | — | HS-101MV |
| 321 | W3B2 | DWP-125 | EPS-300 | CPA 100 | HSTTA | HS-101MV3:1 |
| 321V | B2(3X) | RNF-3000, VERSAFIT 3X | SFTW-303 | CPX 300 | — | HS-101-3X |
| 350 | K | RW-125 | Kynar | DERAY KY 175 | — | HSK-600 |
| 400 | — | — | — | — | — | — |
| 421 | W3B2(4X) | RP-4800 | EPS-400 | — | SH277 | HS-101MV4:1 |
| 500 | — | — | — | — | — | — |
| 600 | R10 | NT | NST | — | — | HSN-100 |
| 621 | BCH(6X) | HRNF | — | — | — | — |
| 650 | FE3 | VITON | VTN200 | — | — | HS-VTN |
| 700 | — | SST | ITCS, HDT | CFW-D | — | — |
| 750 | O2B2 | TAT-125 | EPS-200 | CPA 100 | — | HS-101MV2:1 |
| CLEAR | K2 | RW-175 | Kynar | DERAY KYF 190 | — | — |
| CAP | — | 101 A0xx | — | — | — | — |
| CRIMP | — | D406 | MH18, MH14, MH10 | — | — | — |
| FABRIC | — | HFT5000 | — | — | — | — |
| FLEX | — | SRFR | — | — | — | — |
| SLV | — | SO1xx-R/ SO2-xx-R | — | — | — | — |

# Xtra-Guard Flex Cables

## Competitive Cross Reference

**Lapp to Alpha**

| Lapp | Alpha | Lapp | Alpha | Lapp | Alpha | Lapp | Alpha |
|---|---|---|---|---|---|---|---|
| 28110 | 87007 | 601604CY | 65604CY | 602204TP | 86704CY | 602625 | 86125 |
| 28160 | 87304 | 601605 | 65605 | 602205 | 86305 | 602625S | 86125CY |
| 28171 | 87403 | 601605CY | 65605CY | 602205TP | 86705CY | 602802 | 86002 |
| 28172 | 87404 | 601607 | 65607 | 602206TP | 86706CY | 602802S | 86002CY |
| 28174 | 87407 | 601607CY | 65607CY | 602207 | 86307 | 602803 | 86003 |
| 28181 | 87503 | 601609 | 65609 | 602208TP | 86708CY | 602803S | 86003CY |
| 28182 | 87504 | 601612 | 65612 | 602210TP | 86710CY | 602804 | 86004 |
| 28184 | 87603 | 601612CY | 65612CY | 602214TP | 86714CY | 602804S | 86004CY |
| 600204 | 65304 | 601618 | 65618 | 602225 | 86325 | 602805 | 86005 |
| 600204CY | 65304CY | 601618CY | 65618CY | 602401TP | 86601CY | 602805S | 86005CY |
| 600205 | 65305 | 601625 | 65625 | 602402 | 86202 | 602807 | 86007 |
| 600404 | 65504 | 601625CY | 65625CY | 602402S | 86202CY | 602807S | 86007CY |
| 600405 | 65505 | 601641 | 65641 | 602402TP | 86602CY | 602812S | 86012CY |
| 600604 | 65704 | 601650 | 65650 | 602403 | 86203 | 602818S | 86018CY |
| 600604CY | 65704CY | 601802 | 65802 | 602403S | 86203CY | 602825 | 86025 |
| 600605 | 65705 | 601803 | 65803 | 602403TP | 86603CY | 602825S | 86025CY |
| 600804 | 65904 | 601803CY | 65803CY | 602404 | 86204 | 811442 | 87003 |
| 600804CY | 65904CY | 601804 | 65804 | 602404S | 86204CY | 811443 | 87004 |
| 600805 | 65905 | 601804CY | 65804CY | 602404TP | 86604CY | 890204 | 85304 |
| 601003 | 65103 | 601805 | 65805 | 602405 | 86205 | 890204CY | 85304CY |
| 601003CY | 65103CY | 601805CY | 65805CY | 602405S | 86205CY | 890404 | 85504 |
| 601004 | 65104 | 601807 | 65807 | 602405TP | 86605CY | 890404CY | 85504CY |
| 601004CY | 65104CY | 601807CY | 65807CY | 602406TP | 86606CY | 890604 | 85704 |
| 601005 | 65105 | 601809 | 65809 | 602407 | 86207 | 890604CY | 85704CY |
| 601005CY | 65105CY | 601812 | 65812 | 602407S | 86207CY | 890804 | 85904 |
| 601007CY | 65107CY | 601812CY | 65812CY | 602408TP | 86608CY | 890804CY | 85904CY |
| 601203 | 65203 | 601818 | 65818 | 602410TP | 86610CY | 891004 | 85104 |
| 601203CY | 65203CY | 601818CY | 65818CY | 602412S | 86212CY | 891004CY | 85104CY |
| 601204 | 65204 | 601825 | 65825 | 602414TP | 86614CY | 891007 | 85107 |
| 601204CY | 65204CY | 601825CY | 65825CY | 602418S | 86218CY | 891007CY | 85107CY |
| 601205 | 65205 | 601834 | 65834 | 602425 | 86225 | 891204 | 85204 |
| 601205CY | 65205CY | 601841 | 65841 | 602425S | 86225CY | 891204CY | 85204CY |
| 601207 | 65207 | 601850 | 65850 | 602601TP | 86501CY | 891207 | 85207 |
| 601402 | 65402 | 602002 | 65002 | 602602 | 86102 | 891207CY | 85207CY |
| 601403 | 65403 | 602003 | 65003 | 602602S | 86102CY | 891404 | 85404 |
| 601403CY | 65403CY | 602003CY | 65003CY | 602602TP | 86502CY | 891404CY | 85404CY |
| 601404 | 65404 | 602004 | 65004 | 602603 | 86103 | 891407 | 85407 |
| 601404CY | 65404CY | 602005 | 65005 | 602603S | 86103CY | 891407CY | 85407CY |
| 601405 | 65405 | 602007 | 65007 | 602603TP | 86503CY | 891603 | 85603 |
| 601405CY | 65405CY | 602007CY | 65007CY | 602604 | 86104 | 891603CY | 85603CY |
| 601407 | 65407 | 602009 | 65009 | 602604S | 86104CY | 891604 | 85604 |
| 601407CY | 65407CY | 602012 | 65012 | 602604TP | 86504CY | 891604CY | 85604CY |
| 601409 | 65409 | 602012CY | 65012CY | 602605 | 86105 | 891605 | 85605 |
| 601412 | 65412 | 602018 | 65018 | 602605S | 86105CY | 891605CY | 85605CY |
| 601412CY | 65412CY | 602025 | 65025 | 602605TP | 86505CY | 891607 | 85607 |
| 601418 | 65418 | 602025CY | 65025CY | 602606TP | 86506CY | 891607CY | 85607CY |
| 601418CY | 65418CY | 602201TP | 86701CY | 602607 | 86107 | 891612 | 85612 |
| 601425 | 65425 | 602202 | 86302 | 602607S | 86107CY | 891612CY | 85612CY |
| 601602 | 65602 | 602202TP | 86702CY | 602608TP | 86508CY | 891618 | 85618 |
| 601603 | 65603 | 602203 | 86303 | 602610TP | 86510CY | 891618CY | 85618CY |
| 601603CY | 65603CY | 602203TP | 86703CY | 602612S | 86112CY | 891625 | 85625 |
| 601604 | 65604 | 602204 | 86304 | 602618S | 86118CY | 891625CY | 85625CY |



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## Competitive Cross Reference

**Lapp to Alpha**

| Lapp | Alpha | Lapp | Alpha | Lapp | Alpha | Lapp | Alpha |
|---|---|---|---|---|---|---|---|
| 891634 | 85634 | 891807 | 85807 | 891834 | 85834 | 892010CY | 85010CY |
| 891634CY | 85634CY | 891807CY | 85807CY | 892003 | 85003 | 892012 | 85012 |
| 891650 | 85650 | 891812 | 85812 | 892003CY | 85003CY | 892012CY | 85012CY |
| 891803 | 85803 | 891812CY | 85812CY | 892004 | 85004 | 892018 | 85018 |
| 891803CY | 85803CY | 891815 | 85815 | 892004CY | 85004CY | 892018CY | 85018CY |
| 891804 | 85804 | 891818 | 85818 | 892005 | 85005 | 892025 | 85025 |
| 891804CY | 85804CY | 891818CY | 85818CY | 892005CY | 85005CY | 892025CY | 85025CY |
| 891805 | 85805 | 891825 | 85825 | 892007 | 85007 | 892034 | 85034 |
| 891805CY | 85805CY | 891825CY | 85825CY | 892007CY | 85007CY | | |

| HELUKABEL | Alpha | HELUKABEL | Alpha | HELUKABEL | Alpha | HELUKABEL | Alpha |
|---|---|---|---|---|---|---|---|
| 10001 | 65002 | 10142 | 65204 | 15077 | 85407 | 18031 | 86204 |
| 10002 | 65003 | 10143 | 65205 | 15143 | 85204 | 18032 | 86205 |
| 10004 | 65004 | 10144 | 65207 | 15145 | 85104 | 18034 | 86207 |
| 10006 | 65005 | 10147 | 65103 | 15147 | 85904 | 18037 | 86212 |
| 10009 | 65007 | 10148 | 65104 | 15149 | 85704 | 18040 | 86218 |
| 10013 | 65012 | 10149 | 65105 | 15151 | 85634CY | 18057 | 86302 |
| 10016 | 65018 | 10152 | 65904 | 15160 | 85904CY | 18058 | 86303 |
| 10019 | 65025 | 10153 | 65905 | 15162 | 85704CY | 18059 | 86304 |
| 10030 | 65802 | 10155 | 65704 | 15926 | 85404CY | 18060 | 86305 |
| 10031 | 65803 | 10156 | 65705 | 15928 | 85407CY | 18062 | 86307 |
| 10033 | 65804 | 10158 | 65504 | 15931 | 85003CY | 18065 | 86312 |
| 10035 | 65805 | 10159 | 65505 | 15932 | 85004CY | 18068 | 86318 |
| 10038 | 65807 | 10161 | 65304 | 15933 | 85005CY | 18096 | 86325 |
| 10041 | 65809 | 10162 | 65305 | 15934 | 85007CY | 18117 | 86125 |
| 10043 | 65812 | 15002 | 85003 | 15935 | 85012CY | 18118 | 86225 |
| 10047 | 65818 | 15003 | 85004 | 15936 | 85018CY | 20001 | 86102CY |
| 10050 | 65825 | 15004 | 85005 | 15938 | 85025CY | 20002 | 86103CY |
| 10052 | 65834 | 15005 | 85007 | 15946 | 85803CY | 20003 | 86104CY |
| 10054 | 65841 | 15007 | 85012 | 15947 | 85804CY | 20004 | 86105CY |
| 10056 | 65850 | 15010 | 85018 | 15948 | 85805CY | 20006 | 86107CY |
| 10090 | 65602 | 15012 | 85025 | 15949 | 85807CY | 20009 | 86112CY |
| 10091 | 65603 | 15014 | 85034 | 15950 | 85812CY | 20012 | 86118CY |
| 10093 | 65604 | 15020 | 85803 | 15951 | 85818CY | 20029 | 86202CY |
| 10095 | 65605 | 15021 | 85804 | 15952 | 85825CY | 20030 | 86203CY |
| 10098 | 65607 | 15022 | 85805 | 15977 | 85603CY | 20031 | 86204CY |
| 10101 | 65609 | 15023 | 85807 | 15978 | 85604CY | 20032 | 86205CY |
| 10103 | 65612 | 15025 | 85812 | 15979 | 85605CY | 20033 | 86207CY |
| 10107 | 65618 | 15028 | 85818 | 15980 | 85607CY | 20036 | 86212CY |
| 10110 | 65625 | 15030 | 85825 | 15981 | 85612CY | 20039 | 86218CY |
| 10113 | 65641 | 15032 | 85834 | 15982 | 85618CY | 20091 | 86125CY |
| 10115 | 65650 | 15056 | 85603 | 15983 | 85625CY | 20092 | 86225CY |
| 10120 | 65402 | 15057 | 85604 | 18001 | 86102 | 83774 | 86501CY |
| 10121 | 65403 | 15058 | 85605 | 18002 | 86103 | 83775 | 86502CY |
| 10123 | 65404 | 15059 | 85607 | 18003 | 86104 | 83776 | 86503CY |
| 10125 | 65405 | 15061 | 85612 | 18004 | 86105 | 83777 | 86504CY |
| 10127 | 65407 | 15064 | 85618 | 18006 | 86107 | 83778 | 86505CY |
| 10130 | 65412 | 15066 | 85625 | 18009 | 86112 | 83779 | 86506CY |
| 10132 | 65418 | 15068 | 85634 | 18012 | 86118 | 83781 | 86508CY |
| 10134 | 65425 | 15071 | 85650 | 18029 | 86202 | 83782 | 86510CY |
| 10141 | 65203 | 15075 | 85404 | 18030 | 86203 | 83784 | 86514CY |

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**HELUKABEL to Alpha**

| HELUKABEL | Alpha | HELUKABEL | Alpha | HELUKABEL | Alpha | HELUKABEL | Alpha |
|---|---|---|---|---|---|---|---|
| 83792 | 86601CY | 83797 | 86606CY | 83811 | 86702CY | 83817 | 86708CY |
| 83793 | 86602CY | 83799 | 86608CY | 83812 | 86703CY | 83818 | 86710CY |
| 83794 | 86603CY | 83800 | 86610CY | 83813 | 86704CY | 83820 | 86714CY |
| 83795 | 86604CY | 83802 | 86614CY | 83814 | 86705CY | | |
| 83796 | 86605CY | 83810 | 86701CY | 83815 | 86706CY | | |

**Igus to Alpha**

| Igus | Alpha | Igus | Alpha | Igus | Alpha | Igus | Alpha |
|---|---|---|---|---|---|---|---|
| CF130-05-02 | 65002 | CF140-07-05 | 65805CY | CF240-01-04 | 86104CY | CF5-15-07 | 85607 |
| CF130-05-03 | 65003 | CF140-07-07 | 65807CY | CF240-01-05 | 86105CY | CF5-15-12 | 85612 |
| CF130-05-04 | 65004 | CF140-07-12 | 65812CY | CF240-01-07 | 86107CY | CF5-15-18 | 85618 |
| CF130-05-05 | 65005 | CF140-07-18 | 65818CY | CF240-01-18 | 86118CY | CF5-15-25 | 85625 |
| CF130-05-07 | 65007 | CF140-07-25 | 65825CY | CF240-02-03 | 86203CY | CF5-25-04 | 85404 |
| CF130-07-04 | 65804 | CF140-15-03 | 65603CY | CF240-02-04 | 86204CY | CF5-25-07 | 85407 |
| CF130-07-05 | 65805 | CF140-15-04 | 65604CY | CF240-02-05 | 86205CY | CF6-05-05 | 85005CY |
| CF130-07-07 | 65807 | CF140-15-05 | 65605CY | CF240-02-07 | 86207CY | CF6-05-12 | 85012CY |
| CF130-07-12 | 65812 | CF140-15-07 | 65607CY | CF240-02-18 | 86218CY | CF6-05-18 | 85018CY |
| CF130-07-18 | 65818 | CF140-15-12 | 65612CY | CF5-05-03 | 85003 | CF6-07-03 | 85803CY |
| CF130-07-25 | 65825 | CF140-15-18 | 65618CY | CF5-05-07 | 85007 | CF6-07-04 | 85804CY |
| CF130-15-03 | 65603 | CF140-15-25 | 65625CY | CF5-05-12 | 85012 | CF6-07-05 | 85805CY |
| CF130-15-04 | 65604 | CF140-25-04 | 65404CY | CF5-05-18 | 85018 | CF6-07-07 | 85807CY |
| CF130-15-05 | 65605 | CF211-02-01-02 | 86601CY | CF5-05-25 | 85025 | CF6-07-12 | 85812CY |
| CF130-15-07 | 65607 | CF211-02-02-02 | 86602CY | CF5-07-04 | 85804 | CF6-07-18 | 85818CY |
| CF130-15-12 | 65612 | CF211-02-03-02 | 86603CY | CF5-07-05 | 85805 | CF6-15-03 | 85603CY |
| CF130-15-18 | 65618 | CF211-02-04-02 | 86604CY | CF5-07-07 | 85807 | CF6-15-04 | 85604CY |
| CF130-15-25 | 65625 | CF211-02-05-02 | 86605CY | CF5-07-12 | 85812 | CF6-15-05 | 85605CY |
| CF130-25-04 | 65404 | CF211-02-06-02 | 86606CY | CF5-07-18 | 85818 | CF6-15-07 | 85607CY |
| CF130-25-07 | 65407 | CF211-02-08-02 | 86608CY | CF5-07-25 | 85825 | CF6-15-12 | 85612CY |
| CF130-25-12 | 65412 | CF211-02-10-02 | 86610CY | CF5-15-03 | 85603 | CF6-15-18 | 85618CY |
| CF140-07-03 | 65803CY | CF211-02-14-02 | 86614CY | CF5-15-04 | 85604 | CF6-15-25 | 85625CY |
| CF140-07-04 | 65804CY | CF240-01-03 | 86103CY | CF5-15-05 | 85605 | CF6-25-04 | 85404CY |

**Lutze to Alpha**

| Lutze | Alpha | Lutze | Alpha | Lutze | Alpha | Lutze | Alpha |
|---|---|---|---|---|---|---|---|
| 100154 | 85207 | 100431 | 65604 | 100467 | 65103 | 100794 | 85618 |
| 100215 | 65007 | 100432 | 65605 | 100468 | 65104 | 100795 | 85625 |
| 100354 | 65705 | 100433 | 65607 | 100471 | 65904 | 100796 | 85603 |
| 100358 | 65025 | 100437 | 65612 | 100473 | 65704 | 100797 | 85407 |
| 100363 | 65002 | 100440 | 65618 | 100475 | 65905 | 100808 | 85605 |
| 100364 | 65003 | 100443 | 65625 | 100480 | 65504 | 100998 | 85812 |
| 100365 | 65004 | 100447 | 65650 | 100481 | 65304 | 101049 | 85003 |
| 100366 | 65005 | 100453 | 65403 | 100707 | 85404 | 101050 | 85104 |
| 100370 | 65012 | 100454 | 65404 | 100766 | 85803 | 101351 | 85010CY |
| 100373 | 65018 | 100455 | 65405 | 100767 | 85805 | 108003 | 85404CY |
| 100385 | 65803 | 100456 | 65407 | 100768 | 85807 | 108019 | 85107 |
| 100386 | 65804 | 100458 | 65412 | 100771 | 85834 | 108049 | 85204 |
| 100392 | 65812 | 100460 | 65418 | 100780 | 85650 | 108055 | 85018CY |
| 100398 | 65825 | 100461 | 65425 | 100782 | 85818 | 110016 | 86102CY |
| 100400 | 65834 | 100464 | 65204 | 100784 | 85825 | 110017 | 86103CY |
| 100421 | 65850 | 100465 | 65105 | 100787 | 85604 | 110018 | 86104CY |
| 100429 | 65602 | 100465 | 65205 | 100792 | 85607 | 110019 | 86105CY |
| 100430 | 65603 | 100466 | 65207 | 100793 | 85612 | 110021 | 86107CY |



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| Lutze to Alpha | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Lutze** | **Alpha** | **Lutze** | **Alpha** | **Lutze** | **Alpha** | **Lutze** | **Alpha** |
| 110023 | 86112CY | 110601 | 86503CY | 111245 | 85805CY | 116135 | 65407CY |
| 110026 | 86118CY | 110602 | 86504CY | 111303 | 85607CY | 116150 | 65204CY |
| 110090 | 86203CY | 110604 | 86506CY | 111304 | 85612CY | 116153 | 65104CY |
| 110091 | 86204CY | 110606 | 86510CY | 111305 | 85618CY | 118039 | 85005CY |
| 110092 | 86205CY | 110618 | 86602CY | 111306 | 85625CY | 118111 | 85204CY |
| 110096 | 86212CY | 110619 | 86603CY | 116100 | 65803CY | 118112 | 85104CY |
| 110099 | 86218CY | 110620 | 86604CY | 116102 | 65804CY | 118194 | 85605CY |
| 110387 | 65805 | 110622 | 86606CY | 116103 | 65805CY | 118195 | 86605CY |
| 110389 | 65807 | 110633 | 86702CY | 116104 | 65807CY | 118251 | 86608CY |
| 110395 | 65818 | 110634 | 86703CY | 116105 | 65812CY | 118383 | 85004 |
| 110411 | 86207CY | 110635 | 86704CY | 116106 | 65818CY | 118384 | 85007 |
| 110423 | 85004CY | 110637 | 86706CY | 116107 | 65825CY | 118389 | 65402 |
| 110441 | 85803CY | 110665 | 86710CY | 116121 | 65603CY | 119132 | 85818CY |
| 110447 | 85012 | 110774 | 85003CY | 116123 | 65604CY | A1032202 | 86302 |
| 110447 | 85012CY | 110775 | 85007CY | 116124 | 65605CY | A1032203 | 86303 |
| 110486 | 85825CY | 110776 | 85025 | 116125 | 65607CY | A1032204 | 86304 |
| 110490 | 85807CY | 110776 | 85025CY | 116126 | 65612CY | A1032225 | 86325 |
| 110491 | 85812CY | 110908 | 86202CY | 116127 | 65618CY | A1032402 | 86202 |
| 110499 | 85604CY | 110954 | 85603CY | 116128 | 65625CY | A1032403 | 86203 |
| 110566 | 85804CY | 111045 | 85804 | 116132 | 65403CY | A1032404 | 86204 |
| 110591 | 85018 | 111047 | 86125CY | 116133 | 65404CY | A1032425 | 86225 |
| 110600 | 86502CY | 111049 | 86225CY | 116134 | 65405CY | | |

| **SAB** | **Alpha** | **SAB** | **Alpha** | **SAB** | **Alpha** | **SAB** | **Alpha** |
|---|---|---|---|---|---|---|---|
| 02040204 | 65304 | 02041612 | 65612 | 02591003 | 65103CY | 02592007 | 65007CY |
| 02040404 | 65504 | 02041618 | 65618 | 02591004 | 65104CY | 02592012 | 65012CY |
| 02040604 | 65704 | 02041625 | 65625 | 02591005 | 65105CY | 02592025 | 65025CY |
| 02040804 | 65904 | 02041641 | 65641 | 02591203 | 65203CY | 07750204 | 85304 |
| 02040805 | 65905 | 02041802 | 65802 | 02591204 | 65204CY | 07750404 | 85504 |
| 02041003 | 65103 | 02041803 | 65803 | 02591205 | 65205CY | 07750604 | 85704 |
| 02041004 | 65104 | 02041804 | 65804 | 02591403 | 65403CY | 07750804 | 85904 |
| 02041005 | 65105 | 02041805 | 65805 | 02591404 | 65404CY | 07751004 | 85104 |
| 02041203 | 65203 | 02041807 | 65807 | 02591405 | 65405CY | 07751007 | 85107 |
| 02041204 | 65204 | 02041809 | 65809 | 02591407 | 65407CY | 07751204 | 85204 |
| 02041205 | 65205 | 02041812 | 65812 | 02591412 | 65412CY | 07751207 | 85207 |
| 02041207 | 65207 | 02041818 | 65818 | 02591418 | 65418CY | 07751404 | 85404 |
| 02041402 | 65402 | 02041825 | 65825 | 02591603 | 65603CY | 07751407 | 85407 |
| 02041403 | 65403 | 02041834 | 65834 | 02591604 | 65604CY | 07751603 | 85603 |
| 02041404 | 65404 | 02041841 | 65841 | 02591605 | 65605CY | 07751604 | 85604 |
| 02041405 | 65405 | 02042002 | 65002 | 02591607 | 65607CY | 07751605 | 85605 |
| 02041407 | 65407 | 02042003 | 65003 | 02591612 | 65612CY | 07751607 | 85607 |
| 02041409 | 65409 | 02042004 | 65004 | 02591618 | 65618CY | 07751612 | 85612 |
| 02041412 | 65412 | 02042005 | 65005 | 02591625 | 65625CY | 07751618 | 85618 |
| 02041418 | 65418 | 02042007 | 65007 | 02591803 | 65803CY | 07751625 | 85625 |
| 02041425 | 65425 | 02042009 | 65009 | 02591804 | 65804CY | 07751634 | 85634 |
| 02041602 | 65602 | 02042012 | 65012 | 02591805 | 65805CY | 07751650 | 85650 |
| 02041603 | 65603 | 02042018 | 65018 | 02591807 | 65807CY | 07751803 | 85803 |
| 02041604 | 65604 | 02042025 | 65025 | 02591812 | 65812CY | 07751804 | 85804 |
| 02041605 | 65605 | 02590204 | 65304CY | 02591818 | 65818CY | 07751805 | 85805 |
| 02041607 | 65607 | 02590604 | 65704CY | 02591825 | 65825CY | 07751807 | 85807 |
| 02041609 | 65609 | 02590804 | 65904CY | 02592003 | 65003CY | 07751812 | 85812 |

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## Competitive Cross Reference

**SAB to Alpha**

| SAB | Alpha | SAB | Alpha | SAB | Alpha | SAB | Alpha |
|---|---|---|---|---|---|---|---|
| 07751815 | 85815 | 07850404 | 85504CY | 07851612 | 85612CY | 07852007 | 85007CY |
| 07751818 | 85818 | 07850604 | 85704CY | 07851618 | 85618CY | 07852010 | 85010CY |
| 07751825 | 85825 | 07850804 | 85904CY | 07851625 | 85625CY | 07852012 | 85012CY |
| 07751834 | 85834 | 07851004 | 85104CY | 07851803 | 85803CY | 07852018 | 85018CY |
| 07752003 | 85003 | 07851007 | 85107CY | 07851804 | 85804CY | 07852025 | 85025CY |
| 07752004 | 85004 | 07851204 | 85204CY | 07851805 | 85805CY | 07951203 | 87603 |
| 07752005 | 85005 | 07851207 | 85207CY | 07851807 | 85807CY | 07951403 | 87503 |
| 07752007 | 85007 | 07851404 | 85404CY | 07851812 | 85812CY | 07951404 | 87504 |
| 07752012 | 85012 | 07851407 | 85407CY | 07851818 | 85818CY | 07951603 | 87403 |
| 07752018 | 85018 | 07851603 | 85603CY | 07851825 | 85825CY | 07951604 | 87404 |
| 07752025 | 85025 | 07851604 | 85604CY | 07852003 | 85003CY | 07951607 | 87407 |
| 07752034 | 85034 | 07851605 | 85605CY | 07852004 | 85004CY | 07951804 | 87304 |
| 07850204 | 85304CY | 07851607 | 85607CY | 07852005 | 85005CY | 07952407 | 87007 |

**Belden to Alpha**

| Belden | Alpha | Belden | Alpha | Belden | Alpha | Belden | Alpha |
|---|---|---|---|---|---|---|---|
| 7101A | 85003 | 7122A | 85603 | 7408A | 65025 | 7427AS | 65612CY |
| 7101AS | 85003CY | 7122AS | 85603CY | 7408AS | 65025CY | 7428A | 65618 |
| 7102A | 85004 | 7123A | 85604 | 7409A | 65802 | 7428AS | 65618CY |
| 7102AS | 85004CY | 7123AS | 85604CY | 7410A | 65803 | 7429A | 65625 |
| 7103A | 85005 | 7123AS | 85825CY | 7410AS | 65803CY | 7429AS | 65625CY |
| 7103AS | 85005CY | 7124A | 85605 | 7411A | 65804 | 7431A | 65641 |
| 7104A | 85007 | 7124AS | 85605CY | 7411AS | 65804CY | 7434A | 65402 |
| 7104AS | 85007CY | 7125A | 85607 | 7412A | 65805 | 7435A | 65403 |
| 7106A | 85012 | 7125AS | 85607CY | 7412AS | 65805CY | 7435AS | 65403CY |
| 7106AS | 85012CY | 7127AS | 85812CY | 7413A | 65807 | 7436A | 65404 |
| 7107A | 85018 | 7128AS | 85818CY | 7413AS | 65807CY | 7436AS | 65404CY |
| 7107AS | 85018CY | 7136A | 85404 | 7414A | 65809 | 7437A | 65405 |
| 7108A | 85025 | 7136AS | 85404CY | 7415A | 65812 | 7437AS | 65405CY |
| 7108AS | 85025CY | 7137A | 85407 | 7415AS | 65812CY | 7438A | 65407 |
| 7110A | 85803 | 7137AS | 85407CY | 7416A | 65818 | 7438AS | 65407CY |
| 7110AS | 85803CY | 7145A | 85204 | 7416AS | 65818CY | 7439A | 65409 |
| 7111A | 85804 | 7145AS | 85204CY | 7417A | 65825 | 7440A | 65412 |
| 7111AS | 85804CY | 7146A | 85207 | 7417AS | 65825CY | 7441A | 65418 |
| 7112A | 85805 | 7146AS | 85207CY | 7418A | 65834 | 7442A | 65425 |
| 7112AS | 85805CY | 7147A | 85104 | 7419A | 65841 | 7444A | 65203 |
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# Fahrenheit-to-Celsius Conversion

Temperature Conversion Formula: °F = $^{9}/_{5}$ (°C + 32)

| °F | °C | °F | °C | °F | °C | °F | °C | °F | °C |
|---|---|---|---|---|---|---|---|---|---|
| -40 | -40.00 | 36 | 2.22 | 92 | 33.33 | 148 | 64.44 | 220 | 104.44 |
| -38 | -38.89 | 37 | 2.78 | 93 | 33.89 | 149 | 65.00 | 225 | 107.22 |
| -36 | -37.78 | 38 | 3.33 | 94 | 34.44 | 150 | 65.56 | 230 | 110.00 |
| -34 | -36.67 | 39 | 3.89 | 95 | 35.00 | 151 | 66.11 | 235 | 112.78 |
| -32 | -35.56 | 40 | 4.44 | 96 | 35.56 | 152 | 66.66 | 240 | 115.56 |
| -30 | -34.44 | 41 | 5.00 | 97 | 36.11 | 153 | 67.22 | 245 | 118.33 |
| -28 | -33.33 | 42 | 5.56 | 98 | 36.67 | 154 | 67.77 | 250 | 121.11 |
| -26 | -32.22 | 43 | 6.11 | 99 | 37.22 | 155 | 68.33 | 255 | 123.89 |
| -24 | -31.11 | 44 | 6.67 | 100 | 37.78 | 156 | 68.88 | 260 | 126.67 |
| -22 | -30.00 | 45 | 7.22 | 101 | 38.33 | 157 | 69.44 | 265 | 129.44 |
| -20 | -28.89 | 46 | 7.78 | 102 | 38.88 | 156 | 70.00 | 270 | 132.22 |
| -18 | -27.78 | 47 | 8.33 | 103 | 39.44 | 159 | 70.55 | 275 | 135.00 |
| -16 | -26.67 | 48 | 8.89 | 104 | 40.00 | 160 | 71.11 | 280 | 137.78 |
| -14 | -25.56 | 49 | 9.44 | 105 | 40.55 | 161 | 71.66 | 285 | 140.55 |
| -12 | -24.44 | 50 | 10.00 | 106 | 41.11 | 162 | 72.22 | 290 | 143.33 |
| -10 | -23.33 | 51 | 10.56 | 107 | 41.66 | 163 | 72.77 | 295 | 146.11 |
| -8 | -22.22 | 52 | 11.11 | 108 | 42.22 | 164 | 73.33 | 300 | 148.89 |
| -6 | -21.11 | 53 | 11.67 | 109 | 42.77 | 165 | 73.89 | 305 | 151.67 |
| -4 | -20.00 | 54 | 12.22 | 110 | 43.33 | 166 | 74.44 | 310 | 154.44 |
| -2 | -18.89 | 55 | 12.78 | 111 | 43.88 | 167 | 75.00 | 315 | 157.22 |
| 0 | -17.78 | 56 | 13.33 | 112 | 44.44 | 168 | 75.55 | 320 | 160.00 |
| 1 | -17.22 | 57 | 13.89 | 113 | 45.00 | 169 | 76.11 | 325 | 162.78 |
| 2 | -16.67 | 58 | 14.44 | 114 | 45.55 | 170 | 76.67 | 330 | 165.56 |
| 3 | -16.11 | 59 | 15.00 | 115 | 46.11 | 171 | 77.22 | 335 | 168.33 |
| 4 | -15.56 | 60 | 15.56 | 116 | 46.66 | 172 | 77.77 | 340 | 171.11 |
| 5 | -15.00 | 61 | 16.11 | 117 | 47.22 | 173 | 78.33 | 345 | 173.89 |
| 6 | -14.44 | 62 | 16.67 | 118 | 47.77 | 174 | 78.88 | 350 | 176.67 |
| 7 | -13.89 | 63 | 17.22 | 119 | 48.33 | 175 | 79.44 | 355 | 179.44 |
| 8 | -13.33 | 64 | 17.78 | 120 | 48.89 | 176 | 80.00 | 360 | 182.22 |
| 9 | -12.78 | 65 | 18.33 | 121 | 49.44 | 177 | 80.55 | 365 | 185.00 |
| 10 | -12.22 | 66 | 18.89 | 122 | 50.00 | 178 | 81.11 | 370 | 187.78 |
| 11 | -11.67 | 67 | 19.44 | 123 | 50.55 | 179 | 88.66 | 375 | 190.55 |
| 12 | -11.11 | 68 | 20.00 | 124 | 51.11 | 180 | 82.22 | 380 | 193.33 |
| 13 | -10.56 | 69 | 20.56 | 125 | 51.67 | 181 | 82.77 | 385 | 196.11 |
| 14 | -10.00 | 70 | 21.11 | 126 | 52.22 | 182 | 83.33 | 390 | 198.89 |
| 15 | -9.44 | 71 | 21.67 | 127 | 52.77 | 183 | 83.88 | 395 | 201.67 |
| 16 | -8.89 | 72 | 22.22 | 128 | 53.33 | 184 | 84.44 | 400 | 204.44 |
| 17 | -8.33 | 73 | 22.78 | 129 | 53.88 | 185 | 85.00 | 405 | 207.22 |
| 18 | -7.78 | 74 | 23.33 | 130 | 54.44 | 186 | 85.55 | 410 | 210.00 |
| 19 | -7.22 | 75 | 23.89 | 131 | 55.00 | 187 | 86.11 | 415 | 212.78 |
| 20 | -6.67 | 76 | 24.44 | 132 | 55.55 | 188 | 86.66 | 420 | 215.56 |
| 21 | -6.11 | 77 | 25.00 | 133 | 56.11 | 189 | 87.22 | 425 | 218.33 |
| 22 | -5.56 | 78 | 25.56 | 134 | 56.66 | 190 | 87.78 | 430 | 221.11 |
| 23 | -5.00 | 79 | 26.11 | 135 | 57.22 | 191 | 88.33 | 435 | 223.89 |
| 24 | -4.44 | 80 | 26.67 | 136 | 57.77 | 192 | 88.86 | 440 | 226.67 |
| 25 | -3.89 | 81 | 27.72 | 137 | 58.33 | 193 | 89.44 | 445 | 229.44 |
| 26 | -3.33 | 82 | 27.78 | 138 | 58.88 | 194 | 90.00 | 450 | 232.22 |
| 27 | -2.78 | 83 | 28.33 | 139 | 59.44 | 195 | 90.55 | 455 | 235.00 |
| 28 | -2.22 | 84 | 28.89 | 140 | 60.00 | 196 | 91.11 | 460 | 237.78 |
| 29 | -1.67 | 85 | 29.44 | 141 | 60.55 | 197 | 91.66 | 465 | 240.55 |
| 30 | -1.11 | 86 | 30.00 | 142 | 61.11 | 198 | 92.22 | 470 | 243.33 |
| 31 | -0.56 | 87 | 30.56 | 143 | 61.66 | 199 | 92.77 | 475 | 246.11 |
| 32 | 0 | 88 | 31.11 | 144 | 62.22 | 200 | 93.33 | 480 | 248.89 |
| 33 | 0.56 | 89 | 31.67 | 145 | 62.78 | 205 | 96.11 | 485 | 251.67 |
| 34 | 1.11 | 90 | 32.22 | 146 | 63.33 | 210 | 98.89 | 490 | 254.44 |
| 35 | 1.67 | 91 | 32.78 | 147 | 63.88 | 215 | 101.67 | 495 | 257.22 |
| | | | | | | | | 500 | 260.00 |

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# Celsius-to-Fahrenheit Conversion

Temperature Conversion Formula: °C = $^{5}/_{9}$ (°F - 32)

| °C | °F | °C | °F | °C | °F | °C | °F | °C | °F |
|---|---|---|---|---|---|---|---|---|---|
| -40 | -40.00 | 36 | 96.80 | 92 | 197.60 | 148 | 298.40 | 220 | 428.00 |
| -38 | -36.40 | 37 | 98.60 | 93 | 199.40 | 149 | 300.20 | 225 | 437.00 |
| -36 | -32.80 | 38 | 100.40 | 94 | 201.20 | 150 | 302.00 | 230 | 446.00 |
| -34 | -29.20 | 39 | 102.20 | 95 | 203.00 | 151 | 303.80 | 235 | 455.00 |
| -32 | -25.60 | 40 | 104.00 | 96 | 204.80 | 152 | 305.60 | 240 | 464.00 |
| -30 | -22.00 | 41 | 105.80 | 97 | 206.60 | 153 | 307.40 | 245 | 473.00 |
| -28 | -18.40 | 42 | 107.60 | 98 | 208.40 | 154 | 309.20 | 250 | 482.00 |
| -26 | -14.80 | 43 | 109.40 | 99 | 210.20 | 155 | 311.00 | 255 | 491.00 |
| -24 | -11.20 | 44 | 111.20 | 100 | 212.00 | 156 | 312.80 | 260 | 500.00 |
| -22 | -7.60 | 45 | 113.00 | 101 | 213.80 | 157 | 314.60 | 265 | 509.00 |
| -20 | -4.00 | 46 | 114.80 | 102 | 215.60 | 156 | 312.80 | 270 | 518.00 |
| -18 | -0.40 | 47 | 116.60 | 103 | 217.40 | 159 | 318.20 | 275 | 527.00 |
| -16 | 3.20 | 48 | 118.40 | 104 | 219.20 | 160 | 320.00 | 280 | 536.00 |
| -14 | 6.80 | 49 | 120.20 | 105 | 221.00 | 161 | 321.80 | 285 | 545.00 |
| -12 | 10.40 | 50 | 122.00 | 106 | 222.80 | 162 | 323.60 | 290 | 554.00 |
| -10 | 14.00 | 51 | 123.80 | 107 | 224.60 | 163 | 325.40 | 295 | 563.00 |
| -8 | 17.60 | 52 | 125.60 | 108 | 226.40 | 164 | 327.20 | 300 | 572.00 |
| -6 | 21.20 | 53 | 127.40 | 109 | 228.20 | 165 | 329.00 | 305 | 581.00 |
| -4 | 24.80 | 54 | 129.20 | 110 | 230.00 | 166 | 330.80 | 310 | 590.00 |
| -2 | 28.40 | 55 | 131.00 | 111 | 231.80 | 167 | 332.60 | 315 | 599.00 |
| 0 | 32.00 | 56 | 132.80 | 112 | 233.60 | 168 | 334.40 | 320 | 608.00 |
| 1 | 33.80 | 57 | 134.60 | 113 | 235.40 | 169 | 336.20 | 325 | 617.00 |
| 2 | 35.60 | 58 | 136.40 | 114 | 237.20 | 170 | 338.00 | 330 | 626.00 |
| 3 | 37.40 | 59 | 138.20 | 115 | 239.00 | 171 | 339.80 | 335 | 635.00 |
| 4 | 39.20 | 60 | 140.00 | 116 | 240.80 | 172 | 341.60 | 340 | 644.00 |
| 5 | 41.00 | 61 | 141.80 | 117 | 242.60 | 173 | 343.40 | 345 | 653.00 |
| 6 | 42.80 | 62 | 143.60 | 118 | 244.40 | 174 | 345.20 | 350 | 662.00 |
| 7 | 44.60 | 63 | 145.40 | 119 | 246.20 | 175 | 347.00 | 355 | 671.00 |
| 8 | 46.40 | 64 | 147.20 | 120 | 248.00 | 176 | 348.80 | 360 | 680.00 |
| 9 | 48.20 | 65 | 149.00 | 121 | 249.80 | 177 | 350.60 | 365 | 689.00 |
| 10 | 50.00 | 66 | 150.80 | 122 | 251.60 | 178 | 352.40 | 370 | 698.00 |
| 11 | 51.80 | 67 | 152.60 | 123 | 253.40 | 179 | 354.20 | 375 | 707.00 |
| 12 | 53.60 | 68 | 154.40 | 124 | 255.20 | 180 | 356.00 | 380 | 716.00 |
| 13 | 55.40 | 69 | 156.20 | 125 | 257.00 | 181 | 357.80 | 385 | 725.00 |
| 14 | 57.20 | 70 | 158.00 | 126 | 258.80 | 182 | 359.60 | 390 | 734.00 |
| 15 | 59.00 | 71 | 159.80 | 127 | 260.60 | 183 | 361.40 | 395 | 743.00 |
| 16 | 60.80 | 72 | 161.60 | 128 | 262.40 | 184 | 363.20 | 400 | 752.00 |
| 17 | 62.60 | 73 | 163.40 | 129 | 264.20 | 185 | 365.00 | 405 | 761.00 |
| 18 | 64.40 | 74 | 165.20 | 130 | 266.00 | 186 | 366.80 | 410 | 770.00 |
| 19 | 66.20 | 75 | 167.00 | 131 | 267.80 | 187 | 368.60 | 415 | 779.00 |
| 20 | 68.00 | 76 | 168.80 | 132 | 269.60 | 188 | 370.40 | 420 | 788.00 |
| 21 | 69.80 | 77 | 170.60 | 133 | 271.40 | 189 | 372.20 | 425 | 797.00 |
| 22 | 71.60 | 78 | 172.40 | 134 | 273.20 | 190 | 374.00 | 430 | 806.00 |
| 23 | 73.40 | 79 | 174.20 | 135 | 275.00 | 191 | 375.80 | 435 | 815.00 |
| 24 | 75.20 | 80 | 176.00 | 136 | 276.80 | 192 | 377.60 | 440 | 824.00 |
| 25 | 77.00 | 81 | 177.80 | 137 | 278.60 | 193 | 379.40 | 445 | 833.00 |
| 26 | 78.80 | 82 | 179.60 | 138 | 280.40 | 194 | 381.20 | 450 | 842.00 |
| 27 | 80.60 | 83 | 181.40 | 139 | 282.20 | 195 | 383.00 | 455 | 851.00 |
| 28 | 82.40 | 84 | 183.20 | 140 | 284.00 | 196 | 384.80 | 460 | 860.00 |
| 29 | 84.20 | 85 | 185.00 | 141 | 285.80 | 197 | 386.60 | 465 | 869.00 |
| 30 | 86.00 | 86 | 186.80 | 142 | 287.60 | 198 | 388.40 | 470 | 878.00 |
| 31 | 87.80 | 87 | 188.60 | 143 | 289.40 | 199 | 390.20 | 475 | 887.00 |
| 32 | 89.60 | 88 | 190.40 | 144 | 291.20 | 200 | 392.00 | 480 | 896.00 |
| 33 | 91.40 | 89 | 192.20 | 145 | 293.00 | 205 | 401.00 | 485 | 905.00 |
| 34 | 93.20 | 90 | 194.00 | 146 | 294.80 | 210 | 410.00 | 490 | 914.00 |
| 35 | 95.00 | 91 | 195.80 | 147 | 296.60 | 215 | 419.00 | 495 | 923.00 |
| | | | | | | | | 500 | 932.00 |



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# Glossary

**abrasion resistance** Ability of a wire or cable material to resist surface wear.

**accelerated aging** A test in which voltage, temperature, etc., are increased above normal operating values to obtain observable deterioration in a relatively short period of time. The plotted results give expected service life under normal conditions.

**accelerator** A chemical additive which hastens a chemical reaction under specific conditions.

**adhesive lined** For heat-shrink tubing, an inner lining that, when heated, adheres to the substrate, providing additional strength and environmental sealing.

**admittance** The measure of the ease with which an alternating current flows in a circuit. The reciprocal of impedance.

**aging** The change in properties of a material with time under specific conditions.

**air-spaced coaxial cable** One in which air is the essential dielectric material. A spirally wound synthetic filament or spacer may be used to center the conductor.

**alloy** A metal formed by combining two or more different metals to obtain desirable properties.

**ALS** A type of cable consisting of insulated conductors enclosed in a continuous, closely fitting aluminum tube.

**alternating current (AC)** Electric current that continually reverses its direction. It is expressed in cycles per second (hertz or Hz).

**ambient temperature** The temperature of a medium surrounding an object.

**ampacity** See current-carrying capacity.

**ampere** The unit of current. One ampere is the current flowing through one ohm of resistance at one volt potential.

**analog circuit** Output of electrical signals as a continuous function of input, as contrasted with digital circuit.

**anneal** Relief of mechanical stress through heat and gradual cooling. Annealing copper renders it less brittle.

**annealed wire** Wire, which after final drawdown, has been heated and slowly cooled to remove the effects of cold working.

**ANSI** American National Standards Institute.

**anti-oxidant** A substance which prevents or slows down oxidation of material exposed to air.

**arc resistance** The time required for an arc to establish a conductive path in a material.

**armor** A braid or wrapping of metal, usually steel, used for mechanical protection. Generally placed over the outer jacket.

**ASA** American Standards Association. Former name of ANSI.

**ASCII** American Standard Code for Information Interchange.

**ASME** American Society of Mechanical Engineers.

**ASTM** American Society for Testing and Materials, a nonprofit industry-wide organization which publishes standards, methods of test, recommended practices, definitions and other related material.

**attenuation** Power loss in an electrical system. In cables, generally expressed in dB per unit length, usually 1000 ft.

**audio frequency** The range of frequencies audible to the human ear. Usually 30 Hz to 20,000 Hz.

**AWG** American Wire Gauge. A standard system for designating wire diameter.

**AWM** Appliance Wiring Material.

**backbone wiring** The physical/electrical interconnections between telecommunications closets and equipment rooms. Cross-connect hardware and cabling in the main and intermediate cross-connects are considered part of the backbone wiring.

**balanced circuit** A circuit so arranged that the impressed voltages on each conductor of the pair are equal in magnitude but opposite in polarity with respect to ground.

**band marking** A continuous circumferential band applied to a conductor at regular intervals for identification.

**bandwidth** The difference between the upper and lower limits of a given band of frequencies. Expressed in hertz (Hz).

**baud** Unit of data transmission speed representing bits per second. 9600 baud = 9600 bits per second.

**bend radius** The radius of curvature that a wire or cable can bend without causing any damaging effects.


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# Glossary

**binder** A spirally served tape or thread used for holding assembled cable components in place awaiting subsequent manufacturing operations.

**bit error rate (BER)** Discrepancy between outgoing and incoming bits transmitted between data equipment.

**bit** One binary digit.

**bond strength** Amount of adhesion between surfaces, e.g. in cemented ribbon cable.

**braid** A fibrous or metallic group filaments interwoven in cylindrical form to form a covering over one (1) or more wires.

**braid angle** The smaller of the two angles formed by the shielding strand and the axis of the cable being shielded.

**braid carrier** A spool or bobbin on a braider which holds one group of strands or filaments consisting of a specific number of ends. The carrier revolves during braiding operations.

**braid ends** The number of strands used to make up one carrier. The stands are wound side by side on the carrier bobbin and lie parallel in the finished braid.

**breakdown voltage** The voltage at which the insulation between two conductors is destroyed.

**breakout** The point at which a conductor or group of conductors is separated from a multiconductor cable to complete circuits at various points along the main cable.

**building wire** Wire used for light and power, 600 volts or less, usually not exposed to outdoor environment.

**bunch stranding** A group of wires of the same diameter twisted together without a predetermined pattern.

**buried cable** A cable installed directly into the earth without the use of underground conduit. Also called “direct burial cable.”

**byte** A group of eight binary digits.

**CSA** Canadian Standards Association a nonprofit, independent organization which operates a listing service for electrical and electronic materials and equipment. The Canadian counterpart of the Underwriters Laboratories.

**cable** An insulated conductor or group of individually insulated conductors in twisted or parallel configuration with a protective jacket.

**cable assembly** A length of cable with connectors on one or both ends.

**cable track, C track** Flexible plastic or metallic tray, used to guide and protect cables in high speed motion applications.

**cabling** The twisting together of two or more insulated conductors to form a cable.

**cabling factor** Used in the formula for calculating the diameter of an unshielded, unjacketed cable. D=Kd, where the D is the cable diameter, K is the factor, and d is the diameter of one insulated conductor.

**CAD/CAM** Computer aided design/ computer aided manufacturing.

**campus backbone** Wiring between buildings that share telecommunications facilities.

**capacitance** The ratio of the electrostatic charge on a conductor to the potential difference between the conductors required to maintain that charge.

**capacitance, direct** The capacitance measured directly from conductor to conductor through a single insulating layer.

**capacitance, mutual** The capacitance between two conductors with all other conductors, including shield, short circuited to ground.

**capacitive coupling** Electrical interaction between two conductors caused by the capacitance between them.

**carrier frequency** The electromagnetic wave frequency selected to transmit information. Optical carrier frequency is from the infrared, visible range or ultraviolet spectrum areas (1012 Hz and above).

**CE (Conformité Européenne)** European Economic Community approval indicating that a product complies with a European Directive.

**cellular (foamed) polyethylene** Expanded or “foam” polyethylene consisting of individual closed cells suspended in a polyethylene medium.

**CENELEC** European Economic Community Committee for Standardization of technical requirements.

**center-to-center distance** See pitch.

**certificate of compliance (C of C)** A certificate which is normally generated by a quality control department, which shows that the product being shipped meets customer’s specifications.


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# Glossary

**certified test report (CTR)** A report providing actual test data on a cable. Tests are normally run by a quality control department, which shows that the product being shipped conforms to test specifications.

**characteristic impedance** The impedance that, when connected to the output terminals of a transmission line of any length, makes the line appear infinitely long. The ratio of voltage to current at every point along a transmission line on which there are no standing waves.

**CIP** Common Industrial Protocol. A media-inpdendent application-layer protocol used by DeviceNet, ControlNet, and EtherNet/IP. Trademark of OVDA.

**circuit** The entire route of an electric current.

**circular mil** The area of a circle one mil (0.001") in diameter; 7.845 x $10^{-7}$ sq. in. Used in expressing wire cross sectional area.

**cladding** A method of applying a layer of metal over another metal whereby the junction of the two metals is continuously welded.

**coaxial cable** A cable consisting of two cylindrical conductors with a common axis, separated by a dielectric.

**cold flow** Permanent deformation of the insulation due to mechanical force or pressure (not due to heat softening).

**color code** A system for circuit identification through use of solld colors and contrasting tracers.

**common axis cabling** In multiple cable constructions, a twisting of all conductors about a "common axis" with two conductor groups then selected as pairs. This practice yields smaller diameter constructions than does a separate axis construction, but tends to yield greater susceptance to EMI and ESI.

**common mode noise** Noise, caused by a difference in "group potential." By grounding at either end rather than both ends (usually grounded at source) one can reduce this interference.

**composite cable** A cable containing more than one gauge size or a variety of circuit types, e.g., pairs, triples, quads, coaxials, etc.

**compound** An insulating or jacketing material made by mixing two or more ingredients.

**concentric stranding** A central wire surrounded by one or more layers of helically wound strands in a fixed round geometric arrangement.

**concentricity** In a wire or cable, the measurement of the location of the center of the conductor with respect to the geometric center of the surrounding insulation.

**conductance** The ability of a conductor to carry an electrical charge. The ratio of the current flow to the potential difference causing the flow. The reciprocal of resistance.

**conductivity** The capability of a material to carry electrical current–usually expressed as a percentage of copper conductivity (copper being 100%).

**conductor** An uninsulated wire suitable for carrying electrical current.

**conductor spacing** Distance between the closest edges of two adjacent conductors.

**conduit** A tube or trough in which insulated wires and cables are passed.

**connector** A device used to physically and electrically connect two or more conductors.

**connector adapter** A special type of connector that allows mating of otherwise incompatible connectors. Examples include a female adapter that mates two male connectors; or a connector that mates a 9-position connector to a 25-position connector.

**contact** The parts of a connector which actually carry the electrical current and are touched together or separated to control the flow.

**continuity check** A test to determine whether electrical current flows continuously throughout the length of a single wire or individual wires in a cable.

**continuous vulcanization** Simultaneous extrusion and vulcanization of rubber-like wire coating materials.

**control cable** A multiconductor cable made for operation in control or signal circuits.

**ControlNet** An industrial automation protocol that is highly scheduled and deterministic, operates at 5 Mb/s, and uses the same CIP application layer protocol as DeviceNet and EtherNET/IP. Trademark of ODVA.

**copolymer** A compound resulting from the polymerization of two different monomers.


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# Glossary

**copper** A reddish metal that is an excellent conductor of electricity.

**copper-clad** Steel with a coating of copper welded to it.

**Copperweld** Copperweld Steel's trademark for copper-covered steel conductor.

**cord** A small, flexible insulated cable.

**core** In cables, a component or assembly of components over which additional components (shield, sheath, etc.) are applied.

**corona** A discharge due to ionization of air around a conductor due to potential gradient exceeding a certain critical value.

**corona resistance** The time that the insulation will withstand a specified level of field-intensified ionization that does not result in the immediate complete breakdown of the insulation.

**corrosion** The deterioration of a material by chemical reaction or galvanic action.

**coverage** The percent of completeness with which a metal braid covers the underlying surface.

**CRCS** Continuous rigid cable support. Synonymous with tray.

**creep** The dimensional change with time of a material under load.

**cross-linked** Inter-molecular bonds between long chain thermoplastic polymers by chemical of electron bombardment means. The properties of the resulting thermosetting material are usually improved.

**cross-linked polyethylene** A form of polyethylene whose molecules are more closely linked to produce a greater balance of physical and electrical properties.

**crosstalk** A type of interference caused by signals from one circuit being coupled into adjacent circuits.

**C-track** A cable guide mechanism manufactured of either plastic or metal used in continuous flexing applications.

**current** Flow of electricity, measured in amps.

**current-carrying capacity** The maximum current an insulated conductor can safely carry with out exceeding its insulation and jacket temperature limitations.

**cut-through resistance** The ability of a material to withstand mechanical pressure, (usually a sharp edge or small radius) without separation.

**CV** Continuous vulcanization.

**cycle life** The number of repetitive flex motions that a wire or cable can withstand prior to breakdown.

**decibel (dB)** A unit to express differences of power level. A term that expresses two power levels used to indicate gains or losses in a system.

**delay line** A cable made to provide a very low velocity of propagation with long electrical delay for transmitted signals.

**derating factor** A factor used to reduce the current carrying capacity of a wire when used in environments other than that for which the value was established.

**DeviceNet** An industrial automation protocol operating in either a master/slave or distributed fashion to connect controllers to sensors. Trademark of ODVA.

**dielectric** Any insulating (nonconducting) material between two conductors.

**dielectric constant (k)** The ratio of the capacitance using the material in question as the dielectric, to the capacitance resulting when the material is replaced by air.

**dielectric strength** The voltage which an insulation can withstand before breakdown occurs. Usually expressed as a voltage gradient (such as volts per mil).

**dielectric test** A test in which a voltage higher than the rated voltage is applied for a specified time to determine the adequacy of the insulation under normal conditions.

**digital** Representation of data by discrete characters.

**direct burial cable** A cable installed directly in the earth, without a conduit.

**direct current (DC)** An electric current which flows in one direction.

**direct current resistance (DCR)** The resistance offered by any circuit to the flow of direct current.

**direction of lay** The lateral direction in which the strands of a conductor run over the top of the cable conductor as they recede from an observer looking along the axis of the conductor or cable. Also applies to twisted cable.


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# Glossary

**dissipation factor** The tangent of the loss angle of the insulating material. (Also referred to as loss tangent, tan δ, and approximate power factor.)

**drain wire** In a cable, the uninsulated wire in intimate contact with a shield to provide for easier termination of such a shield to ground.

**drawing** In wire manufacture, pulling the metal through a die or series of dies to reduce diameter to a specified size.

**dual wall** With heat shrink tubing, a construction having a double-layer construction, with the inner wall typically having an adhesive or meltable structure to bond and seal the tubing to the substrate.

**duct** An underground or overhead tube for carrying electrical cables.

**duplex insulated** In the thermocouple industry, a combination of dissimilar metal conductors of a thermocouple or thermocouple extension wire.

**eccentricity** Like concentricity, a measure of the center of a conductor's location with respect to the circular cross section of the insulation. Expressed as a percentage of displacement of the circle within the other.

**ECTFE** Ethylene chloro-trifluoroethylene.

**EIA** Electronic Industries Alliance.

**elastomer** A class of long-chain polymers capable of being crosslinked to produce elastic compounds, e.g. polychloroprene and ethylene propylene rubber.

**electromagnetic** Pertaining to the combined electric and magnetic fields associated with movements of electrons through conductors.

**electromotive force (EMF)** Pressure or voltage. The force which causes current to flow in a circuit.

**electrostatic** Pertaining to static electricity or electricity at rest. A constant intensity electric charge.

**elongation** The fractional increase in length of a material stressed in tension.

**EMC** Electromagnetic compatibility. No emission of interference exceeding FCC limits.

**EMF** See electromotive force.

**EMI** Electromagnetic interference.

**EMP** Electromagnetic pulse.

**ends** In braiding, the number of essentially parallel wires or threads on a carrier.

**EPOS** Abbreviation for electronic point-of-sale.

**EPR** Ethylene-propylene rubber, having similar physical properties to butyl rubber. The polymer is chemically cross-linked.

**epoxy** An adhesive used in the connector termination process.

**EtherNet/IP** An industrial automation protocol using CIP for upper layers and Ethernet for the lower layers. Trademark of ODVA.

**ETFE** Ethylene tetrafluoroethylene.

**ETPC** Abbreviation for electrolytic tough pitch copper. It has a minimum conductivity of 99.9%.

**expanded diameter** Diameter of shrink tubing as supplied. When heated, the tubing will shrink to its extruded diameter.

**external interference** The effects of electrical waves or fields which cause spurious signals other than the desired intelligence, e.g. noise.

**extrusion** A process of continuously applying an insulation over a conductor or jacket (rubber or plastic compounds).

**FAA** Federal Aeronautics Administration.

**farad (F)** Unit of capacitance whereby a charge of one coulomb produces a one volt potential difference.

**fatigue resistance** Resistance to metal crystallization which leads to conductors breaking from flexing.

**feedback** Transfer of some output energy of an amplifier to its input, so as to modify its characteristic.

**FEP** Fluorinated ethylene propylene.

**FHDPE** Foamed high-density polyethylene.

**Fieldbus** (1) A generic term for communication protocols used in industrial networks for instrumentation and control. (2) A specific set of protocols that includes Foundation Fieldbus and HSE (High-Speed Ethernet).

**figure 8 cable** An aerial cable configuration in which the conductors and the steel strand which supports the cable are integrally jacketed. A cross section of the finished cable approximates the figure "eight."


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# Glossary

**filled cable** A telephone cable construction in which the cable core is filled with a material that will prevent moisture from entering or passing through the cable.

**filler** (1) A material used in multiconductor cables to occupy large interstices formed by the assembled conductors. (2) An inert substance added to a compound to improve properties or decrease cost.

**film** A thin plastic sheet.

**FIT®** Alpha Wire registered trademark for shrinkable tubing and wire management products.

**flame resistance** The ability of a material not to propagate flame once the flame source is removed.

**flammability** The measure of the material's ability to support combustion.

**flat cable** Multiconductor cable arranged in a parallel type configuration manufactured with controlled tolerance spacing.

**flat conductor** A wire having a rectangular cross section as opposed to round or square conductors.

**flat conductor cable** A cable with several flat conductors.

**FLC** Fluorocopolymer insulating and/or jacketing compounds.

**flex life** The measurement of the ability of a conductor or cable to withstand repeated bending.

**flexibility** That quality of a cable or cable component which allows for bending under the influence of outside force, as opposed to limpness which is bending due to the cable's own weight.

**foam polyethylene** See cellular polyethylene.

**foamed plastics** Insulations having a cellular structure.

**FPE** Foam polyethylene.

**FPP** Foam polypropylene.

**frequency** Number of times an alternating current reverses itself in one second. Express in Hertz (hz), which is one cycle per second.

**gang strip** Simultaneous stripping all conductors in a flat or ribbon cable.

**Gauge** A term used to denote the physical size of a wire.

**Giga-** A numerical prefix denoting one billion ($10^9$).

**gigahertz (GHz)** A unit of frequency equal to one billion hertz.

**ground** A conducting connection between an electrical circuit and the earth or other large conducting body to serve as an earth thus making a complete electrical circuit.

**ground fault** A failure of transmission involving insulation-to-shield or insulation-to-ground wire.

**halogen** Elements such as fluorine, chlorine, bromine, and iodine that are highly reactive and can be harmful to people and animals.

**hard-drawn copper wire** Copper wire that has not been annealed after drawing.

**harmonized** Products meeting requirements of CENELEC for use in European Economic Community.

**harness** An arrangement of wires and cables, usually with many breakouts, which have been tied together or pulled into a rubber or plastic sheath, used to interconnect electric circuits.

**hash mark stripe** A non-continuous helical stripe applied to a conductor for identification.

**heat distortion** Distortion or flow of a material or configuration due to application of heat.

**heat endurance** The time of heat aging that a material can withstand before failing a specific physical test.

**heat shock** A test to determine stability of a material by sudden exposure to a high temperature for a short period of time.

**helical stripe** A continuous, colored, spiral stripe applied to a conductor for circuit identification.

**henry (H)** The unit of inductance.

**hertz (Hz)** The unit of frequency, expressing cycles per second.

**high voltage** Generally, a wire or cable with an operating voltage of over 600 volts.

**hi-pot** A test designed to determine the highest voltage that can be applied to a conductor without electrically breaking down the insulation.

**hook-up wire** A single insulated conductor used for low current, low voltage (usually under 1000 volts) applications within enclosed electronic equipment.

**hygroscopic** Readily absorbing and retaining moisture.

**ICEA** Insulated Cable Engineers Association.


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# Glossary

**IDC** Insulation displacement connector.

**IEC** International Electrotechnical Commission.

**IEEE** Institute of Electrical and Electronic Engineers.

**IEEE-488** A standard for connecting test equipment. Also know as General-Purpose Interface Bus (GPIB).

**impact strength** A test for determining the mechanical punishment a cable can withstand without physical or electrical breakdown by impacting with a given weight, dropped a given distance, in a controlled environment.

**impedance** The total opposition that a circuit offers to the flow of alternating current or any other varying current at a particular frequency. It is a combination of resistance R and reactance X, measured in ohms.

**IMSA** International Municipal Signal Association.

**index edge** See reference edge.

**inductance** The property of a circuit or circuit element that opposes a change in current flow, thus causing current changes to lag behind voltage changes. It is measured in henrys.

**inductive coupling** Crosstalk resulting from the action of the electromagnetic field of one conductor on the other.

**insulation** A material having high resistance to the flow of electric current. Often called a dielectric in radio frequency (coaxial) cable.

**insulation resistance** The ratio of the applied voltage to the current between two electrodes in contact with a specific insulation.

**Insulation** A material having high resistance to the flow of electric current.

**interconnecting cable** The wiring between modules, between units, or the larger portions of a system.

**interference** Electrical or electromagnetic disturbances which introduce undesirable responses into other electronic equipment.

**interstices** Voids or valleys between individual strands in a conductor or between insulated conductors in a multiconductor cable during extreme flexing.

**IPCEA** Insulated Power Cable Engineers Association.

**irradiated** Exposure to high-energy radiation resulting in cross-linking of molecules.

**irradiation** In insulations, the exposure of the material to high energy emissions for the purpose of favorably altering the molecular structure.

**ISA** Originally, Instrument Society of America, now called International Society of Automation.

**ISO** International Standards Organization.

**jacket** An outer covering, usually non-metallic, mainly used for protection against the environment.

**jumper cable** A short flat cable interconnecting two wiring boards or devices.

**kilo- (k)** A numerical prefix denoting 1000 ($10^3$).

**kilometer (km)** 1000 meters or 3281 feet (0.621 miles).

**kpsi** Tensile strength in thousands of pounds per square inch.

**kV** kilovolt, 1000 volts

**laminated tape** A tape consisting of two or more layers of different materials bonded together.

**lay** The length measured along the axis of a wire or cable required for a single strand (in stranded wire) or conductor (in cable) to make one complete turn about the axis of the conductor or cable.

**leakage current** The undesirable flow of current through or over the surface of an insulation.

**life cycle** A test to determine the length of time before failure in a controlled, usually accelerated, environment.

**limits of error** The maximum deviation (in degrees or percent) of a thermocouple or thermocouple extension wire from standard EMF-temperature to be measured.

**link** The complete point-to-point communications path between transmitter and receiver.

**litz** A type of specialty cable designed to reduces AC losses in conductors from skin and proximity effects at high frequencies to make transformers and motors more efficient. Litz wire consists of individually insulated strands woven or twisted in a specific pattern so that each tends to occupy all possible positions in the cross section, thereby equalizing flux linkages and reactances.


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# Glossary

**Loc-Trac®** Alpha Wire's registered trademark for a zipper tubing closure track which does not require any sealants to keep it closed.

**local area network (LAN)** A baseband or broadband interactive bidirectional communication system for voice, video or data use on a common cable medium.

**longitudinal shield** A tape shield, flat or corrugated, applied parallel to the axis of the core being shielded.

**longitudinal shrinkage** A term generally applied to shrink products denoting the discrete axial length lost through heating in order to obtain the recovered diameter.

**loop resistance** The total resistance of two conductors measured round trip from one end.

**loss** Energy dissipated without accomplishing useful work.

**loss factor** The product of the dissipation and dielectric constant of an insulating material.

**low loss** A cable that has relatively small power loss over long lengths.

**low-loss dielectric** An insulating material that has a relatively low dielectric loss, such as polyethylene or PTFE.

**LSZH** Low-smoke, zero halogen. An insulating material that contains no halogens or other potentially toxic materials and that generates very low levels of smoke when burned.

**magnetic field** The region within which a body or current experiences magnetic forces.

**magnetic flux** The rate of flow of magnetic energy across or through a surface (real or imaginary).

**magnetic noise** Caused by change in current level, e.g. AC powerline (creates magnetic field around that cable) this magnetic field causes the magnetic noise.

**mastic** A meltable coating used on the inside of some shrink products which, when heated, flows to encapsulate the interstitial air voids.

**MCM** Thousand circular mils.

**mega- (M)** A numerical prefix denoting 1,000,000 ($10^6$).

**meter** Unit of measurement, one meter equals 3.28 feet.

**mho** The unit of conductivity. The reciprocal of an ohm.

**MHz** Megahertz (one million cycles per second).

**micro-** A numerical prefix denoting one-millionth ($10^{-6}$).

**microwave** A short (usually less than 30 cm) electrical wave.

**mil** A unit used in measuring diameter of a wire or thickness of insulation over a conductor. One-one thousandth of an inch (.001").

**milli- (m)** Prefix meaning 1/1000 ($10^{-3}$).

**millimeter** One millimeter equals 0.03937 inches.

**MIL-SPEC** Military Specification. A document of the U.S. Government, issued to define a product that will be used in military end-use applications.

**mismatch** A termination having a different impedance than that for which a circuit or cable is designed.

**modulation** The coding of information onto the carrier frequency. Modulation means include (among others) amplitude, frequency, or phase pulse many forms of on-off digital coding.

**modulus of elasticity** The ratio of stress to strain in an elastic material.

**moisture absorption** The amount of moisture, in percentage, that a material will absorb under specified conditions.

**moisture resistance** The ability of a material to resist absorbing moisture from the air or when immersed in water.

**monomer** The basic chemical unit used in building a polymer.

**MSHA** Mine Safety and Health Administration.

**MTW** Machine tool wire.

**multiconductor** More than one conductor within a single cable complex.

**mutual capacitance** Capacitance between two conductors when all other conductors including ground are connected together and then regarded as an ignored ground.

**nano-** A numerical prefix denoting one-billionth ($10^{-9}$).

**nanosecond** One billionth of a second ($10^{-9}$ second).

**NBFU** National Board of Fire Underwriters.

**NBS** National Bureau of Standards.


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# Glossary

**NEC** National Electrical Code. A consensus standard published by the National Fire Protection Association (NFPA) and incorporated in OSHA regulations.

**NEMA** National Electrical Manufacturers Association.

**neoprene** Thermosetting material, chemically known as polychloroprene, with excellent flame retarding and abrasion resisting qualities used as a jacketing material.

**NFPA** National Fire Protection Association, group that publishes the NEC.

**noncontaminating PVC** A polyvinylchloride formulation, which does not produce electrical contamination.

**nylon** A group of polyamide polymers which are used for wire and cable jacketing.

**ODVA** Formerly Open DeviceNet Vendors Association.

**OFHC** oxygen-free, high conductivity copper. It has no residual deoxidant, 99.95% minimum copper content and an average annealed conductivity of 101%.

**ohm** Unit of resistance such that a constant current of one ampere produces a force of one Volt.

**Ohm's law** 1) volts = current x resistance; 2) current = volts/ resistance; 3) resistance = volts/ current.

**operating temperature range** Indicates the range of temperature at which the cable or tubing can be used without loss of its physical properties.

**OSHA** Occupational Safety and Health Act.

**outgassing** Percentage of a gas released during the combustion of insulation or jacketing material.

**overlap** The amount the trailing edge laps over the leading edge of a tape wrap.

**oxygen index** Percentage of oxygen necessary to support combustion in gas mixture.

**ozone** Form of oxygen, produced by discharge of electricity into air and harmful to certain insulation.

**pairing** The union of two insulated single conductors through twisting.

**PE** Polyethylene.

**percent conductivity** Conductivity of a material expressed as a percentage of that of copper.

**permittivity** See dielectric constant.

**phase** 360 degrees represents one cycle. A fraction of one cycle is called a phase.

**pick** Distance between two adjacent crossover points of braid filaments. The measurement in picks per inch indicates the degree of coverage.

**pico- (p)** A numerical prefix denoting one-millionth of one-millionth ($10^{-12}$).

**picofarad (pF)** One trillionth of a farad ($10^{-12}$).

**pitch** In flat cable, the nominal distance between the index edges of two adjacent conductors.

**pitch diameter** Diameter of a circle passing through the center of the conductors in any layer of a multiconductor cable.

**plastic deformation** Change in dimensions under load that is not recovered when the load is removed.

**plasticizer** A chemical agent added to plastics to make them softer and more pliable.

**plenum** The air return path of a central air handling system, either ductwork or open space over a dropped ceiling.

**plenum cable** Cable approved by Underwriters Laboratories for installation in plenums without the need for conduit.

**PLTC** Power-limited tray cable.

**point-to-point wiring** Continuous conductors terminated at each end to circuit destinations.

**polychloroprene** Chemical name of neoprene.

**polyester** Polyethylene terephthalate, which is used extensively in the production of a high-strength moisture-resistant film used as a cable core wrap.

**polyethylene** A family of insulations derived from the polymerization of ethylene gas and characterized by outstanding electrical properties, including high IR, low dielectric constant, and low dielectric loss across the frequency spectrum. Mechanically rugged, it resists abrasion and cold flow.

**polyhalocarbon** A general name for polymers containing halogen atoms. The halogens are fluorine, chlorine and bromine.

**polymer** A material of high molecular weight formed by the chemical union of monomers.


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# Glossary

**polyolefin** A family of thermoplastics based upon the unsaturated hydrocarbons known as olefins. When combined with butylene or styrene polymers, they form compounds such as polyethylene and polypropylene.

**polyurethane** A family of flexible, abrasion resistant jackets used for Xtra-Guard® 2 harsh environment cables.

**polyvinylchloride** A general purpose family of insulations whose basic constituent is polyvinylchloride or its copolymer with vinyl acetate. Plasticizers, stabilizers, pigments and fillers are added in lesser quantity to improve mechanical and/or electrical properties of this material.

**porosity** Multiple air voids in an insulation or jacket wall.

**potting** The sealing of a cable termination or other component with a liquid which thermosets into an elastomer.

**power** Rate at which work is done in moving current, measured in watts. Power = Pressure x Current.

**power factor** The ratio of resistance to impedance. The ratio of the actual power of an alternating current to apparent power. Mathematically, the cosine of the angle between the voltage applied and the current resulting.

**primary insulation** The first layer of nonconductive material applied over a conductor, whose prime function is to act as electrical barrier (insulation).

**PROFIBUS** An industrial automation fieldbus.

**propagation delay** Time required for an electrical wave to travel between two points on a transmission line.

**propagation time** Time required for a wave to travel between two points on a transmission line.

**propagation velocity** See Velocity of Propagation.

**psi** Pound per square inch.

**PTFE** Polytetrafluoroethylene.

**pulling eye** A device fastened to a cable to which a hook may be attached in order to pull the cable into or from a duct.

**pulse cable** A type of coaxial cable constructed to transmit repeated high voltage pulses without degradation.

**put-up and packaging** The method of packaging product. May be expressed in units or footage. May show 4 foot lengths, spools, coils or long lengths of wire, cable and tubing products.

**PV** Photovoltaic.

**PVC** Polyvinylchloride.

**PVDF** Polyvinylidene fluofide.

**QPL** Qualified parts list.

**quad** A four-conductor cable.

**rad** The unit of radian dose which is absorbed, equal to .01 joule/kilogram.

**radio frequency** One suitable for radio transmission, above 104 Hz and below 3 GHz.

**rated temperature** The maximum temperature at which an electric component can operate for extended periods without loss of its basic properties.

**rated voltage** The maximum voltage at which an electric component can operate for extended periods without undue degradation or safety hazard.

**REACH** Registration, Evaluation and Authorization of Chemical Substances. An EU framework for regulating the production and use of chemical substances.

**reactance** The opposition offered to the flow of alternation current by inductance or capacitance of a component or circuit.

**recovered diameter** Diameter of shrinkable products after heating has caused it to return to its extruded diameter.

**reference edge** Edge of cable or conductor from which measurements are made. Sometimes indicated by a thread, stripe, printing or other identifying mark. Conductors are usually identified by their sequential position from the reference edge, with number one conductor closest to the edge.

**reference junction** The junction of a thermocouple which is at a known reference temperature. Also known as the “cold” junction, it is usually located at the emf measuring device.

**reflection loss** The part of a signal which is lost due to reflection of power at a line discontinuity.

**reflow soldering** The process of connecting two solder-coated conductive surfaces by remelting of the solder to cause fusion.

**repeater** A transmitter and receiver combination used to regenerate a signal along the communications path.


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# Glossary

**resin** A synthetic organic material formed by the union (polymerization) of one or more monomers with one or more acids.

**resistance** A measure of the difficulty in moving electrical current through a medium when voltage is applied. It is measured in ohms.

**retractile cord** A cable that returns by its own stored energy from an extended condition to its original contracted form.

**RF** Radio frequency.

**RFI** Radio frequency interference.

**RG/U** Radio Government, Universal. RG is the military designation for coaxial cable in MIL-DTL-17 and U stands for "general utility."

**ribbon cable** A flat cable of individually insulated conductors lying parallel and held together by means of adhesive film laminate.

**ridge marker** One or more ridges running laterally along the outer surface of an insulated wire for purposes of identification.

**ringing out** The process of locating or identifying specific conductive paths by means of passing current through selected conductors.

**RJ-11** A 6-position modular plug and jack connector system.

**RJ-45** An 8-position modular plug and jack connector system, widely used in local- and wide-area networks.

**Rockwell hardness** A test for determining hardness in which a hardened steel ball or diamond point is pressed into the material under test.

**RoHS** Restriction of Hardardous Substances. A regulatory framework for restricting the amounts of hazardous substances, including lead, mercury, cadmium, haxavent chromium, PBB, and PBDE, in materials.

**root mean square (RMS)** The effective value of an alternating current or voltage.

**rope lay** Cable composed of central core surrounded by one or more layers of helically laid groups of wires. Usually extremely flexible.

**routing** The path followed by a cable or conductor.

**RS-232** A serial communications protocol using single-ended signaling for connecting data equipment at speeds up to 230.4 kb/s.

**RS-422** A serial communications protocol using differential signaling for connecting equipment, at speeds to 10 Mb/s.

**RS-423** A serial communications protocol using single-ended signaling for connecting data terminal equipment to data circuit-terminating equipment.

**RS-485** A serial communications protocol using balanced signaling for connecting data terminal equipment to data circuit-terminating equipment, at speeds to 10 Mb/s over long distances and in noisy environments.

**SAE** Society of Automotive Engineers.

**self-extinguishing** The characteristic of a material whose flame is extinguished after the igniting flame is removed.

**semiconductor** A material that has a resistance characteristic between that of insulators and conductors.

**semirigid PVC** A hard semi-flexible polyvinylchloride compound with low plasticizer content.

**separator** A layer of insulating material such as textile, paper, polyester, etc. Used to improve stripping qualities, flexibility, mechanical or electrical protection to the components.

**serve** A filament or group of filaments such as fibers or wires, wound around a central core.

**sheath** The outer covering or jacket of a multiconductor cable.

**shelf life** Length of time under specified conditions that a material retains its usability.

**shield** A metallic layer, commonly aluminum or copper, of tape, braid or spiral wrapped wire construction. Its primary purpose is to prevent electrostatic or electromagnetic interference between adjacent wires and external sources.

**shield coverage** The physical area of a cable that is actually covered by the shielding material and is expressed in percent.

**shield effectiveness** The relative ability of a shield to screen out undesirable signals.

**shrink ratio** The ratio of shrinkage of tubing inside diameter from the expanded size to the fully recovered dimension.

**shrink temperature** That temperature which effects complete recovery of a shrinkable product from the expanded state.


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# Glossary

**shrink tubing** Tubing which has been extruded, cross-linked and non cross-linked, and mechanically expanded which when reheated will return to its original diameter.

**signal** A current used to convey information, either digital, analog, audio or video.

**signal cable** A cable designed to carry current of usually less than one ampere per conductor.

**simplex** Mode of data transmission in one direction only. Usually on a two-wire facility.

**sintering** A method of heat sealing. Fusion of a spirally applied tape wrap jacket by the use of high heat to a homogenous continuum. Usually employed for fluorocarbon, non-extrudable materials.

**SIS** XLP switchboard wire.

**skin effect** The phenomenon in which the depth of penetration of electric currents into a conductor decreases as the frequency increases.

**sleeving** A braided, extruded or woven tube.

**SNR** Signal-to-noise ratio.

**soldering sleeves** Shrinkable tubing with a solder preform used for highest reliability soldering connections or shield grounding.

**solid conductor** A conductor consisting of a single wire.

**span** In flat cables, the distance from the reference edge of the first conductor to the reference edge of the last conductor (in cables having flat conductors), or the distance between the centers of the first and last conductors (in cables having round conductors), expressed in inches or centimeters.

**spark test** A test designed to locate imperfections (usually pin-holes) in the insulation of a wire or cable by application of a voltage for a very short period of time while the wire is being drawn through the electrode field.

**specific gravity** The ratio of the density (mass per unit volume) of a material to that of water.

**specific inductive capacity (SIC)** See dielectric constant.

**spiral wrap** The helical wrap of a material over a core.

**splice** A mechanical device or fusion process that permanently bonds two fibers together without a connector producing extremely low loss.

**spool** Circular container on which wire is wound for storage or transit normally refers to sizes smaller than 18" in diameter.

**stability factor** The difference between the percentage power factor at 80 volts/mil and at 40 volts/mil measured on wire immersed in water at 75°C for a specified time.

**static condition** Used to denote the environmental conditions of an installed cable rather than the conditions existing during cable installation.

**STP** Shielded twisted pair cable.

**strand** A single uninsulated wire.

**stranded conductor** A conductor composed of single solid wires twisted together, either singly or in groups.

**strip force** The force required to remove a small section of insulating material from the conductor it covers.

**structural return loss (SRL)** Expresses the amount of signal lost in negative terms, and occurs when signals reflect back to points of transmission.

**suggested working voltage** AC voltage that can be applied between adjacent conductors.

**Supra-Shield®** Alpha Wire's trade name for foil/braid combination used for maximum shielding effectiveness.

**surface resistivity** The resistance of a material between two opposite sides of a unit square of its surface. It is usually expressed in ohms.

**surge** A temporary, large increase in the voltage or current in an electric circuit or cable.

**sweep test** A method to determine the frequency response of a cable, by generating an RF voltage whose frequency is varied at a rapid constant rate over a given range.

**switchboard cable** The cable used within and between the central office main frames and the switchboard.

**tank test** A voltage dielectric test in which the test sample is submerged in water and voltage is applied between the conductor and water as ground.


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# Glossary

**tape wrap** A spirally applied tape over an insulated or uninsulated wire.

**TC** Tray cable.

**TC-ER** Tray cable, extended run.

**tear strength** The force required to initiate or continue a tear in a material under specified conditions.

**temperature coefficient of resistance** The amount of resistance change of material per degree of temperature rise.

**temperature rating** The maximum and minimum temperature at which an insulating material may be used in continuous operation without loss of its basic properties.

**Tempest** Classified procedure which details the complex measurement of the combined reduction of all electromagnetic emissions from specified equipment.

**tensile strength** The pull stress required to break a given specimen.

**TFE** Polytetrafluoroethylene.

**thermal shock** A test to determine the ability of a material to withstand heat and cold by subjecting it to rapid and wide changes in temperature.

**thermocouple** A device for measuring temperature, at the point where two dissimilar metals are joined, and EMF output is generated when heated.

**thermocouple element** A thermocouple designed to be used as part of an assembly, but without associated parts such as the terminal block, connecting head, or protecting tube.

**thermocouple extension cable** A cable comprised of one or more twisted thermocouple extension wires under a common sheath.

**thermocouple extension wire** A pair of wires of dissimilar alloys having such EMF-temperature characteristics complimenting the thermocouple which is intended to be used, such that when properly connected allows the EMF to be faithfully transmitted to the reference junction.

**thermocouple wire (grade)** A pair of wires of dissimilar alloys having EMF-temperature characteristics calibrated to higher temperature levels than the extension type of thermocouple wire. Unlike the thermocouple extension wire, this wire may be employed as the thermocouple hot junction in addition to serving as the entire wire connection between hot and cold reference junctions.

**thermoplastic** A material which softens when heated or reheated and becomes firm on cooling.

**thermoset** A material which hardens or sets by heat, chemical or radiation cross-linking techniques and which, once set, cannot be resoftened by heating.

**THHN** 90°C, 600 volt, nylon jacketing building wire for dry locations.

**THWN** 75°C, 600 volt, nylon jacketed building wire for wet and dry locations.

**tinned copper** Tin coating added to copper to aid in soldering and inhibit corrosion.

**topcoat conductor** A conductor construction in which bare copper wires are first stranded and then coated with tin.

**transformer** A device for converting AC current from one voltage to another either “stepped up” or “stepped down.”

**transmission cable** Two or more transmission lines. If the structure is flat, it is sometimes called flat transmission cable to differentiate it from a round structure such as a jacketed group of coaxial cables. See transmission line.

**transmission line** A signal-carrying circuit with controlled electrical characteristics used to transmit high-frequency or narrow-pulse signals.

**transmission loss** The decrease or loss in power during transmission of energy from one point to another. Usually expressed in decibels.

**tray** A cable tray system is a unit or assembly of units or sections, and associated fittings, made of metal or other noncombustible materials forming a rigid structural system used to support cables. Cable tray systems (previously termed continuous rigid cable supports) include ladders, troughs, channels, solid bottom trays, and similar structures.

**tray cable** A factory-assembled multiconductor control, signal and power cable specifically approved under the National Electrical Code for installation of trays.

**triad** A group of 3 insulated conductors twisted together without (or with) a sheath overall. Usually color coded for identification. Also called triplex.

**triaxial cable** A cable construction having three coincident axes, such as conductor, first shield and second shield all insulated from one another.


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# Glossary

**tubing** A tube of extruded non-supported plastic or metallic material.

**twinning** Synonymous with pairing.

**UF** Thermoplastic underground feeder and branch circuit cable.

**UHF** Ultra high frequency, 300 to 3000 MHz.

**UL** Underwriters Laboratories, a nonprofit, independent organization, which operates a listing service for electrical and electronic materials and equipment.

**UN** Ungrounded neutral (refers to a type of power system).

**unbalanced circuit** A transmission line in which voltages on the two conductors are unequal with respect to ground; e.g. a coaxial cable.

**unilay** A conductor constructed with a central core surrounded by more than one layer of helically-laid strands, with all layers having a common length and direction of lay.

**UTP** Unshielded twisted pair cable.

**UV** Ultraviolet.

**VDE** German Society of Engineers that establishes standards and testing requirements.

**velocity of propagation** The speed of an electrical signal down a length of cable compared to speed in free space expressed as a percent. It is the reciprocal of the square root of the dielectric constant of the cable insulation.

**VFD** Variable-frequency drive.

**VHF** Very high frequency, 30 to 300 MHz.

**volt** A unit of electrical pressure. One volt is the electrical pressure that will cause one ampere of current to flow through one ohm of resistance.

**voltage** The term most often used in place of electromotive force, potential, potential difference, or voltage drop to designate the electric pressure that exists between two points and is capable of producing a current when a closed circuit is connected between two points.

**voltage drop** The amount of voltage loss from original input to point of electrical device.

**voltage rating** The highest voltage that may be continuously applied to a wire in conformance with standards or specifications.

**voltage standing wave ratio (VSWR)** The ratio of the maximum effective voltage to the minimum effective voltage measured along the length of a mismatched radio frequency transmission line.

**volume resistivity (specific insulation resistance)** The electrical resistance between opposite faces of a 1 cm cube.

**VSWR** Voltage standing wave ratio.

**vulcanize** To fuse under heat and pressure.

**wall thickness** The thickness of the applied insulation or jacket material.

**water absorption** Water by percent weight absorbed by a material after a given immersion period.

**Watt (W)** A unit of electric power. The watt is the power required to do work at the rate of one joule per second.

**waveguide** Hollow pipe (round or rectangular) used as transmission line for the propagation of microwaves.

**wavelength** The distance, measured in the direction of propagation, of a repetitive electrical pulse or waveform between two successive points.

**wicking** The longitudinal flow of a liquid in a wire or cable due to capillary action.

**wire** A slender rod or filament of drawn metal.

**WTTC** Wind turbine tray cable.

**XLPE** Cross-linked polyethylene.

**Xtra-Guard®** The Alpha Wire trade name for cable constructions designed for use in virtually any type of environment.

**yield strength** The minimum stress at which a material will start to physically deform without further increase in load.

**Zipper Tubing™** Alpha Wire's trade name for a harnessing/jacketing material containing a zippertrack type closure. The zipper arrangement allows installation with no need to disconnect previously wired schemes for its installation. (See Loc-Trac®).


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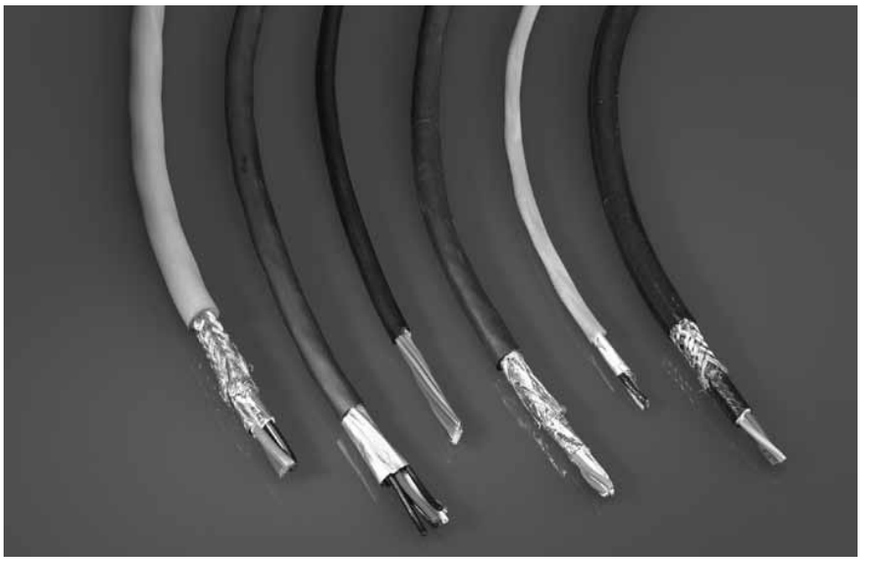

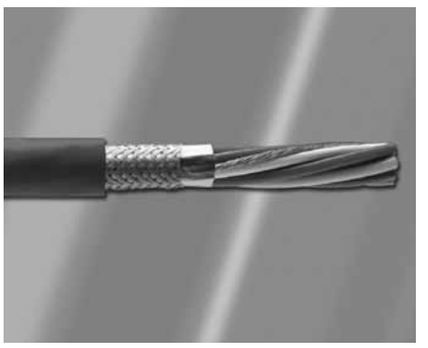

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