

HOLLINGSWORTH SOLDERLESS TERMINALS



IPI

INTERCONNECTION PRODUCTS INCORPORATED



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Hollingsworth

**Over 25 years of experience
in serving the Military and
commercial terminal user.**

The Hollingsworth Company is one of the leading manufacturers in the world of solderless terminals. Hollingsworth also offers a complete line of automatic, pneumatic, and hand ratchet crimping tools and associated equipment, including tape mounted terminals for ease of handling.

This catalog reflects our complete line of standard products under section numbers for quick reference.

NOTE: *Part numbers with a shaded background indicate the item is a "preferred part" and is readily available.*

Hollingsworth Design Service

Along with standard terminals, we welcome your inquiry to develop terminals to your special design requirements... such deviations as color changes, stud size, plating, and insulation material.

In addition, Hollingsworth offers a design capability to develop maintenance kits to your special requirements. Typically, these kits supply a pre-determined quantity of designated terminals, with the appropriate tools for your equipment support.

We look forward to the opportunity to serve you.



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How to use your catalog

This catalog is organized for your convenience in specifying and ordering Hollingsworth Solderless Terminals. The table of Contents lists major sections and highlights the content of each. Each section is preceded by an explanation of the abbreviations and types of terminals contained within that section. (For your guidance a review of terminal types and construction advantages are presented on pages 2 and 3.) Sections are organized by wire size, tongue type and barrel style.

Standard insulation materials, color coding, terminal material and thickness, CMA ranges, inside barrel diameters, insulation diameters and the recommended Hollingsworth Hand Tool or die for the Hollingsworth H270 automatic crimping machine are indicated in the tables. All dimensional data is shown in both decimal inches and millimetres. Where applicable, optional insulation materials are indicated and can be ordered by adding the appropriate suffix to the catalog number.

Other part number suffixes are as follows:

- B**—Brazen barrel
- F**—Flared insulation (allows heavier wire insulation to be used)
- G**—Part is made with a longer tongue (provides greater clearance between stud hole and barrel)
- S**—Short barrel (.17"/4.32mm). These parts may be ordered where a space limitation exists.

Most terminals and splices are available tape mounted for fast automatic crimping, as indicated by the note on the applicable pages. You need only add a "T" suffix to the catalog number to order on tape.

More reliable crimping is assured when you use the proper tool—one designed to match the size and barrel style you are crimping. A complete review of all Hollingsworth tools—hand and automatic—is shown on pages 62-69.

For your convenience, Hollingsworth wiring accessories are also shown in the catalog: Easy-Ty Wire and Cable Wraps and Polyolefin Heat Shrinkable Tubing.

The last section of this catalog has a numerical listing of all cataloged parts according to page number.

If you have any questions regarding Hollingsworth products, the back cover of this catalog will provide you with the telephone number of your closest Hollingsworth location.

Specifications subject to change without notice.










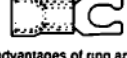
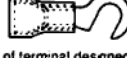


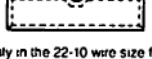


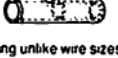

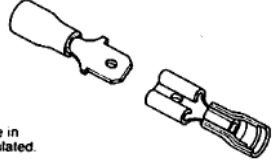


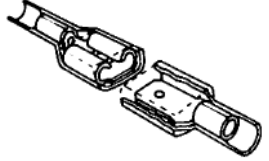
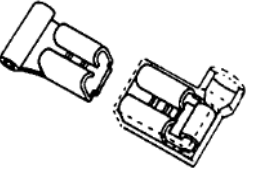
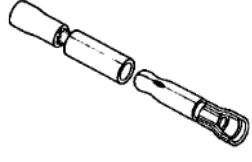
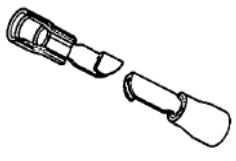

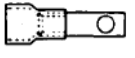

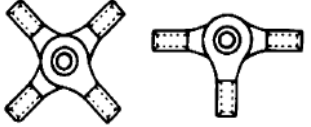
NOTE: Part Numbers with a shaded background indicate the item is a "Preferred Part" and is readily available.

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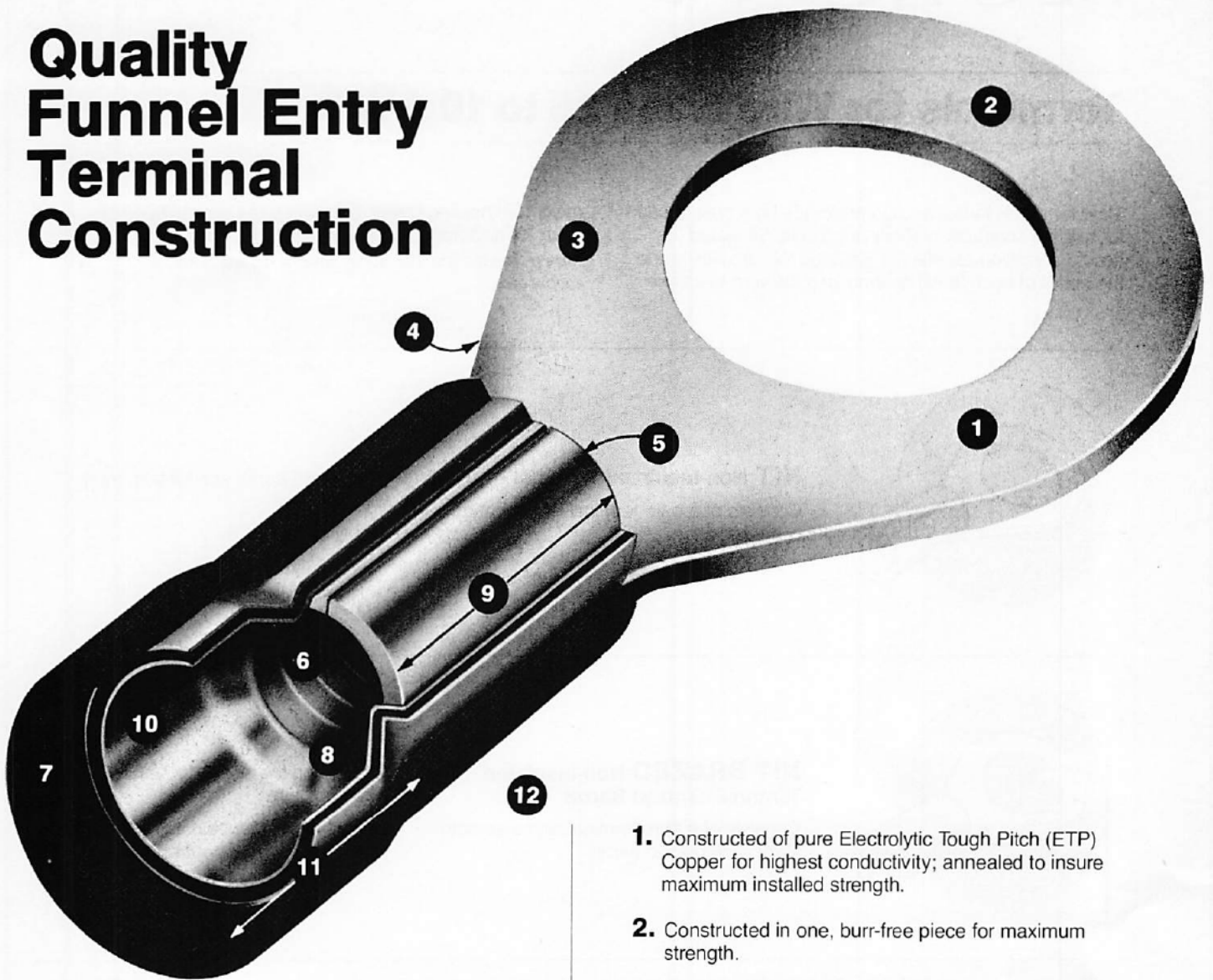
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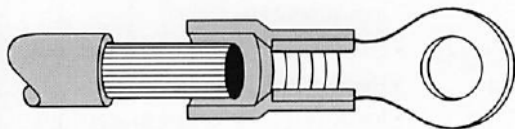
Terminal Selection Guide

<p>RING TERMINAL</p>  <p>Most secure type of tongue style. Attaching screw or stud must be inserted through hole in the tongue; terminal cannot fall off if nut loosens. Available in wire sizes 26 AWG through 250 MCM. Insulated and non-insulated.</p>	<p>HIGH TEMPERATURE RING</p>  <p>For high temperature applications; maximum operating temperature for these terminals is either 650 F or 900 F. Non-insulated only. Available in wire sizes 22 AWG through 2AWG.</p>	<p>INSULATION RESTRICTION RING</p>  <p>Developed primarily for military applications. Construction of terminal eliminates any wire insulation from entering the barrel. Produced for specific wire sizes rather than range of wire sizes. Available in wire sizes 26 AWG through 10 AWG. Insulated only.</p>	<p>OFFSET RING</p>  <p>Designed for stacking one on top of another or special space limitation applications. Available in 14-12 AWG wire size only. Insulated and non-insulated.</p>
<p>HEAVY DUTY RING</p>  <p>Made of heavier than normal gauge material for heavy duty applications (commonly used by railroads). Available in 20 AWG through 14 AWG wire sizes. Insulated and non-insulated.</p>	<p>SPADE TERMINAL</p>  <p>Faster to install than ring terminals; no need to remove nut from screw or stud post. Insulated and non-insulated. Available in 22 AWG through 10 AWG wire sizes.</p>	<p>BLOCK SPADE</p>  <p>For use in terminal blocks or barrier strips. Tongue sides are flat so they lay flush against barrier portion of terminal block, providing a secure "locked-in" connection. Available in 22 AWG through 10 AWG wire sizes. Insulated and non-insulated.</p>	<p>FLANGED SPADE</p>  <p>Same fast installation as spade terminal, but ends of tongue are turned up providing "locking" mechanism to help maintain connection should screw loosen. Insulated and non-insulated. Available in 22 AWG through 10 AWG wire sizes.</p>
<p>SPRING SPADE</p>  <p>Provides connection security of ring with insertion ease of spade. Small projection inside tongue forks provide snap-on mechanism "locking" terminal in place like ring terminal. Extra force required to remove—will not fall off stud or screw. Available in 22 AWG through 10 AWG wire sizes. Insulated and non-insulated.</p>	<p>MINI SPRING SPADE</p>  <p>Combines advantages of ring and spade terminals, but smaller in size than regular spring spade for tight spaces and some makes of terminal blocks. Insulated and non-insulated. Available in 22 AWG through 10 AWG wire sizes.</p>	<p>HOOK TERMINAL</p>  <p>Another style of terminal designed to lessen installation time. If properly installed, it is more secure than spade or block spade, but can come off if stud becomes loose. Available in 22 AWG through 10 AWG wire sizes. Insulated and non-insulated.</p>	<p>PARALLEL</p>  <p>Designed for splicing or connecting wires together rather than termination. Inserted wires overlap, only one central crimp is required. Especially useful when solid and stranded wires must be joined. Insulated and non-insulated. Available in 26 AWG through 4 0 AWG wire sizes.</p>
<p>BUTT CONNECTOR</p>  <p>For splicing or connecting wires together. Wires are inserted from either end and butt against a built-in wire stop. Butt connector is crimped in two places; one crimp for each wire. Available in 22 AWG through 500 MCM. Insulated and non-insulated.</p>	<p>HIGH TEMPERATURE BUTT CONNECTOR</p>  <p>Offered only in the 22-10 wire size for high temperature applications. Butt connectors are available with maximum operating temperature ratings of either 650 F or 900 F. Non-insulated only.</p>	<p>WINDOW BUTT CONNECTOR</p>  <p>Same application as regular butt connector, but portion above built-in wire stop is cut away providing inspection window. See-through Nylon is used for insulated window butt connectors. Insulated and non-insulated. Available in 26 through 10 AWG wire sizes.</p>	<p>OVAL BUTT CONNECTOR</p>  <p>Same application as regular insulated butt connector, but both ends of insulation are oval to accept multiple wire combinations. Available in 22 AWG through 10 AWG wire sizes. Insulated only.</p>
<p>STEP-DOWN BUTT CONNECTOR</p>  <p>Used for joining unlike wire sizes together. Each end of the butt connector accepts a different wire range, but one tool crimps both ends. Available in four wire range combinations from 22 AWG through 6 AWG wire sizes. Insulated and non-insulated.</p>	<p>PIGTAIL CONNECTOR</p>  <p>Can be used as splice, wire butt, parallel or dead-end cap. Each size has given set of wire combinations it will accept. Single crimp provides reliable connection. Pigtails cannot "back off" the wires as screw-on type connector can. Insulated only. Available in 22 AWG through 8 AWG wire sizes. Radiation resistant pigtails also available.</p>	<p>MALE AND FEMALE SLIP-ON TERMINALS</p>  <p>Not attached by use of a stud, instead tongue of female part slips on mating male part or tab. Provides quick and easy disconnection of wires. Slip-On terminals have excellent holding force due to detents and rolled edges on tongue of female. Available in 26 AWG through 10 AWG sizes. Insulated and non-insulated.</p>	
<p>HIGH TEMPERATURE MALE AND FEMALE SLIP-ON TERMINALS</p>  <p>For high temperature applications; maximum operating temperature for these terminals is either 650 F or 900 F. Non-insulated only. Available in 18/14 AWG and 16/14 AWG wire sizes.</p>	<p>(FISO) FULLY INSULATED FEMALE SLIP-ON</p>  <p>Same application as female slip-ons, but terminal is fully encased in insulating material. Eliminates time-consuming and expensive post insulation procedures. No fear of shorting or flashover. Available in 26 AWG through 10 AWG wire sizes. Insulated only.</p>	<p>MALE AND FEMALE NYLON COUPLERS</p>  <p>Female housing fits entirely inside male to form fully insulated in-line splice. Molded nylon parts let you break and re-connect circuit without disturbing insulation. Eliminates shorting and flashover. Available in 22/18 and 16/14 AWG wire sizes only. Insulated only.</p>	
<p>FLAG SLIP-ON TERMINALS</p>  <p>Right angle parts provide advantage of slip-on terminal while giving design and packaging flexibility where space is a limitation. Available in 22 AWG through 10 AWG wire sizes. Insulated and non-insulated.</p>	<p>PLUGS AND RECEPTACLES</p>  <p>Advantages similar to slip-on terminal. Provides reliable in-line connection. Parts are made to close tolerances to produce holding friction when parts are mated. Insulated and non-insulated. Available in 22 AWG through 14 AWG wire sizes.</p>		
<p>KNIFE DISCONNECT</p>  <p>Always used in pairs, tongue is shaped so two like parts are locked together. Used as connectors or splices; has advantage of quick disconnect. Plus, the harder the pull, the tighter the connection. Available in 22 AWG through 10 AWG wire sizes. Insulated and non-insulated.</p>	<p>MALE TAB</p>  <p>Used in same manner as male slip-on; differs from straight tab since it does not have a barrel. Has mounting hole for rivet or screw. Available in straight, bent or right angle form. Available up to 12 pairs per part. Non-insulated only. .032" x .250" size.</p>		
<p>STRAIGHT TAB</p>  <p>Straight tab has a mounting hole for rivet or screw. Insulated and non-insulated. Available in 18/14 AWG wire size only.</p>	<p>WIRE PINS</p>  <p>Designed for installation in compression blocks. Commonly used in Europe and for terminating stranded wire. Available in 22 AWG through 10 AWG wire sizes. Insulated and non-insulated.</p>	<p>3 AND 4 WAY CONNECTORS</p>  <p>Three or four ring terminals tightly riveted together through the stud hole. Remaining stud hole diameter .160"/4.06mm. Provides multiple wire connection. Insulated and non-insulated. Available in 22 AWG through 10 AWG wire sizes.</p>	

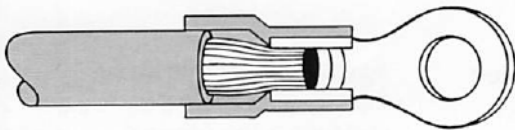
Quality Funnel Entry Terminal Construction



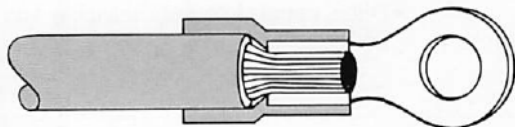
FUNNEL ENTRY SPEEDS UP PRODUCTION
INCREASES RELIABILITY



1. "Funnel Entry" design guides wire into position. (Funnel FIT terminal illustrated.)



2. No wire strand turnback or hang-up as wire is inserted.



3. Wire in place, ready for crimping. Fast, positive installation.

- 1.** Constructed of pure Electrolytic Tough Pitch (ETP) Copper for highest conductivity; annealed to insure maximum installed strength.
- 2.** Constructed in one, burr-free piece for maximum strength.
- 3.** Electro-Tin plated for maximum corrosion resistance.
- 4.** Wire range clearly stamped on each terminal for positive identification.
- 5.** Constructed with open end to allow visual inspection of wire location before and after crimp.
- 6.** Serrated with multiple "V" grooves for maximum holding power and current flow.
- 7.** Approved color coded insulation for easy wire size identification.
- 8.** "Funnel Entry" design actually groups wire strands together for fast, easy, positive entry into terminal barrel. This eliminates wire strand hang-up and positions wire perfectly for a more positive crimp.
- 9.** Electrical crimp area.
- 10.** Insulation gripping sleeve.
- 11.** Mechanical/Insulation crimp area relieves stress from electrical crimp and provides wire insulation support.
- 12.** Illustrated 3-piece "Funnel FIIG" is the highest quality terminal in the marketplace today.



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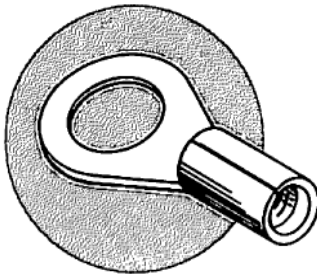
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Terminals for Wire Sizes 26 to 10 AWG

Most terminals in this section are made from pure copper* for highest conductivity. They are electro-tin plated to assure corrosion resistance. Serrated "V" grooves inside the barrel of each terminal firmly grip the wire to assure

maximum holding power, and wire sizes are stamped on each terminal for quick identification.

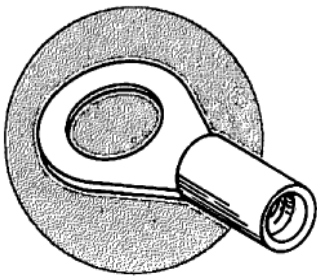
**Spring Spades and Mini Spring Spades are made from a copper alloy.*



NIT Non-Insulated Terminal

Consists of a bare terminal with a butted seam barrel.

- Chamfered barrel end for fast, easy wire insertion.
- Highly economical



NIT BRAZED Non-Insulated Terminal-Brazed Barrel

Consists of a bare terminal with a smooth, silver alloy brazed barrel.

- Chamfered barrel end for fast, easy wire insertion
- Brazed barrel can be crimped anywhere (even on seam) without splitting



FUNNEL FIT Fixed Insulated Terminal-Funnel Entry

An assembly of a bare terminal with a tightly fitted funneled insulating sleeve made of PVC.

- Funneled insulation facilitates wire entry,

speeds production and will accept heavily insulated wire.

- Offers excellent insulating qualities
- Resists minor vibrations
- Insulation color coded to standard commercial specifications



FUNNEL FIIG Fixed Insulated Insulation Grip-Funnel Entry

An assembly of a bare terminal, fitted with a funneled copper insulation gripping sleeve and a tightly fitting insulation sleeve made from PVC or nylon

- Copper sleeve firmly grips wire to protect

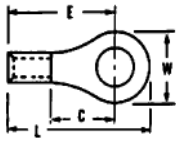
against high vibration failures

- Insulation color coded to standard commercial specifications
- Funnel Entry barrel facilitates wire entry, speeds production and will accept heavily insulated wire.
- Offers utmost in quality, reliability and performance

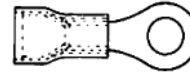
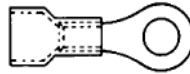
26/22 Rings

CMA Range 202-810
Barrel Inside Diameter .033"/.838 mm

WIRE SIZE



MATERIAL: COPPER
THICKNESS: .020"/.508 mm



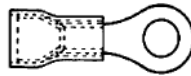
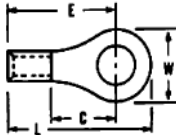
BASIC DIMENSIONS					NON-INSULATED				INSULATED (YELLOW NYLON)				YELLOW (VINYL)						
Stud Size	W In.	W mm	C In.	C mm	NIT	E In.	E mm	L In.	L mm	Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
0	.14	3.56	.17	4.32	R26201	.34	8.64	.41	10.41	R26211N	.52	13.21	.59	14.99	XR26241	.63	16.00	.70	17.78
2	.14	3.56	.17	4.32	R26202	.34	8.64	.41	10.41	R26212N	.52	13.21	.59	14.99	XR26242	.63	16.00	.70	17.78
4	.20	5.08	.22	5.59	R26203	.40	10.16	.50	12.70	R26213N	.58	14.73	.68	17.27	XR26243	.69	17.53	.79	20.07
6	.20	5.08	.22	5.59	R26204	.40	10.16	.50	12.70	R26214N	.58	14.73	.68	17.27	XR26244	.69	17.53	.79	20.07
6	.25	6.35	.29	7.37	R26205	.46	11.68	.59	14.99	R26215N	.65	16.51	.77	19.56	XR26245	.76	19.30	.88	22.35
8	.25	6.35	.29	7.37	R26206	.46	11.68	.59	14.99	R26216N	.65	16.51	.77	19.56	XR26246	.76	19.30	.88	22.35
8	.32	8.13	.29	7.37	R26208	.46	11.68	.62	15.75	R26218N	.64	16.26	.80	20.32	XR26248	.75	19.05	.91	23.11
10	.25	6.35	.29	7.37	R26207	.46	11.68	.59	14.99	R26217N	.65	16.51	.77	19.56	XR26247	.76	19.30	.88	22.35
10	.32	8.13	.29	7.37	R26209	.46	11.68	.62	15.75	R26219N	.64	16.26	.80	20.32	XR26249	.75	19.05	.91	23.11
Hand Tool / H270 Die					27032A				H8A				H8A						



26/24 Rings

CMA Range 202-320
Barrel Inside Diameter .027"/.686 mm

WIRE SIZE



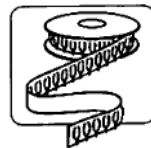
MATERIAL: COPPER
THICKNESS: .023"/.584 mm

BASIC DIMENSIONS					INSULATED (YELLOW VINYL)				
Stud Size	W In.	W mm	C In.	C mm	Funnel FIG	E In.	E mm	L In.	L mm
2	.14	3.56	.17	4.32	XR26336	.62	15.75	.69	17.53
4	.20	5.08	.22	5.59	XR26337	.65	16.51	.76	19.30
6	.25	6.35	.29	7.37	XR26338	.73	18.54	.86	21.84
8	.32	8.13	.29	7.37	XR26339	.74	18.79	.89	22.61
10	.32	8.13	.29	7.37	XR26340	.74	18.79	.89	22.61
Hand Tool					H7B				

N*

N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XR26241N.

For metric dimensions of stud sizes, see page 43.

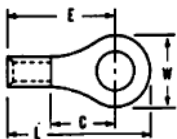


All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: R26201-T or XR26241N-T.

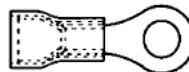
24/20 Rings

CMA Range 320-1290
Barrel Inside Diameter .044"/.111 mm

WIRE SIZE



MATERIAL: COPPER
THICKNESS: .023"/.584 mm



BASIC DIMENSIONS					NON-INSULATED				INSULATED (CLEAR NYLON)					
Stud Size	W In.	W mm	C In.	C mm	NIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
2	.28	7.11	.27	6.86	R54202	.45	11.43	.59	14.99	XR24202N	.74	18.80	.88	22.35
4	.28	7.11	.27	6.86	R54204	.45	11.43	.59	14.99	XR24204N	.74	18.80	.88	22.35
6	.28	7.11	.27	6.86	R54206	.45	11.43	.59	14.99	XR24206N	.74	18.80	.88	22.35
8	.28	7.11	.27	6.86	R54208	.45	11.43	.59	14.99	XR24208N	.74	18.80	.88	22.35
10	.28	7.11	.27	6.86	R54210	.45	11.43	.59	14.99	XR24210N	.74	18.80	.88	22.35
Hand Tool / H270 Die					27032A				H8A					



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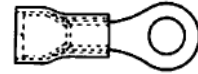
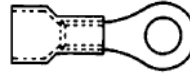
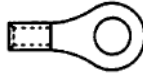
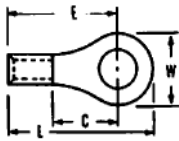
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22/16 Rings

CMA Range 509-3260
Barrel Inside Diameter .061"/1.55 mm

WIRE SIZE



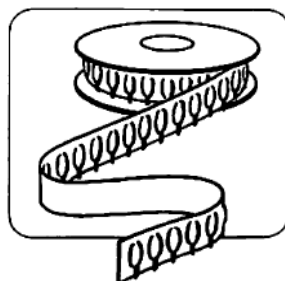
MATERIAL: COPPER THICKNESS: .030"/.762 mm

BASIC DIMENSIONS				NON-INSULATED					INSULATED (RED VINYL)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .160"/4.06 mm				INSUL. DIA. .146"/3.71 mm					
											Funnel FT	E In.	E mm	L In.	L mm	Funnel Flg	E In.	E mm	L In.	L mm
2	.22	5.59	.16	4.06	R4103	R4103B	.44	11.18	.55	13.97	R4140F	.70	17.78	.81	20.57					
2	.22	5.59	.16	4.06	R4103S	R4103SB	.34	8.64	.45	11.43	R4140SF	.63	16.00	.74	18.80	XR1879S	.63	16.00	.74	18.80
4	.18	4.57	.16	4.06	R4340	R4340B	.42	10.69	.53	13.46	R4355F	.68	17.27	.79	20.07					
4	.18	4.57	.16	4.06	R4340S	R4340SB	.32	8.13	.43	10.92	R4355SF	.62	15.75	.72	18.29	XR1942S	.61	15.49	.72	18.29
4	.22	5.59	.16	4.06	R4104	R4104B	.44	11.18	.55	13.97	R4141F	.70	17.78	.81	20.57					
4	.22	5.59	.16	4.06	R4104S	R4104SB	.34	8.64	.45	11.43	R4141SF	.63	16.00	.74	18.80	XR1880S	.63	16.00	.74	18.80
4	.28	7.11	.32	8.13	R4261	R4261B	.59	14.99	.73	18.54	R4265F	.86	21.84	1.00	25.40					
4	.28	7.11	.32	8.13	R4261S	R4261SB	.50	12.70	.64	16.26	R4265SF	.79	20.07	.93	23.62	XR1856S	.79	20.07	.93	23.62
6	.22	5.59	.16	4.06	R4105	R4105B	.44	11.18	.55	13.97	R4142F	.70	17.78	.81	20.57					
6	.22	5.59	.16	4.06	R4105S	R4105SB	.34	8.64	.45	11.43	R4142SF	.63	16.00	.74	18.80	XR1881S	.63	16.00	.74	18.80
6	.25	6.35	.32	8.13	R4110	R4110B	.59	14.99	.73	18.54	R4147F	.86	21.84	.98	24.89					
6	.25	6.35	.32	8.13	R4110S	R4110SB	.50	12.70	.62	15.75	R4147SF	.79	20.07	.91	23.11	XR1885S	.79	20.07	.92	23.37
6	.28	7.11	.32	8.13	R4262	R4262B	.59	14.99	.73	18.54	R4266F	.86	21.84	1.00	25.40					
6	.28	7.11	.32	8.13	R4262S	R4262SB	.50	12.70	.64	16.26	R4266SF	.79	20.07	.93	23.62	XR1857S	.79	20.07	.93	23.62
8	.22	5.59	.16	4.06	R4193	R4193B	.43	10.92	.55	13.97	R4206F	.70	17.78	.81	20.57					
8	.22	5.59	.16	4.06	R4193S	R4193SB	.33	8.38	.45	11.43	R4206SF	.63	16.00	.74	18.80	XR1882S	.63	16.00	.74	18.80
8	.28	7.11	.32	8.13	R4263	R4263B	.59	14.99	.73	18.54	R4267F	.86	21.84	1.00	25.40					
8	.28	7.11	.32	8.13	R4263S	R4263SB	.50	12.70	.64	16.26	R4267SF	.79	20.07	.93	23.62	XR1858S	.79	20.07	.93	23.62
8	.31	7.87	.32	8.13	R4111	R4111B	.60	15.24	.75	19.05	R4148F	.86	21.84	1.01	25.65					
8	.31	7.87	.32	8.13	R4111S	R4111SB	.50	12.70	.65	16.51	R4148SF	.79	20.07	.94	23.88	XR1890S	.79	20.07	.94	23.88
10	.28	7.11	.32	8.13	R4264	R4264B	.59	14.99	.73	18.54	R4268F	.86	21.84	1.00	25.40					
10	.28	7.11	.32	8.13	R4264S	R4264SB	.50	12.70	.64	16.26	R4268SF	.79	20.07	.93	23.62	XR1859S	.79	20.07	.93	23.62
10	.31	7.87	.32	8.13	R4112	R4112B	.60	15.24	.75	19.05	R4149F	.86	21.84	1.01	25.65					
10	.31	7.87	.32	8.13	R4112S	R4112SB	.50	12.70	.65	16.51	R4149SF	.79	20.07	.94	23.88	XR1891S	.79	20.07	.94	23.88
1/4	.47	11.94	.44	11.18	R4113	R4113B	.71	18.03	.94	23.88	R4150F	.97	24.64	1.21	30.73					
1/4	.47	11.94	.44	11.18	R4113S	R4113SB	.61	15.49	.85	21.59	R4150SF	.90	22.86	1.14	28.96	XR1894S	.90	22.86	1.14	28.96
5/16	.47	11.94	.44	11.18	R4114	R4114B	.71	18.03	.94	23.88	R4151F	.97	24.64	1.21	30.73					
5/16	.47	11.94	.44	11.18	R4114S	R4114SB	.61	15.49	.85	21.59	R4151SF	.90	22.86	1.14	28.96	XR1895S	.90	22.86	1.14	28.96
3/8	.53	13.46	.44	11.18	R4115	R4115B	.71	18.03	.97	24.64	R4152F	.97	24.64	1.24	31.50					
3/8	.53	13.46	.44	11.18	R4115S	R4115SB	.61	15.49	.88	22.35	R4152SF	.90	22.86	1.17	29.72	XR1896S	.89	22.61	1.16	29.46
Hand Tool					H4A	H4A					H7B				H7B					



N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XR1879SN.

For metric dimensions of stud sizes, see page 43.

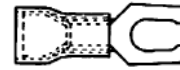
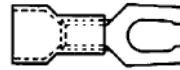
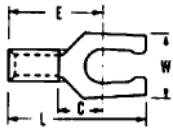


All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: R4103-T or XR1879SN-T.

22/16 Spring Spades

WIRE SIZE

CMA Range 509-3260
Barrel Inside Diameter .061"/1.55 mm



MATERIAL: COPPER ALLOY THICKNESS: .030"/.762 mm

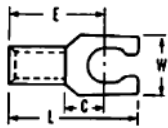
BASIC DIMENSIONS					NON-INSULATED					INSULATED (RED VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .160"/4.06 mm					INSUL. DIA. .146"/3.71 mm				
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.25	6.35	.26	6.60	SS20923S	SS20923SB	.43	10.92	.67	17.02	SS20927SF	.73	18.54	.96	24.38	XSS20937S	.72	18.29	.95	24.13
6	.28	7.11	.26	6.60	SS20924S	SS20924SB	.43	10.92	.67	17.02	SS20928SF	.73	18.54	.96	24.38	XSS20938S	.72	18.29	.95	24.13
8	.28	7.11	.26	6.60	SS20925S	SS20925SB	.43	10.92	.67	17.02	SS20929SF	.73	18.54	.96	24.38	XSS20939S	.72	18.29	.95	24.13
10	.33	8.38	.26	6.60	SS20926S	SS20926SB	.43	10.92	.67	17.02	SS20930SF	.73	18.54	.96	24.38	XSS20940S	.72	18.29	.95	24.13
Hand Tool					H4A	H4A	H7B					H7B								



22/16 Mini Spring Spades

WIRE SIZE

CMA Range 509-3260 • Barrel Inside Diameter .061"/1.55 mm



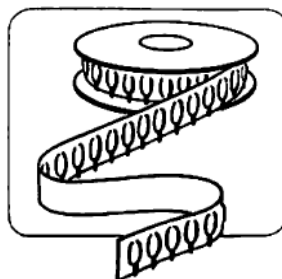
MATERIAL: COPPER ALLOY THICKNESS: .030"/.762 mm

BASIC DIMENSIONS					NON-INSULATED					INSULATED (RED VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .160"/4.06 mm					INSUL. DIA. .146"/3.71 mm				
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
2	.18	4.57	.26	6.60	SS22482	SS22482B	.43	10.92	.56	14.22	SS22492F	.73	18.54	.85	21.59	XSS22504	.72	18.29	.84	21.34
4	.25	6.35	.26	6.60	SS22465	SS22465B	.43	10.92	.56	14.22	SS22495F	.73	18.54	.85	21.59	XSS22505	.72	18.29	.84	21.34
5	.25	6.35	.26	6.60	SS22466	SS22466B	.43	10.92	.56	14.22	SS22496F	.73	18.54	.85	21.59	XSS22506	.72	18.29	.84	21.34
6	.25	6.35	.26	6.60	SS22467	SS22467B	.43	10.92	.56	14.22	SS22497F	.73	18.54	.85	21.59	XSS22507	.72	18.29	.84	21.34
8	.28	7.11	.26	6.60	SS22468	SS22468B	.43	10.92	.56	14.22	SS22498F	.73	18.54	.85	21.59	XSS22508	.72	18.29	.84	21.34
10	.33	8.38	.26	6.60	SS22469	SS22469B	.43	10.92	.60	15.24	SS22499F	.73	18.54	.89	22.61	XSS22509	.72	18.29	.88	22.35
Hand Tool					H4A	H4A	H7B					H7B								



N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XSS20937SN.

For metric dimensions of stud sizes, see page 43.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: SS20923S-T or XSS20937SN-T.



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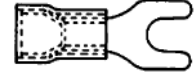
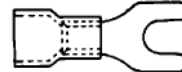
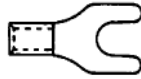
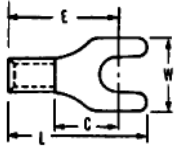
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22/16 Spades

CMA Range 509-3260
Barrel Inside Diameter .061"/1.55 mm

WIRE SIZE



MATERIAL: COPPER THICKNESS: .030"/.762 mm

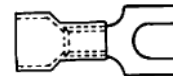
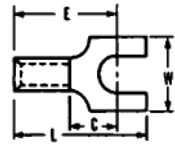
BASIC DIMENSIONS					NON-INSULATED					INSULATED (RED VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .160"/4.06mm				INSUL. DIA. .146"/3.71mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.31	7.87	.28	7.11	S4116	S4116B	.55	13.97	.71	18.03	S4154F	.79	20.07	.97	24.64					
6	.31	7.87	.28	7.11	S4116S	S4116SB	.45	11.43	.61	15.49	S4154SF	.72	18.29	.90	22.86	XS2404S	.71	18.03	.90	22.86
8	.31	7.87	.28	7.11	S4117	S4117B	.55	13.97	.71	18.03	S4155F	.79	20.07	.97	24.64					
8	.31	7.87	.28	7.11	S4117S	S4117SB	.45	11.43	.61	15.49	S4155SF	.72	18.29	.90	22.86	XS2053S	.71	18.03	.90	22.86
10	.31	7.87	.28	7.11	S4118	S4118B	.55	13.97	.71	18.03	S4156F	.79	20.07	.97	24.64					
10	.31	7.87	.28	7.11	S4118S	S4118SB	.45	11.43	.61	15.49	S4156SF	.72	18.29	.90	22.86	XS2054S	.71	18.03	.90	22.86
Hand Tool					H4A	H4A					H7B					H7B				



22/16 Block Spades

CMA Range 509-3260
Barrel Inside Diameter .061"/1.55 mm

WIRE SIZE



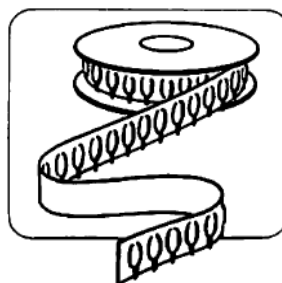
MATERIAL: COPPER THICKNESS: .030"/.762 mm

BASIC DIMENSIONS					NON-INSULATED					INSULATED (RED VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .160"/4.06 mm				INSUL. DIA. .146"/3.71 mm					
											FUNNEL FIT	E In.	E mm	L In.	L mm	FUNNEL FIG	E In.	E mm	L In.	L mm
6	.30	7.62	.19	4.83	BS41162	BS41162B	.46	11.68	.58	14.73	BS41542F	.70	17.78	.84	21.34					
6	.30	7.62	.19	4.83	BS41162S	BS41162SB	.36	9.14	.48	12.19	BS41542SF	.63	16.00	.77	19.56	XBS24042S	.62	15.75	.77	19.56
6	.24	6.10	.32	8.13	BS41163	BS41163B	.59	14.99	.72	18.29	BS41543F	.83	21.08	.99	25.15					
6	.24	6.10	.32	8.13	BS41163S	BS41163SB	.49	12.45	.63	16.00	BS41543SF	.76	19.30	.92	23.37	XBS24043S	.75	19.05	.92	23.37
8	.30	7.62	.19	4.83	BS41172	BS41172B	.46	11.68	.58	14.73	BS41552F	.70	17.78	.84	21.34					
8	.30	7.62	.19	4.83	BS41172S	BS41172SB	.36	9.14	.48	12.19	BS41552SF	.63	16.00	.77	19.56	XBS20532S	.62	15.75	.77	19.56
10	.30	7.62	.19	4.83	BS41182	BS41182B	.46	11.68	.58	14.73	BS41562F	.70	17.78	.84	21.34					
10	.30	7.62	.19	4.83	BS41182S	BS41182SB	.36	9.14	.48	12.19	BS41562SF	.63	16.00	.77	19.56	XBS20542S	.62	15.75	.77	19.56
10	.30	7.62	.32	8.13	BS41183	BS41183B	.59	14.99	.72	18.29	BS41563F	.83	21.08	.99	25.15					
10	.30	7.62	.32	8.13	BS41183S	BS41183SB	.49	12.45	.63	16.00	BS41563SF	.76	19.30	.92	23.37	XBS20543S	.75	19.05	.92	23.37
Hand Tool					H4A	H4A					H7B					H7B				



N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XS2404SN.

For metric dimensions of stud sizes, see page 43.

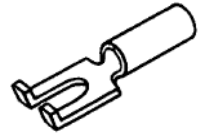
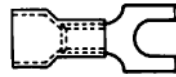
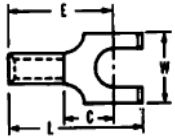


All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: S4116-T or XS2404SN-T.

22/16 Flanged Spades

CMA Range 509-3260
Barrel Inside Diameter .061"/1.55 mm

WIRE SIZE



MATERIAL: COPPER THICKNESS: .030"/.762 mm

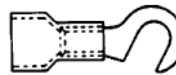
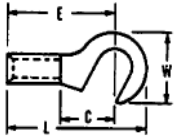
BASIC DIMENSIONS					NON-INSULATED				INSULATED (RED VINYL)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .160"/4.06 mm				INSUL. DIA. .146"/3.70 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
2	.18	4.57	.19	4.83	SF20746	SF20746B	.46	11.68	.60	15.24	SF20740F	.70	17.78	.87	22.10					
2	.18	4.57	.19	4.83	SF20746S	SF20746SB	.36	9.14	.51	12.95	SF20740SF	.63	16.00	.80	20.32	XSF2559S	.62	15.75	.80	20.32
2	.29	7.37	.19	4.83	SF20747	SF20747B	.46	11.68	.60	15.24	SF20741F	.70	17.78	.87	22.10					
2	.29	7.37	.19	4.83	SF20747S	SF20747SB	.36	9.14	.51	12.95	SF20741SF	.63	16.00	.80	20.32	XSF2560S	.62	15.75	.80	20.32
4	.29	7.37	.19	4.83	SF20748	SF20748B	.46	11.68	.60	15.24	SF20742F	.70	17.78	.87	22.10					
4	.29	7.37	.19	4.83	SF20748S	SF20748SB	.36	9.14	.51	12.95	SF20742SF	.63	16.00	.80	20.32	XSF2561S	.62	15.75	.80	20.32
6	.29	7.37	.19	4.83	SF20749	SF20749B	.46	11.68	.60	15.24	SF20752F	.70	17.78	.87	22.10					
6	.29	7.37	.19	4.83	SF20749S	SF20749SB	.36	9.14	.51	12.95	SF20752SF	.63	16.00	.80	20.32	XSF2562S	.62	15.75	.80	20.32
8	.29	7.37	.19	4.83	SF20750	SF20750B	.46	11.68	.60	15.24	SF20753F	.70	17.78	.87	22.10					
8	.29	7.37	.19	4.83	SF20750S	SF20750SB	.36	9.14	.51	12.95	SF20753SF	.63	16.00	.80	20.32	XSF2498S	.62	15.75	.80	20.32
10	.29	7.37	.19	4.83	SF20751	SF20751B	.46	11.68	.60	15.24	SF20754F	.70	17.78	.87	22.10					
10	.29	7.37	.19	4.83	SF20751S	SF20751SB	.36	9.14	.51	12.95	SF20754SF	.63	16.00	.80	20.32	XSF2499S	.62	15.75	.80	20.32
Hand Tool					H4A	H4A					H7B					H7B				



22/16 Hooks

CMA Range 509-3260
Barrel Inside Diameter .061"/1.55 mm

WIRE SIZE



MATERIAL: COPPER THICKNESS: .030"/.762 mm

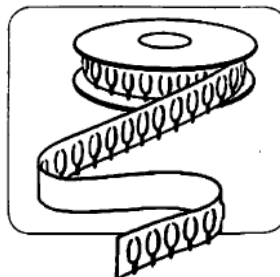
BASIC DIMENSIONS					NON-INSULATED				INSULATED (RED VINYL)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .160"/4.06 mm				INSUL. DIA. .146"/3.71 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.25	6.35	.32	8.13	H4500	H4500B	.59	14.99	.72	18.29	H4501F	.84	21.34	.98	24.89					
6	.25	6.35	.32	8.13	H4500S	H4500SB	.50	12.70	.62	15.75	H4501SF	.77	19.56	.91	23.11	XH4313S	.76	19.30	.90	23.86
6	.31	7.87	.32	8.13	H4505	H4505B	.59	14.99	.75	19.05	H4504F	.84	21.34	1.01	25.65					
6	.31	7.87	.32	8.13	H4505S	H4505SB	.50	12.70	.65	16.51	H4504SF	.77	19.56	.94	23.88	XH2454S	.76	19.30	.94	23.88
8	.31	7.87	.32	8.13	H4502	H4502B	.59	14.99	.75	19.05	H21699F	.84	21.34	1.01	25.65					
8	.31	7.87	.32	8.13	H4502S	H4502SB	.50	12.70	.65	16.51	H21699SF	.77	19.56	.94	23.88	XH2456S	.76	19.30	.94	23.88
10	.31	7.87	.32	8.13	H4503	H4503B	.59	14.99	.75	19.05	H21700F	.84	21.34	1.01	25.65					
10	.31	7.87	.32	8.13	H4503S	H4503SB	.50	12.70	.65	16.51	H21700SF	.77	19.56	.94	23.88	XH2457S	.76	19.30	.94	23.88
Hand Tool					H4A	H4A					H7B					H7B				



N* Above items are also available in nylon. To order, add N suffix to catalog number.

Example: XSF2559SN

For metric dimensions of stud sizes, see page 43.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: SF20746-T or XSF2559SN-T



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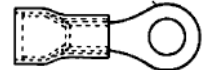
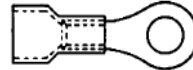
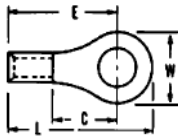
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20/16 Rings, Heavy Duty

WIRE SIZE

CMA Range 1290-3260 • Barrel Inside Diameter .065"/1.65 mm



MATERIAL: COPPER THICKNESS: .040"/1.02 mm

BASIC DIMENSIONS					NON-INSULATED					INSULATED (GREEN VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .198"/5.03 mm				INSUL. DIA. .178"/4.52 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
10	.47	11.94	.32	8.13	HDR1338	HDR1338B	.50	12.70	.74	18.80	HDR1350BF	.79	20.07	1.03	26.16	XHDR1356	.79	20.07	1.03	26.16
¼	.47	11.94	.32	8.13	HDR1339	HDR1339B	.50	12.70	.74	18.80	HDR1351BF	.79	20.07	1.03	26.16	XHDR1357	.79	20.07	1.03	26.16
Hand Tool (Use 16/14 Nest)					H4A	H4A					H7B				H7B					

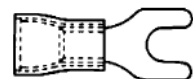
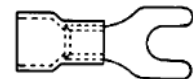
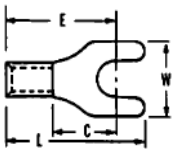


16/14 Spades

WIRE SIZE

CMA Range 2050-5180

Barrel Inside Diameter .085"/2.16 mm



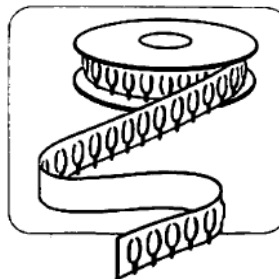
MATERIAL: COPPER THICKNESS: .032"/.813 mm

BASIC DIMENSIONS					NON-INSULATED					INSULATED (BLUE VINYL)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .198"/5.03 mm				INSUL. DIA. .178"/4.52 mm						
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm	
6	.38	9.65	.28	7.11	S4127	S4127B	.55	13.97	.74	18.80	S4165F	.80	20.32	1.01	25.65						
6	.38	9.65	.28	7.11	S4127S	S4127SB	.45	11.43	.64	16.26	S4165SF	.72	18.29	.93	23.62	XS2058S	.71	18.03	.93	23.62	
8	.38	9.65	.28	7.11	S4128	S4128B	.55	13.97	.74	18.80	S4166F	.80	20.32	1.01	25.65						
8	.38	9.65	.28	7.11	S4128S	S4128SB	.45	11.43	.64	16.26	S4166SF	.72	18.29	.93	23.62	XS2059S	.71	18.03	.93	23.62	
10	.38	9.65	.28	7.11	S4129	S4129B	.55	13.97	.74	18.80	S4167F	.80	20.32	1.01	25.65						
10	.38	9.65	.28	7.11	S4129S	S4129SB	.45	11.43	.64	16.26	S4167SF	.72	18.29	.93	23.62	XS2060S	.71	18.03	.93	23.62	
Hand Tool					H4A	H4A					H7B				H7B						



N* Above items are also available in nylon. To order, add N suffix to catalog number. Example: XHDR1356N.

For metric dimensions of stud sizes, see page 43.

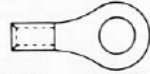
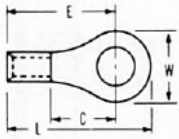


All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: HDR1338-T or XHDR1356N-T.

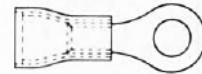
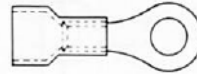
16/14 Rings

WIRE SIZE

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm



MATERIAL: COPPER THICKNESS: .032" .813 mm

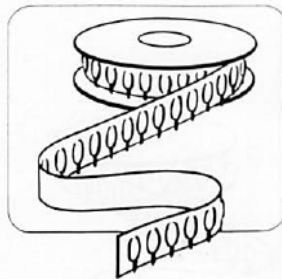


BASIC DIMENSIONS					NON-INSULATED					INSULATED (BLUE VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .198"/5.03 mm				INSUL. DIA. .178"/4.52 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
2	.25	6.35	.16	4.06	R3301	R3301B	.43	10.92	.55	13.97	R3311F	.70	17.78	.82	20.83					
2	.25	6.35	.16	4.06	R3301S	R3301SB	.33	8.38	.45	11.43	R3311SF	.62	15.75	.74	18.80	XR3321S	.62	15.75	.74	18.80
4	.25	6.35	.16	4.06	R4119	R4119B	.43	10.92	.55	13.97	R4157F	.70	17.78	.82	20.83					
4	.25	6.35	.16	4.06	R4119S	R4119SB	.33	8.38	.45	11.43	R4157SF	.62	15.75	.74	18.80	XR2441S	.62	15.75	.74	18.80
6	.25	6.35	.16	4.06	R4120	R4120B	.43	10.92	.55	13.97	R4158F	.70	17.78	.82	20.83					
6	.25	6.35	.16	4.06	R4120S	R4120SB	.33	8.38	.45	11.43	R4158SF	.62	15.75	.74	18.80	XR2442S	.62	15.75	.74	18.80
6	.25	6.35	.37	9.40	R61002G	R61002GB	.64	16.26	.77	19.56	R61005GF	.92	23.37	1.04	26.42					
6	.25	6.35	.37	9.40	R61002GS	R61002GSB	.55	13.97	.67	17.02	R61005GSF	.84	21.34	.96	24.38	XR61006GS	.84	21.34	.96	24.38
6	.31	7.87	.28	7.11	R4121	R4121B	.55	13.97	.71	18.03	R4159F	.83	21.08	.96	24.38					
6	.31	7.87	.28	7.11	R4121S	R4121SB	.46	11.68	.62	15.75	R4159SF	.75	19.05	.91	23.11	XR1901S	.75	19.05	.91	23.11
6	.31	7.87	.37	9.40	R4121G	R4121GB	.64	16.26	.80	20.32	R4159GF	.92	23.37	1.07	27.18					
6	.31	7.87	.37	9.40	R4121GS	R4121GSB	.55	13.97	.70	17.78	R4159GSF	.84	21.34	.99	25.15	XR1901GS	.84	21.34	.99	25.15
8	.31	7.87	.28	7.11	R4122	R4122B	.55	13.97	.71	18.03	R4160F	.83	21.08	.99	25.15					
8	.31	7.87	.28	7.11	R4122S	R4122SB	.46	11.68	.62	15.75	R4160SF	.75	19.05	.91	23.11	XR1902S	.75	19.05	.91	23.11
8	.31	7.87	.37	9.40	R4122G	R4122GB	.64	16.26	.80	20.32	R4160GF	.92	23.37	1.07	27.18					
8	.31	7.87	.37	9.40	R4122GS	R4122GSB	.55	13.97	.70	17.78	R4160GSF	.84	21.34	.99	25.15	XR1902GS	.84	21.34	.99	25.15
10	.31	7.87	.28	7.11	R4123	R4123B	.55	13.97	.71	18.03	R4161F	.83	21.08	.99	25.15					
10	.31	7.87	.28	7.11	R4123S	R4123SB	.46	11.68	.62	15.75	R4161SF	.75	19.05	.91	23.11	XR1903S	.75	19.05	.91	23.11
10	.31	7.87	.37	9.40	R4123G	R4123GB	.64	16.26	.80	20.32	R4161GF	.92	23.37	1.07	27.18					
10	.31	7.87	.37	9.40	R4123GS	R4123GSB	.55	13.97	.70	17.78	R4161GSF	.84	21.34	.99	25.15	XR1903GS	.84	21.34	.99	25.15
1/4	.46	11.68	.44	11.18	R4124	R4124B	.71	18.03	.94	23.88	R4162F	.98	24.89	1.21	30.73					
1/4	.46	11.68	.44	11.18	R4124S	R4124SB	.61	15.49	.84	21.34	R4162SF	.90	22.86	1.13	28.70	XR1906S	.90	22.86	1.13	28.70
5/16	.46	11.68	.44	11.18	R4125	R4125B	.71	18.03	.94	23.88	R4163F	.98	24.89	1.21	30.73					
5/16	.46	11.68	.44	11.18	R4125S	R4125SB	.61	15.49	.84	21.34	R4163SF	.90	22.86	1.13	28.70	XR1907S	.90	22.86	1.13	28.70
3/8	.53	13.46	.44	11.18	R4126	R4126B	.71	18.03	.97	24.64	R4164F	.98	24.89	1.25	31.75					
3/8	.53	13.46	.44	11.18	R4126S	R4126SB	.61	15.49	.88	22.35	R4164SF	.90	22.86	1.17	29.72	XR1908S	.90	22.86	1.17	29.72
Hand Tool					H4A	H4A					H7B					H7B				



N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XR3321SN.

For metric dimensions of stud sizes, see page 43.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: R3301-T or XR3321SN-T.



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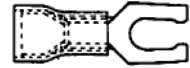
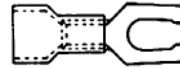
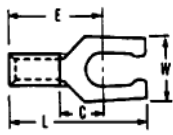
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16/14 Spring Spades

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm

WIRE SIZE



MATERIAL: COPPER ALLOY THICKNESS: .030"/.762 mm

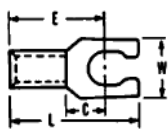
BASIC DIMENSIONS				NON-INSULATED				INSULATED (BLUE VINYL)												
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .198"/5.03 mm				INSUL. DIA. .178"/4.52 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.28	7.11	.26	6.60	SS20889S	SS20889SB	.43	10.92	.67	17.02	SS20947SF	.70	17.78	.96	24.38	XSS20954S	.69	17.53	.95	24.13
8	.28	7.11	.26	6.60	SS20890S	SS20890SB	.43	10.92	.67	17.02	SS20948SF	.70	17.78	.96	24.38	XSS20955S	.69	17.53	.95	24.13
10	.33	8.38	.26	6.60	SS20891S	SS20891SB	.43	10.92	.67	17.02	SS20949SF	.70	17.78	.96	24.38	XSS20956S	.69	17.53	.95	24.13
Hand Tool					H4A	H4A					H7B	H7B								



16/14 Mini Spring Spades

WIRE SIZE

CMA Range 2050-5180 • Barrel Inside Diameter .085"/2.16 mm



MATERIAL: COPPER ALLOY THICKNESS: .030"/.762 mm

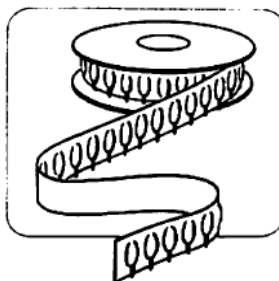
BASIC DIMENSIONS				NON-INSULATED				INSULATED (BLUE VINYL)												
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .198"/5.03 mm				INSUL. DIA. .178"/4.52 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
5	.25	6.35	.26	6.60	SS22470	SS22470B	.43	10.92	.56	14.22	SS22530F	.70	17.78	.85	21.59	XSS22540	.69	17.53	.84	21.34
6	.25	6.35	.26	6.60	SS22471	SS22471B	.43	10.92	.56	14.22	SS22531F	.70	17.78	.85	21.59	XSS22541	.69	17.53	.84	21.34
8	.28	7.11	.26	6.60	SS22472	SS22472B	.43	10.92	.56	14.22	SS22532F	.70	17.78	.85	21.59	XSS22542	.69	17.53	.84	21.34
10	.33	8.38	.26	6.60	SS22473	SS22473B	.43	10.92	.60	15.24	SS22533F	.70	17.78	.89	22.61	XSS22543	.69	17.53	.88	22.35
Hand Tool					H4A	H4A					H7B	H7B								



N* Above items are also available in nylon. To order, add N suffix to catalog number.

Example: XSS20954SN.

For metric dimensions of stud sizes, see page 43.

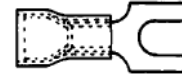
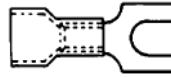
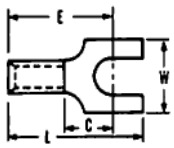


All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: SS20889S-T or XSS20954SN-T.

16/14 Block Spades

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm

WIRE SIZE



MATERIAL: COPPER THICKNESS: .032"/.813 mm

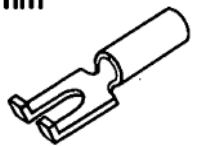
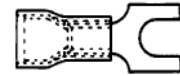
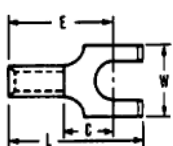
BASIC DIMENSIONS					NON-INSULATED					INSULATED (BLUE VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .198"/5.03mm				INSUL. DIA. .178"/4.52mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
4	.22	5.59	.38	9.65	BS41270	BS41270B	.64	16.26	.76	19.30	BS41650F	.90	22.86	1.04	26.42					
4	.22	5.59	.38	9.65	BS41270S	BS41270SB	.55	13.97	.67	17.02	BS41650SF	.82	20.83	.96	24.38	XBS20579S	.81	20.57	.95	24.13
6	.30	7.62	.19	4.83	BS41272	BS41272B	.46	11.68	.58	14.73	BS41652F	.71	18.03	.85	21.59					
6	.30	7.62	.19	4.83	BS41272S	BS41272SB	.36	9.14	.48	12.19	BS41652SF	.63	16.00	.77	19.56	XBS20582S	.62	15.75	.76	19.30
6	.25	6.35	.38	9.65	BS41273	BS41273B	.64	16.26	.83	21.08	BS41653F	.90	22.86	1.10	27.94					
6	.25	6.35	.38	9.65	BS41273S	BS41273SB	.55	13.97	.73	18.54	BS41653SF	.82	20.83	1.02	25.91	XBS20583S	.81	20.57	1.01	25.65
8	.30	7.62	.19	4.83	BS41282	BS41282B	.46	11.68	.58	14.73	BS41662F	.71	18.03	.85	21.59					
8	.30	7.62	.19	4.83	BS41282S	BS41282SB	.36	9.14	.48	12.19	BS41662SF	.63	16.00	.77	19.56	XBS20592S	.62	15.75	.76	19.30
10	.31	7.87	.38	9.65	BS41278	BS41278B	.64	16.26	.90	22.86	BS41658F	.90	22.86	1.17	29.72					
10	.31	7.87	.38	9.65	BS41278S	BS41278SB	.55	13.97	.80	20.32	BS41658SF	.82	20.83	1.09	27.69	XBS20588S	.81	20.57	1.08	27.43
10	.30	7.62	.19	4.83	BS41292	BS41292B	.46	11.68	.58	14.73	BS41672F	.71	18.03	.85	21.59					
10	.30	7.62	.19	4.83	BS41292S	BS41292SB	.36	9.14	.48	12.19	BS41672SF	.63	16.00	.77	19.56	XBS20602S	.62	15.75	.76	19.30
Hand Tool					H4A	H4A					H7B				H7B					



16/14 Flanged Spades

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm

WIRE SIZE



MATERIAL: COPPER THICKNESS: .032"/.813 mm

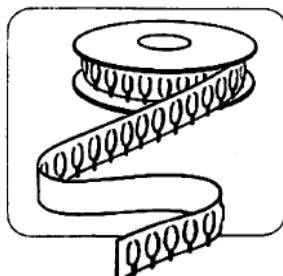
BASIC DIMENSIONS					NON-INSULATED					INSULATED (BLUE VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .198"/5.03mm				INSUL. DIA. .178"/4.52mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.29	7.37	.19	4.83	SF20855	SF20855B	.46	11.68	.60	15.24	SF20858F	.71	18.03	.88	22.35					
6	.29	7.37	.19	4.83	SF20855S	SF20855SB	.36	9.14	.51	12.95	SF20858SF	.63	16.00	.80	20.32	XSF20861S	.62	15.75	.79	20.07
8	.29	7.37	.19	4.83	SF20856	SF20856B	.46	11.68	.60	15.24	SF20859F	.71	18.03	.88	22.35					
8	.29	7.37	.19	4.83	SF20856S	SF20856SB	.36	9.14	.51	12.95	SF20859SF	.63	16.00	.80	20.32	XSF20862S	.62	15.75	.79	20.07
10	.29	7.37	.19	4.83	SF20857	SF20857B	.46	11.68	.60	15.24	SF20860	.71	18.03	.88	22.35					
10	.29	7.37	.19	4.83	SF20857S	SF20857SB	.36	9.14	.51	12.95	SF20860SF	.63	16.00	.80	20.32	XSF20863S	.62	15.75	.79	20.07
Hand Tool					H4A	H4A					H7B				H7B					



N* Above items are also available in nylon. To order, add N suffix to catalog number.

Example: XBS20579SN.

For metric dimensions of stud sizes, see page 43.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: BS41270-T or XBS20579SN-T.



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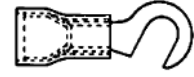
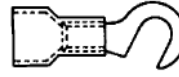
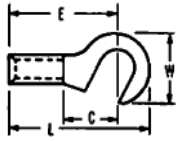
1-888-872-0690

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16/14 Hooks

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm

WIRE SIZE



MATERIAL: COPPER THICKNESS: .032"/.813 mm

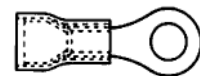
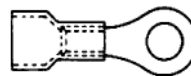
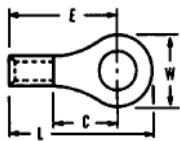
BASIC DIMENSIONS		NON-INSULATED				INSULATED (BLUE VINYL)														
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .198"/5.03 mm				INSUL. DIA. .178"/4.52 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.31	7.87	.28	7.11	H20256	H20256B	.55	13.97	.71	18.03	H20262F	.83	21.08	.99	25.15					
6	.31	7.87	.28	7.11	H20256S	H20256SB	.46	11.68	.62	15.75	H20262SF	.75	19.05	.91	23.11	XH20381S	.75	19.05	.91	23.11
8	.31	7.87	.28	7.11	H20257	H20257B	.55	13.97	.71	18.03	H20263F	.83	21.08	.99	25.15					
8	.31	7.87	.28	7.11	H20257S	H20257SB	.46	11.68	.62	15.75	H20263SF	.75	19.05	.91	23.11	XH20306S	.75	19.05	.91	23.11
10	.31	7.87	.28	7.11	H20258	H20258B	.55	13.97	.71	18.03	H20264F	.83	21.08	.99	25.15					
10	.31	7.87	.28	7.11	H20258S	H20258SB	.46	11.68	.62	15.75	H20264SF	.75	19.05	.91	23.11	XH5481S	.75	19.05	.91	23.11
Hand Tool		H4A		H4A		H7B				H7B										



16/14 Rings-Heavy Duty

CMA Range 2050-5180
Barrel Inside Diameter .110"/2.79 mm

WIRE SIZE

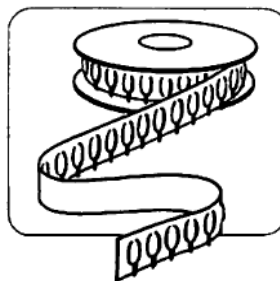


MATERIAL: COPPER THICKNESS: .049"/1.24 mm

BASIC DIMENSIONS		NON-INSULATED				INSULATED (YELLOW WITH BLACK STRIPES)															
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm				INSUL. DIA. .239"/6.07 mm						
											Funnel FIT ▲	E In.	E mm	L In.	L mm	Funnel FIG (Vinyl)	Funnel FIG (Nylon)	E In.	E mm	L In.	L mm
6	.25	6.35	.28	7.11	HDR12	HDR12B	.55	13.97	.67	17.02	HDR27F	.89	22.61	1.01	25.65	XHDR67	XHDR67N	.90	22.86	1.02	25.91
6	.35	8.89	.28	7.11	HDR21	HDR21B	.55	13.97	.73	18.54	HDR31F	.89	22.61	1.06	26.92	XHDR61	XHDR61N	.90	22.86	1.08	27.43
8	.35	8.89	.28	7.11	HDR22	HDR22B	.55	13.97	.73	18.54	HDR32F	.89	22.61	1.06	26.92	XHDR62	XHDR62N	.90	22.86	1.08	27.43
10	.35	8.89	.28	7.11	HDR23	HDR23B	.55	13.97	.73	18.54	HDR33F	.89	22.61	1.06	26.92	XHDR63	XHDR63N	.90	22.86	1.08	27.43
1/4	.48	12.19	.36	9.14	HDR24	HDR24B	.63	16.00	.87	22.10	HDR34F	.96	24.38	1.20	30.48	XHDR64	XHDR64N	.98	24.89	1.22	30.99
5/16	.48	12.19	.36	9.14	HDR25	HDR25B	.63	16.00	.87	22.10	HDR35F	.96	24.38	1.20	30.48	XHDR65	XHDR65N	.98	24.89	1.22	30.99
Hand Tool (use 12/10 nest)		H4A		H4A		H6E				H6E											



N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XH20381SN.
For metric dimensions of stud sizes, see page 43.

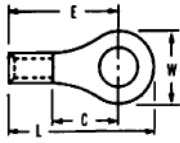


All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: H20256-T or XH20381SN-T.

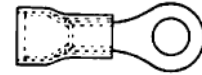
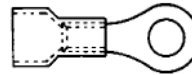
16/14 Rings-Heavy Duty (Railroad Terminals)

WIRE SIZE

CMA Range 2050-5180 • Barrel Inside Diameter .110"/2.79 mm



MATERIAL: COPPER THICKNESS: .049"/1.24 mm



BASIC DIMENSIONS					NON-INSULATED				INSULATED (YELLOW VINYL WITH THREE BLACK STRIPES)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm				INSUL. DIA. .239"/6.07 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIT	E In.	E mm	L In.	L mm
10	.53	13.46	.37	9.40	HDR1361	HDR1361B	.64	16.26	.90	22.86	HDR1374BF	.95	24.13	1.21	30.73	XHDR1380	.97	24.64	1.23	31.24
1/4	.53	13.46	.37	9.40	HDR1362	HDR1362B	.64	16.26	.90	22.86	HDR1375BF	.95	24.13	1.21	30.73	XHDR1381	.97	24.64	1.23	31.24
5/16	.53	13.46	.37	9.40	HDR1363	HDR1363B	.64	16.26	.90	22.86	HDR1376BF	.95	24.13	1.21	30.73	XHDR1382	.97	24.64	1.23	31.24
Hand Tool (use 12/10 Nest)					H4A	H4A					H6E					H6E				

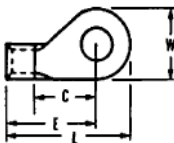


14/12 Offset Rings

WIRE SIZE

CMA Range 3260-8230

Barrel Inside Diameter .096"/2.44 mm



MATERIAL: COPPER



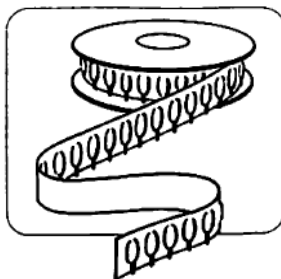
THICKNESS: .040"/1.02 mm

BASIC DIMENSIONS					NON-INSULATED				INSULATED (GREEN VINYL)					
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm	FIT Flared	E In.	E mm	L In.	L mm
8	.42	10.67	.36	9.14	OR14121B	.54	13.72	.75	19.05	OR14131BF†	.87	22.10	1.08	27.43
10	.42	10.67	.36	9.14	OR14122B	.54	13.72	.75	19.05	OR14132BF†	.87	22.10	1.08	27.43
1/4	.42	10.67	.36	9.14	OR14123B	.54	13.72	.75	19.05	OR14133BF†	.87	22.10	1.08	27.43
Hand Tool					H4A									



N* Above items are also available in nylon. To order, add N suffix to catalog number. Example: XHDR1380N.

For metric dimensions of stud sizes, see page 43.



All items listed on this page (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: HDR1361-T or XHDR1380N-T.



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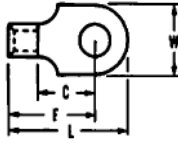
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14/12 Rings

WIRE SIZE

CMA Range 3260-8230

Barrel Inside Diameter .094"/2.39 mm



MATERIAL: COPPER



THICKNESS: .040"/1.02 mm

BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm
4	.31	7.87	.34	8.64	R44124B	.51	12.95	.67	17.02
4	.42	10.67	.34	8.64	R14124B	.51	12.95	.73	18.54
6	.31	7.87	.34	8.64	R44126B	.51	12.95	.67	17.02
6	.42	10.67	.34	8.64	R14126B	.51	12.95	.73	18.54
8	.31	7.87	.34	8.64	R44128B	.51	12.95	.67	17.02
8	.42	10.67	.34	8.64	R14128B	.51	12.95	.73	18.54
10	.31	7.87	.34	8.64	R441210B	.51	12.95	.67	17.02
10	.42	10.67	.34	8.64	R141210B	.51	12.95	.73	18.54
1/4	.42	10.67	.34	8.64	R141214B	.51	12.95	.73	18.54
Hand Tool					H4A				

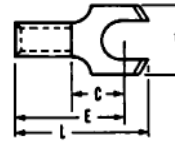


14/12 Flanged Spades

WIRE SIZE

CMA Range 3260-8230

Barrel Inside Diameter .094"/2.39 mm



MATERIAL: COPPER



THICKNESS: .040"/1.02 mm

BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm
4	.42	10.67	.34	8.64	SF34124B	.51	12.95	.75	19.05
6	.42	10.67	.34	8.64	SF34126B	.51	12.95	.75	19.05
8	.42	10.67	.34	8.64	SF34128B	.51	12.95	.75	19.05
10	.42	10.67	.34	8.64	SF341210B	.51	12.95	.75	19.05
1/4	.42	10.67	.34	8.64	SF341214B	.51	12.95	.75	19.05
Hand Tool					H4A				

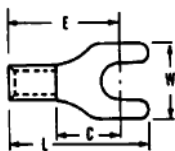


12/10 Spades

WIRE SIZE

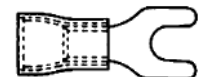
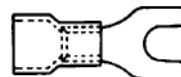
CMA Range 5180-13,100

Barrel Inside Diameter .131"/3.33 mm



MATERIAL: COPPER

THICKNESS: .040"/1.02 mm

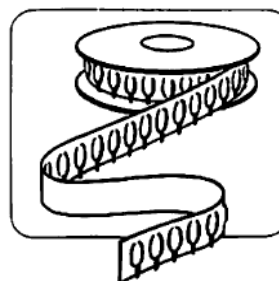


BASIC DIMENSIONS					NON-INSULATED		INSULATED (YELLOW VINYL)													
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm				INSUL. DIA. .239"/6.07 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.38	9.65	.27	6.86	S2995	S2995B	.55	13.97	.73	18.54	S4174F	.87	22.10	1.07	27.18	XS2587	.86	21.84	1.06	26.92
8	.38	9.65	.27	6.86	S3478	S3478B	.55	13.97	.73	18.54	S4175F	.87	22.10	1.07	27.18	XS2588	.86	21.84	1.06	26.92
10	.38	9.65	.27	6.86	S3479	S3479B	.55	13.97	.73	18.54	S4176F	.87	22.10	1.07	27.18	XS2589	.86	21.84	1.06	26.92
Hand Tool					H4A	H4A					H6E					H6E				



N* Above items are also available in nylon. To order, add N suffix to catalog number. Example: XS2587N.

For metric dimensions of stud sizes, see page 43.

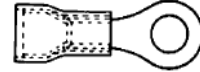
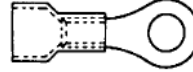
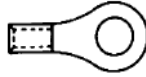
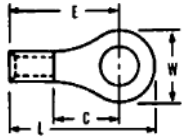


All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: R44124B-T or XS2587N-T.

12/10 Rings

CMA Range 5180-13,100
Barrel Inside Diameter .131"/3.33 mm

WIRE SIZE



MATERIAL: COPPER THICKNESS: .040"/1.02 mm

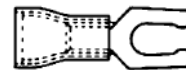
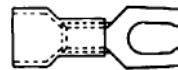
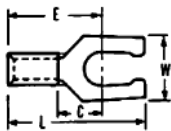
BASIC DIMENSIONS					NON-INSULATED				INSULATED (YELLOW VINYL)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm				INSUL. DIA. .239"/6.07 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
4	.28	7.11	.27	6.86	R3454	R3454B	.54	13.72	.68	17.27	R4182F	.88	22.35	1.02	25.91	XR5105	.89	22.61	1.03	26.16
6	.28	7.11	.27	6.86	R3455	R3455B	.54	13.72	.68	17.27	R4183F	.88	22.35	1.02	25.91	XR5106	.89	22.61	1.03	26.16
6	.31	7.87	.27	6.86	R3453	R3453B	.54	13.72	.70	17.78	R4188F	.87	22.10	1.03	26.16	XR5118	.88	22.35	1.04	26.42
6	.37	9.40	.28	7.11	R3456	R3456B	.56	14.22	.74	18.80	R4168F	.88	22.35	1.07	27.18	XR5107	.90	22.86	1.09	27.69
8	.28	7.11	.27	6.86	R3452	R3452B	.54	13.72	.68	17.27	R4189F	.88	22.35	1.02	25.91	XR5113	.89	22.61	1.03	26.16
8	.37	9.40	.28	7.11	R2994	R2994B	.56	14.22	.74	18.80	R4169F	.88	22.35	1.07	27.18	XR5108	.90	22.86	1.09	27.69
10	.37	9.40	.28	7.11	R3457	R3457B	.56	14.22	.74	18.80	R4170F	.88	22.35	1.07	27.18	XR5109	.90	22.86	1.09	27.69
1/4	.52	13.21	.47	11.94	R3458	R3458B	.75	19.05	1.01	25.65	R4171F	1.07	27.18	1.33	33.78	XR5110	1.09	27.69	1.35	34.29
5/16	.52	13.21	.47	11.94	R3459	R3459B	.75	19.05	1.01	25.65	R4172F	1.07	27.18	1.33	33.78	XR5111	1.09	27.69	1.35	34.29
3/8	.59	14.99	.50	12.70	R3220	R3220B	.78	19.81	1.07	27.18	R4173F	1.10	27.94	1.39	35.31	XR5112	1.12	28.45	1.41	35.81
7/16	.71	18.03	.50	12.70	R3222	R3222B	.78	19.81	1.13	28.70	R4178F	1.10	27.94	1.46	37.08	XR5114	1.12	28.45	1.47	37.34
1/2	.71	18.03	.50	12.70	R3223	R3223B	.78	19.81	1.13	28.70	R4179F	1.10	27.94	1.46	37.08	XR5117	1.12	28.45	1.47	37.34
Hand Tool					H4A	H4A					H6E				H6E					



12/10 Spring Spades

CMA Range 5180-13,100
Barrel Inside Diameter .131"/3.33 mm

WIRE SIZE



MATERIAL: COPPER ALLOY THICKNESS: .040"/1.02 mm

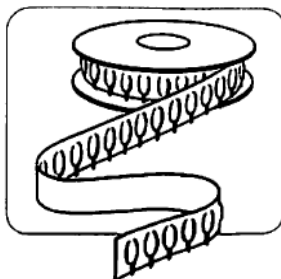
BASIC DIMENSIONS					NON-INSULATED				INSULATED (YELLOW VINYL)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm				INSUL. DIA. .239"/6.07 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.31	7.87	.26	6.60	SS20828	SS20828B	.52	13.21	.78	19.81	SS20832F	.85	21.59	1.13	28.70	XSS20836	.85	21.59	1.12	28.45
8	.31	7.87	.26	6.60	SS20829	SS20829B	.52	13.21	.78	19.81	SS20833F	.85	21.59	1.13	28.70	XSS20837	.85	21.59	1.12	28.45
10	.33	8.38	.26	6.60	SS20830	SS20830B	.52	13.21	.78	19.81	SS20834F	.85	21.59	1.13	28.70	XSS20838	.85	21.59	1.12	28.45
1/4	.45	11.43	.26	6.60	SS20831	SS20831B	.52	13.21	.78	19.81	SS20815F	.85	21.59	1.13	28.70	XSS20887	.85	21.59	1.12	28.45
Hand Tool					H4A	H4A					H6E				H6E					



N* Above items are also available in nylon. To order, add N suffix to catalog number.

Example: XR5105N.

For metric dimensions of stud sizes, see page 43.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: R3454-T or XR5105N-T.



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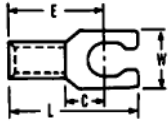
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12/10 Mini Spring Spades

WIRE SIZE

CMA Range 5180/13,100 • Barrel Inside Diameter .131"/3.33 mm



MATERIAL: COPPER ALLOY THICKNESS: .040"/1.02 mm

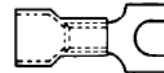
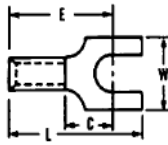
BASIC DIMENSIONS					NON-INSULATED				INSULATED (YELLOW VINYL)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73mm				INSUL. DIA. .239"/6.07mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
5	.25	6.35	.26	6.60	SS22474	SS22474B	.53	13.46	.65	16.51	SS22564F	.85	21.59	.99	25.15	XSS22574	.85	21.59	.99	25.15
6	.25	6.35	.26	6.60	SS22475	SS22475B	.53	13.46	.65	16.51	SS22565F	.85	21.59	.99	25.15	XSS22575	.85	21.59	.99	25.15
8	.28	7.11	.26	6.60	SS22476	SS22476B	.53	13.46	.65	16.51	SS22566F	.85	21.59	.99	25.15	XSS22576	.85	21.59	.99	25.15
10	.33	8.38	.26	6.60	SS22477	SS22477B	.53	13.46	.70	17.78	SS22567F	.85	21.59	1.05	26.67	XSS22577	.85	21.59	1.04	26.42
Hand Tool					H4A	H4A					H6E					H6E				



12/10 Block Spades

WIRE SIZE

CMA Range 5180-13,100
Barrel Inside Diameter .131"/3.33 mm



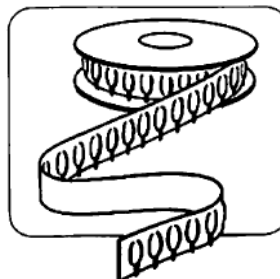
MATERIAL: COPPER THICKNESS: .040"/1.02 mm

BASIC DIMENSIONS					NON-INSULATED				INSULATED (YELLOW VINYL)											
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73mm				INSUL. DIA. .239"/6.07mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.31	7.87	.27	6.86	BS29952	BS29952B	.54	13.72	.68	17.27	BS41742F	.86	21.84	1.02	25.91	XBS25872	.85	21.59	1.02	25.91
6	.31	7.87	.27	6.86	BS29953	BS29953B	.54	13.72	.76	19.30	BS41743F	.86	21.84	1.10	27.94	XBS25873	.85	21.59	1.10	27.94
8	.31	7.87	.27	6.86	BS34782	BS34782B	.54	13.72	.68	17.27	BS41752F	.86	21.84	1.02	25.91	XBS25882	.85	21.59	1.02	25.91
8	.31	7.87	.27	6.86	BS34783	BS34783B	.54	13.72	.76	19.30	BS41753F	.86	21.84	1.10	27.94	XBS25883	.85	21.59	1.10	27.94
10	.31	7.87	.27	6.86	BS34792	BS34792B	.54	13.72	.68	17.27	BS41762F	.86	21.84	1.02	25.91	XBS25892	.85	21.59	1.02	25.91
10	.31	7.87	.27	6.86	BS34793	BS34793B	.54	13.72	.76	19.30	BS41763F	.86	21.84	1.10	27.94	XBS25893	.85	21.59	1.10	27.94
Hand Tool					H4A	H4A					H6E					H6E				



N* Items on this spread are also available in nylon. To order, add N suffix to catalog number.
Example: XSS22574N

For metric dimensions of stud sizes on this spread, see page 43.

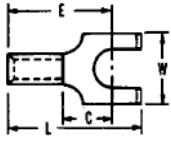
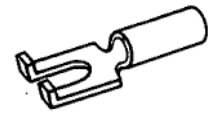


All items listed on this spread (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number.

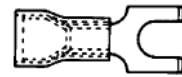
Example: SS22474-T or XSS22574N-T.

12/10 Flanged Spades

WIRE SIZE CMA Range 5180/13,100 • Barrel Inside Diameter .131"/3.33 mm



MATERIAL: COPPER THICKNESS: .040"/1.02 mm



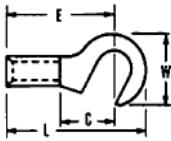
BASIC DIMENSIONS					NON-INSULATED					INSULATED (YELLOW VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm				INSUL. DIA. .239"/6.07 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.38	9.65	.25	6.35	SF22451	SF22451B	.52	13.21	.74	18.80	SF20268F	.84	21.34	1.08	27.43	XSF2508	.83	21.08	1.07	27.18
8	.38	9.65	.25	6.35	SF22453	SF22453B	.52	13.21	.74	18.80	SF20269F	.84	21.34	1.08	27.43	XSF2509	.83	21.08	1.07	27.18
10	.38	9.65	.25	6.35	SF22456	SF22456B	.52	13.21	.74	18.80	SF20270F	.84	21.34	1.08	27.43	XSF2510	.83	21.08	1.07	27.18
Hand Tool					H4A	H4A					H6E	H6E								



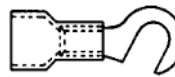
12/10 Hooks

CMA Range 5180-13,100
Barrel Inside Diameter .131"/3.33 mm

WIRE SIZE



MATERIAL: COPPER THICKNESS: .040"/1.02 mm

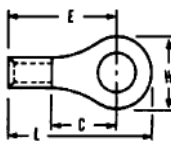


BASIC DIMENSIONS					NON-INSULATED					INSULATED (YELLOW VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm				INSUL. DIA. .239"/6.07 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.38	9.65	.28	7.11	H22452	H22452B	.56	14.22	.74	18.80	H20265F	.87	22.10	1.08	27.43	XH21608	.87	22.10	1.08	27.43
8	.38	9.65	.28	7.11	H22454	H22454B	.56	14.22	.74	18.80	H20266F	.87	22.10	1.08	27.43	XH21609	.87	22.10	1.08	27.43
10	.38	9.65	.28	7.11	H22455	H22455B	.56	14.22	.74	18.80	H20267F	.87	22.10	1.08	27.43	XH21610	.87	22.10	1.08	27.43
Hand Tool					H4A	H4A					H6E	H6E								

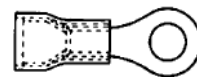
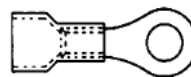


12/10 Rings (Railroad Terminals)

WIRE SIZE CMA Range 5180/13,100 • Barrel Inside Diameter .131"/3.33 mm



MATERIAL: COPPER THICKNESS: .040"/1.02 mm



BASIC DIMENSIONS					NON-INSULATED					INSULATED (BLACK VINYL)										
Stud Size	W In.	W mm	C In.	C mm	NIT	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm				INSUL. DIA. .239"/6.07 mm					
											Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
10	.53	13.46	.37	9.40	R3446	R3446B	.63	16.00	.90	22.86	R4246BF	.97	24.64	1.25	31.75	XR4255	.96	24.38	1.24	31.50
3/4	.53	13.46	.37	9.40	R3447	R3447B	.63	16.00	.90	22.86	R4247BF	.97	24.64	1.25	31.75	XR4256	.96	24.38	1.24	31.50
5/16	.53	13.46	.37	9.40	R3448	R3448B	.63	16.00	.90	22.86	R4248BF	.97	24.64	1.25	31.75	XR4257	.96	24.38	1.24	31.50
Hand Tool					H4A	H4A					H6E	H6E								



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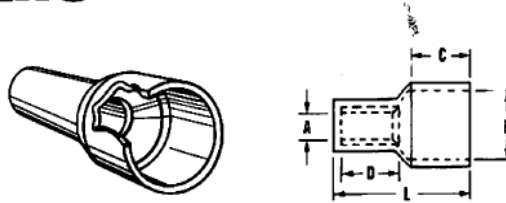
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22/8 Pigtails

WIRE SIZE

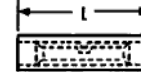
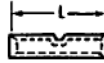
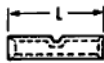


Wire Range	FIT	CMA Range	Insulation	Insert	A In.	A mm	B In.	B mm	C In.	C mm	D In.	D mm	L In.	L mm	Hand Tool
22-14	NP5115	509-5180	Nylon	Copper	.10	2.54	.28	7.11	.19	4.83	.32	8.13	.73	18.54	H9
18-10	NP5670	1600-13,100	Nylon	Copper	.16	4.06	.40	10.16	.27	6.86	.32	8.13	.81	20.57	H18
18-8	NP5671	1600-20,800	Nylon	Copper	.22	5.59	.49	12.45	.39	9.91	.44	11.18	1.09	27.69	H15



22/10 Butt Connectors

WIRE SIZE

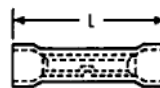
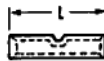


MATERIAL: COPPER

BASIC DIMENSIONS						NON-INSULATED (VINYL)				INSULATED (NYLON)						
Wire Size	CMA Range	ID In.	ID mm	OD In.	OD mm	NIT	NIT Brazed	L In.	L mm	FIT	FIT Brazed	L In.	L mm	Insul. Dia. In.	Insul. Dia. mm	Hand Tool H270 Die
22-16	509-3260	.064	1.63	.136	3.45	B1818	B1818B	.58	14.73	B4067	B4067BN	1.04	26.42	.125	3.18	H7B
16-14	2050-5180	.085	2.16	.159	4.04	B1819	B1819B	.58	14.73	B4068	B4068BN	1.04	26.42	.150	3.81	H7B
14-12	3260-8230	.096	2.44	.172	4.37		B1920B	.69	17.53		B1921BN	1.17	29.72	.164	4.17	²⁷⁰⁶⁵ 27180
12-10	5180-13,100	.131	3.33	.221	5.61	B2151	B2151B	.74	18.80	B4069	B4069BN	1.23	31.24	.210	5.33	H6E
Hand Tool						H4A	H4A									See Above



FIT Brazed also available in Vinyl



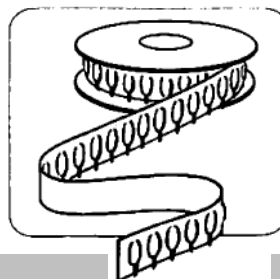
BASIC DIMENSIONS													
Wire Size	CMA Range	ID In.	ID mm	OD In.	OD mm	FIT Flared	FIT Flared Brazed	L In.	L mm	Insul. Dia. In.	Insul. Dia. mm	Hand Tool H270 Die	Insul. Color
22-16	509-3260	.064	1.63	.136	3.45	B4070	B4070B	1.05	26.67	.160	4.06	H7B	Red
16-14	2050-5180	.085	2.16	.159	4.04	B4071	B4071B	1.07	27.18	.195	4.95	H7B	Blue
14-12	3260-8230	.096	2.44	.172	4.37		B1922B	1.15	29.21	.210	5.33	²⁷⁰⁶⁵ 27180	Green
12-10	5180-13,100	.131	3.33	.221	5.61	B4072†	B4072B	1.23	31.24	.265	6.73	H6E	Yellow
Hand Tool													See Above



N* Above items are also available in nylon. To order, add N suffix to catalog number.

Example: B4067N

For metric dimensions of stud sizes, see page 43.



All items listed on this spread (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number.

Example: NP5115-T or B4067N-T.



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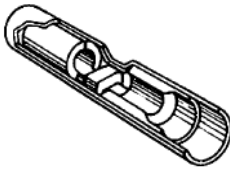
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26/10 Window Butt Connectors

WIRE SIZE



MATERIAL: COPPER

		NON-INSULATED						INSULATED (NYLON)						
Wire Range	CMA Range	Inside Barrel Dia. In.	mm	MG Brazed	L In.	L mm	Hand Tool	FIG	Insul. Color	Insul. Dia. In.	mm	L In.	L mm	Hand Tool
26-24	202-320	.027	.69	B1877B*†	.66	16.76	H4A	B1868BN†	Yellow	.070	1.78	.86	21.84	H8A
24-20	320-1290	.043	1.09	B1878B*†	.73	18.54	H4A	B1841BN	Clear	.100	2.54	.98	24.89	H8A
22-18	509-2050	.061	1.55	B1873B	.84	21.34	H4A	B1870BN	Red	.128	3.25	1.16	29.46	H7B
16-14	2050-5180	.083	2.11	B1874B	.86	21.84	H4A	B1871BN	Blue	.152	3.86	1.16	29.46	H7B
12-10	5180-13,100	.129	3.28	B1875B*†	1.27	32.26	H4A	B1872BN	Yellow	.208	5.28	1.57	39.88	H6E



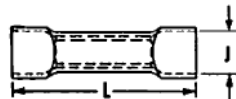
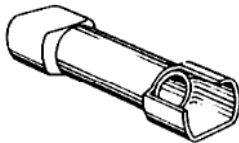
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† Not CSA Listed



Δ Not Brazed

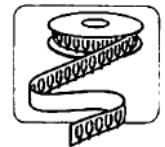
22/10 Oval Butt Connectors

WIRE SIZE



MATERIAL: COPPER

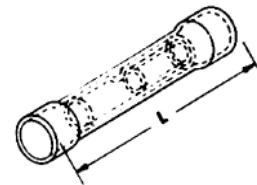
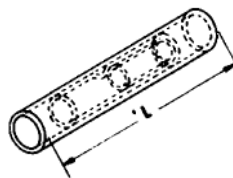
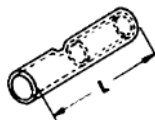
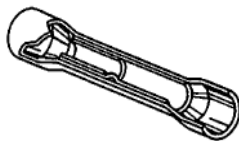
		INSULATED (VINYL ONLY)											
Wire Range	CMA Range	Insul. Color	FIT Flared	Brazed FIT Flared	Inside Barrel Dia. In.	mm	J In.	J mm	Z In.	Z mm	L In.	L mm	Hand Tool
22-16	509-3260	Red	B4050	B4050B	.064	1.63	.185	4.70	.125	3.18	1.04	26.42	H7B
16-14	2050-5180	Blue	B4051	B4051B	.082	2.08	.250	6.35	.140	3.56	1.04	26.42	H7B
12-10	5180-13,100	Yellow	B4052	B4052B	.130	3.30	.295	7.49	.216	5.49	1.23	31.24	H6E



N* Items are also available in nylon. To order, add N suffix to catalog number. Example: B4044BN.

All items listed on this page (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: B1873B-T or B4044BN-T.

Step Down Butt Connectors



MATERIAL: COPPER

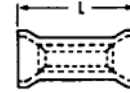
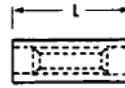
		NON-INSULATED						INSULATED (VINYL)							
Wire Range	CMA Range	NIT Brazed	L In.	L mm	Hand Tool	Insul. Color	FIT	Insul. Dia. In.	mm	FT Flared	Insul. Dia. In.	mm	L In.	L mm	Hand Tool
22-16	14-12 509-3260 3260-8230	B4040B	.69	17.53	H4A	Green	B4044B	.164	4.17	B4044BF	.210	5.33	1.18	29.97	H7B
16-14	12-10 2050-5180 5180-13100	B4041B	.74	18.80	H4A	Yellow	B4045B	.211	5.36	B4045BF	.265	6.73	1.30	33.02	H6E
12-10	8 5180-13100 13100-20800	B4042B	.77	19.56	H20	Red	B4046B	.275	6.99	B4046BF	.310	7.87	1.45	36.83	H20
8	6 13100-20800 20800-33100	B4043B	1.02	25.91	H20	Blue	B4047B	.351	8.92	B4047BF	.430	10.92	1.86	47.24	H20



When ordering tape mounted Step Down Butt Connectors, indicate which end (wire size) is to be exposed for crimping.

26/10 Parallels

WIRE SIZE



MATERIAL: COPPER

Wire Range	NON-INSULATED								INSULATED (VINYL)										
	NIT	NIT Brazed	I.D. In.	I.D. mm	O.D. In.	O.D. mm	L In.	L mm	Hand Tool	FIT	FIT Brazed	Ins. Dia. In.	Ins. Dia. mm	FIT Flared	FIT Flared Brazed	L In.	L mm	Insul. Color	Hand Tool
26/24	P4019**+		.033	.84	.078	1.98	.21	5.33		P4020**+		.072	1.83			.26	6.60	Yellow	H8A
22/16	P4130	P4130B	.064	1.63	.136	3.45	.33	8.38	H4A	P4131	P4131B	.125	3.18	P4132	P4132B	.76	19.30	Red	H7B
16/14	P4137	P4137B	.085	2.16	.158	4.01	.33	8.38	H4A	P4133+	P4133B+	.150	3.81	P4134+	P4134B+	.76	19.30	Blue	H7B
12/10	P4138+	P4138B+	.131	3.33	.221	5.61	.33	8.38	H4A	P4135+	P4135B+	.210	5.33	P4136+	P4136B+	.83	21.08	Yellow	H6E

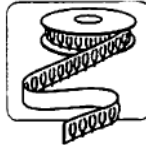


**P4019 Not UL or CSA Listed.



**P4020 Not UL or CSA Listed.

N* Above items also available in nylon. To order, add N to suffix catalog number. Example: P4131N. P4020 not available in Nylon.

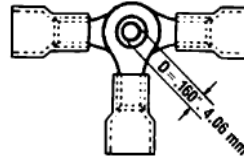
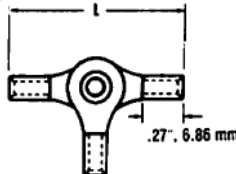


Only the following parallels are available tape mounted for fast, automatic crimping with the Hollingsworth H270 crimping machine: P4130 P4130B P4131 P4131B P4131N P4131BN P4132 P4132B P4137 P4137B To order on tape, add T suffix to catalog number. Example: P4130-T or P4131N-T.

22/10 3-Way Connectors

CMA Range 509-13,100

WIRE SIZE



MATERIAL: COPPER

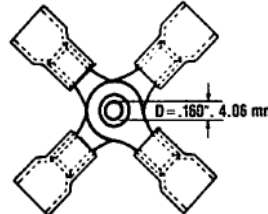
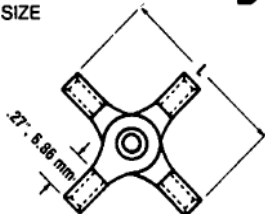
Wire Range	NON-INSULATED						INSULATED (VINYL)				
	NIT	NIT Brazed	L In.	L mm	Barrel I.D. In.	Barrel I.D. mm	Funnel FIT	L In.	L mm	Insul. Color	Hand Tool
22-16	32216	32216B	1.19	30.23	.061	1.55	312216F	1.71	43.43	Red	H7B
16-14	31614	31614B	1.11	28.19	.085	2.16	311614F	1.66	42.16	Blue	H7B
12-10	31210	31210B	1.11	28.19	.131	3.33	311210F	1.77	44.96	Yellow	H6E
Hand Tool	H4A	H4A					See End Column				



22/10 4-Way Connectors

CMA Range 509-13,100

WIRE SIZE



MATERIAL: COPPER

Wire Range	NON-INSULATED						INSULATED (VINYL)				
	NIT	NIT Brazed	L In.	L mm	Barrel I.D. In.	Barrel I.D. mm	Funnel FIT	L In.	L mm	Insul. Color	Hand Tool
22-16	42216	42216B	1.19	30.23	.061	1.55	412216F	1.71	43.43	Red	H7B
16-14	41614	41614B	1.11	28.19	.085	2.16	411614F	1.66	42.16	Blue	H7B
12-10	41210	41210B	1.11	28.19	.131	3.33	411210F	1.77	44.96	Yellow	H6E
Hand Tool	H4A	H4A					See End Column				



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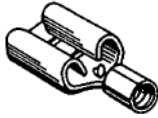
Quick Disconnect Terminals for Wire Sizes 26 – 10 AWG

BASIC BARREL STYLES

NIT Non-Insulated Terminal

Consists of a bare terminal with butted seam barrel

- Chamfered barrel end for fast, easy wire insertion
- Highly economical



NIT-IG Non-Insulated Terminal with Insulation Grip

Same as basic NIT with addition of "U" extension to firmly grip the wire insulation.

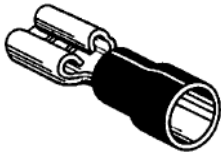
- Prevent insulation from unraveling
- Protects against high vibration failures.



FUNNEL FIT Fixed Insulated Terminal with Funnel Entry

An assembly of a bare terminal with a tightly fitted funneled insulation sleeve made from PVC.

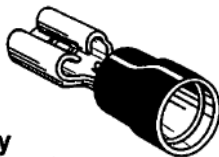
- Offers excellent insulating properties
- Resists minor vibrations
- Funnel Entry for fast, easy wire insertion
- Color coded to standard commercial specifications



FUNNEL FIIG Fixed Insulated Insulation Grip with Funnel Entry

An assembly of a bare terminal and a copper sleeve (both electro-tin plated), and a tightly fitted insulation sleeve made from PVC or nylon.

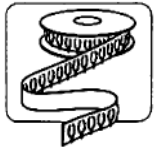
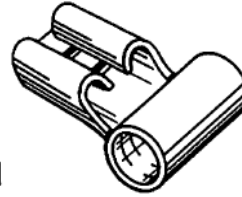
- Copper sleeve firmly grips wire insulation to protect against high vibration failures
- Color coded to standard commercial specifications
- Funnel entry for fast, easy wire insertion. Protects against wire strand hang-up, speeds production
- Offers utmost in quality, reliability and performance



FLAG SLIP-ON

A female slip-on with tongue opposed 90° to the barrel

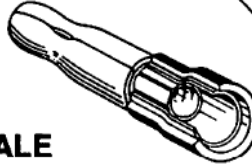
- Ideal for situation where space limitations exist
- Many designed primarily for automatic crimp machine application



MALE PLUGS

Available in NIT, NIT-IG, Funnel FIT and Funnel FIIG styles in .156" and .180" diameters (Funnel FIIG illustrated)

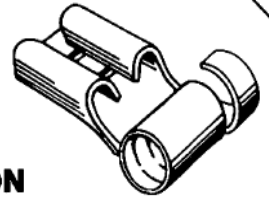
- Fits inside bullet receptacle of the same diameter
- Provides reliable in-line connection



FLAG-IG SLIP-ON

A female slip-on with tongue opposed 90° to the barrel, with addition of "U" extension to firmly grip the wire insulation

- Prevents insulation from unraveling
- Ideal for situation where space limitations exist
- Protects against high vibration failures

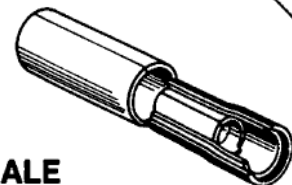


FEMALE RECEPTACLES

Available in NIT, NIT-IG, Funnel FIT, Funnel FIIG and Fully Insulated FIT Flared styles (Funnel Entry FIIG illustrated)

- Accepts bullet plug of same diameter—.156" and .180"

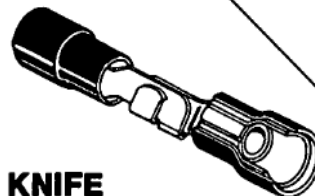
- Funnel FIT or Funnel FIIG plug used with Fully Insulated FIT Flared receptacle provides fully insulated in-line connection. Helps prevent shorting or flash-over when disconnect with power on.



KNIFE DISCONNECTS

Available in NIT, MG* and Funnel FIIG styles (Funnel FIIG pair illustrated)

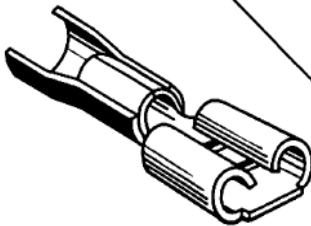
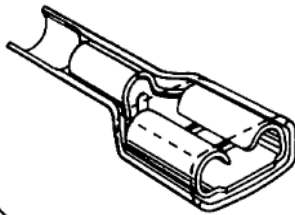
- Always used in pairs, tongue is so shaped that two like parts are locked together, yet has advantage of a quick disconnect.
 - Connection will not pull apart; in fact, the harder the pull, the tighter the connection
- "MG" stands for the metal grip that is attached to the NIT. The metal-grip sleeve acts as an insulation support where vibration is a problem, but insulation is not needed.*



This section contains three different kinds of quick disconnect terminals: slip-ons, bullet connectors and knife disconnects. The slip-on and bullet receptacle lines are available fully insulated. Female slip-ons and bullet receptacles have wire stops to prevent wire from entering the

tongue area. All terminals in this section are electro-tin plated to ensure corrosion resistance. Serrated "V" grooves in the barrel of each terminal firmly grip the wire to assure maximum holding power, and all insulated parts are color coded to standard commercial specifications.

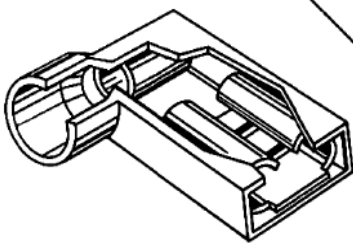
All Quick Disconnect terminals illustrated, are available tape mounted for fast, automatic crimping in the Hollingsworth H270 Crimping Machine.



FEMALE SLIP-ONS

Available in NIT, NIT-IG, Funnel FIT and Funnel FIIG styles (Funnel FIT illustrated)

- Mates with Male Slip-On or Tab
- Provides quick and easy disconnection of wires
- Illustrated Funnel Entry eliminates wire strand hang-up and speeds production



FISO FLAG SLIP-ON

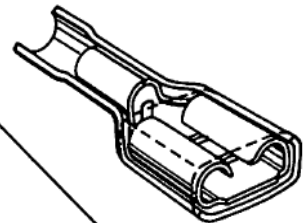
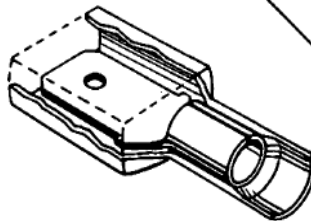
An assembly of a bare flag slip-on fully encased in vinyl insulation

- Eliminates post-insulation
- This line of right angle parts provides design and packaging flexibility where space is a limitation and a fully insulated connection is called for
- Helps prevent shorting or flash-over when disconnected with power on
- Available in two popular wire sizes—22/18 and 16/14 AWG

FULLY INSULATED FEMALE SLIP-ONS (FISO)

Available in FIT Flared and Funnel FIIG styles (Funnel FIT illustrated). An assembly of a bare roll-formed female slip-on, fully encased in vinyl

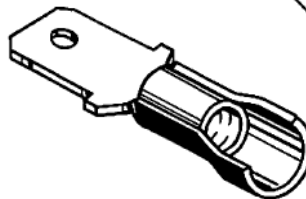
- Helps prevent shorting or flash-over when disconnected with power on
- Eliminates time consuming and costly post-insulation
- Use with Funnel FIT or Funnel FIIG male slip-on to provide fully insulated in-line connection



FULLY INSULATED NYLON COUPLERS

A male and a female slip-on encased in nylon, that when connected form a fully insulated assembly

- Eliminates post-insulation
- Helps prevent shorting or flash-over when disconnected with power on
- Mating male and female available in two popular wire sizes—22/18 and 16/14 AWG
- The female housing fits entirely inside the male to form a fully insulated in-line splice



PIGGY BACK SLIP-ONS



MALE SLIP-ON

Available in NIT, NIT-IG, Funnel FIT and Funnel FIIG styles (Funnel FIT illustrated)

- Mates with Female Slip-Ons and Fully Insulated Female Slip-Ons (FISO)
- Provides quick and easy disconnection of wires
- Illustrated Funnel Entry speeds production by eliminating wire strand hang-up



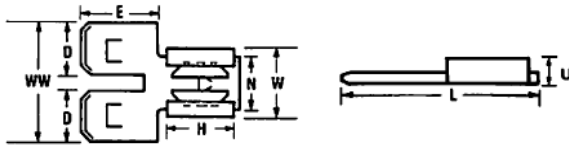
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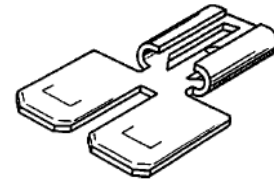
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Double Male Tab Single Female Slip-On



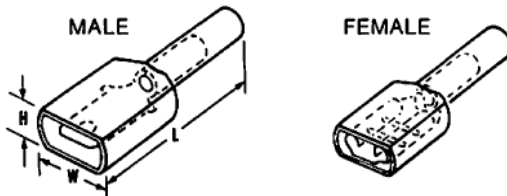
MATERIAL: BRASS THICKNESS: .032"/.813 mm



DIMENSIONS																
NIT	L	L	WW	WW	D	D	E	E	H	H	W	W	U	U	N	N
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
41B+	.78	19.81	.572	14.53	.253	6.43	.315	8.00	.318	8.08	.324	8.23	.105	2.67	.250	6.35

41B is unplated; for electro-tin plated part, specify 43B.

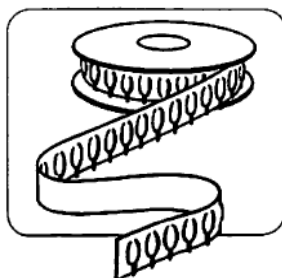
22/18 • 16/14 WIRE SIZE Fully Insulated Nylon Couplers



MATERIAL: BRASS

Type	Wire Size	NEMA Tab	W In.	W mm	L In.	L mm	H In.	H mm	Insul. Dia. In.	Insul. Dia. mm	Hand Tool	FIT	Mat. Thickness In.	Mat. Thickness mm	CMA Range
Male	22-18	.032 x .250	.48	12.19	1.05	26.67	.29	7.37	.155	3.94	H7B	S05078	.032	813	509-2050
Female	22-18	.032 x .250	.40	10.16	.98	24.89	.22	5.59	.128	3.25	H13	S05077	.018	457	509-2050
Male	16-14	.032 x .250	.48	12.19	1.03	26.16	.30	7.62	.180	4.57	H7B	S05076	.032	813	2050-5180
Female	16-14	.032 x .250	.40	10.16	.96	24.38	.22	5.59	.150	3.81	H13	S05075	.018	457	2050-5180

Either Male will connect with corresponding Female, regardless of wire size.

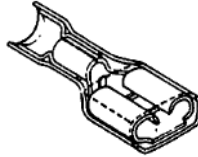
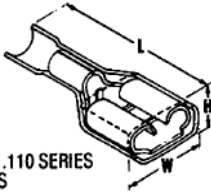


All items listed on this page (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number.
Example: S05078-T.

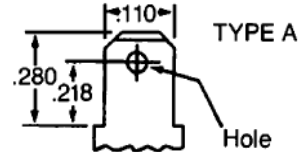
26/24 Fully Insulated Slip-Ons (FISO)

WIRE SIZE

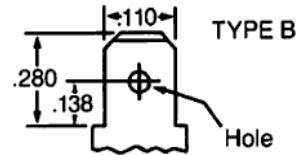
CMA Range 202-320 • Barrel Inside Diameter .040"/1.02 mm – .110 Series
.034"/.864 mm – All Other Series



MATERIAL: BRASS
THICKNESS: .012"/.305mm — .110 SERIES
.018"/.457mm — ALL OTHERS



Mating .110 series tab
Dimensions type A



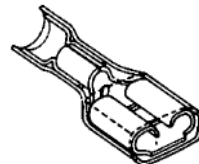
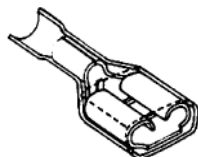
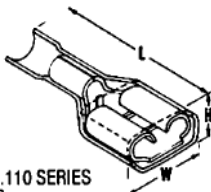
Mating .110 series tab
Dimensions type B

BASIC DIMENSIONS								INSUL. (YELLOW VINYL)	
NEMA TAB	W In.	W mm	L In.	L mm	H In.	H mm	TAB	INSUL. DIA. .118"/2.99 mm	
								Funnel FIG	Hand Tool H270 Die
.020 x .110	.21	5.33	.73	18.54	.17	4.32	B	XS09762S	H-13*
.020 x .110	.21	5.33	.73	18.54	.17	4.32	A	XS09761S	H-13*
.032 x .110	.21	5.33	.73	18.54	.17	4.32	B	XS09764S	H-13*
.032 x .110	.21	5.33	.73	18.54	.17	4.32	A	XS09763S	H-13*
.020 x .187	.32	8.13	.92	23.37	.19	4.83		XS09765	27014A
.032 x .187	.32	8.13	.92	23.37	.19	4.83		XS09766	27014A
.020 x .205	.32	8.13	.92	23.37	.19	4.83		XS09767	27014A
.032 x .205	.32	8.13	.92	23.37	.19	4.83		XS09768	27014A
.032 x .250	.37	9.40	.95	24.13	.21	5.33		XS09769	27014A

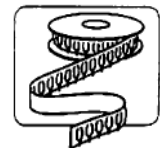
22/18 Fully Insulated Slip-Ons (FISO)

WIRE SIZE

CMA Range 509-2050 • Barrel Inside Diameter .064"/1.63 mm – .110 Series
.057"/1.45 mm – All Other Series



MATERIAL: BRASS
THICKNESS: .012"/.305mm — .110 SERIES
.018"/.457mm — ALL OTHERS



BASIC DIMENSIONS								INSULATED (RED VINYL)			
NEMA TAB	W In.	W mm	L In.	L mm	H In.	H mm	TAB	INSUL. DIA. .125"/3.18 mm		INSUL. DIA. .117"/2.97 mm	
								FIT Flared	Hand Tool H270 Die	Funnel FIG	Hand Tool H270 Die
.020 x .110	.21	5.33	.73	18.54	.15	3.81	A	S05316SF	H8A4	XS09770S	H-13*
.020 x .110	.21	5.33	.73	18.54	.15	3.81	B	S053178F	H8A4	XS09771S	H-13*
.032 x .110	.21	5.33	.73	18.54	.15	3.81	A	S053188F	H8A4	XS09772S	H-13*
.032 x .110	.21	5.33	.73	18.54	.15	3.81	B	S053198F	H8A4	XS09773S	H-13*
.020 x .187	.32	8.13	.92	23.37	.19	4.83		S05304F	H13	XS09774	H43
.032 x .187	.32	8.13	.92	23.37	.19	4.83		S05303F	H13	XS09775	H43
.020 x .205	.32	8.13	.92	23.37	.19	4.83		S05302F	H13	XS09776	H43
.020 x .205	.32	8.13	.92	23.37	.19	4.83		S05301F	H13	XS09777	H43
.032 x .250	.37	9.40	.95	24.13	.21	5.33		S05300F	H13	XS09778	H43

All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: XS09761S-T.

*Locator Blade 13-023 to be ordered in addition to Hand Tool.



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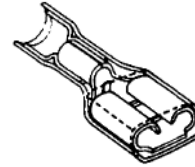
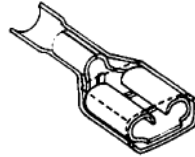
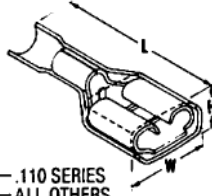
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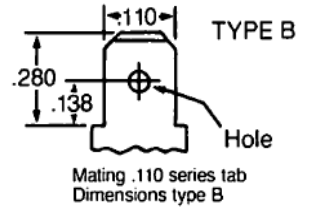
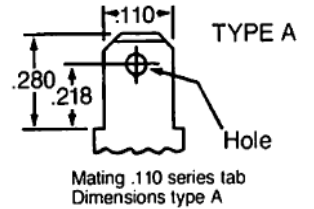
16/14 Fully Insulated Slip-Ons (FISO)

WIRE SIZE CMA Range 2050-5180 • Barrel Inside Diameter .090"/2.29 mm – .110 Series
.081"/2.06 mm – All Others



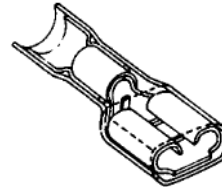
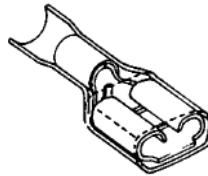
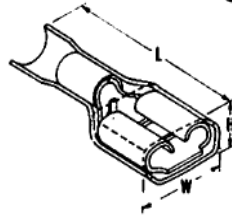
MATERIAL: BRASS
THICKNESS: .012"/.305 mm — .110 SERIES
.018"/.457 mm — ALL OTHERS

BASIC DIMENSIONS								INSULATED (BLUE VINYL)			
NEMA TAB	W In.	W mm	L In.	L mm	H In.	H mm	TAB	INSUL. DIA. .160"/4.06 mm		INSUL. DIA. .146"/3.71 mm	
								FIT Flared	Hand Tool H270 Die	Funnel FIIG	Hand Tool H270 Die
.020 x .110	.21	5.33	.73	18.54	.20	5.08	A	S05320SF	H8A4	XS09779S	H13*
.020 x .110	.21	5.33	.73	18.54	.20	5.08	B	S05321SF [†]	H8A4	XS09780S [†]	H13*
.032 x .110	.21	5.33	.73	18.54	.20	5.08	A	S05322SF	H8A4	XS09781S	H13*
.032 x .110	.21	5.33	.73	18.54	.20	5.08	B	S05323SF [†]	H8A4	XS09782S [†]	H13*
.020 x .187	.32	8.13	.92	23.37	.20	5.08		S05309F	H13	XS09783	H43
.032 x .187	.32	8.13	.92	23.37	.20	5.08		S05308F	H13	XS09784	H43
.020 x .205	.32	8.13	.92	23.37	.20	5.08		S05307F	H13	XS09785	H43
.032 x .205	.32	8.13	.92	23.37	.20	5.08		S05306F	H13	XS09786	H43
.032 x .250	.38	9.65	.95	24.13	.22	5.59		S05305F	H13	XS09787	H43



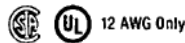
12/10 Fully Insulated Slip-Ons (FISO)

WIRE SIZE CMA Range 5180-13,100 • Barrel Inside Diameter .130"/3.30 mm

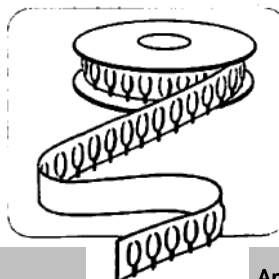


MATERIAL: BRASS
THICKNESS: .018"/.457 mm

BASIC DIMENSIONS								INSULATED (YELLOW VINYL)			
NEMA TAB	W In.	W mm	L In.	L mm	H In.	H mm	TAB	INSUL. DIA. .270"/6.86 mm		INSUL. DIA. .239"/6.07 mm	
								FIT Flared	Hand Tool	Funnel FIIG	Hand Tool
.032 x .250	.36	9.14	1.07	27.18	.33	8.38		S05315F	H6E	XS09788	H6EB



N* Items on this spread are also available in nylon. To order, add N suffix to catalog number. Example: XS074905SN.



All items listed on this spread (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.

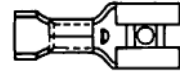
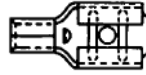
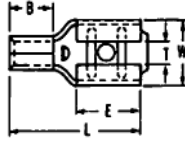
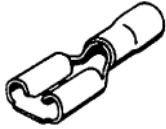
Example: S05320SF-T or XS074905SN.

*Locator Blade 13-023 to be ordered in addition to Hand Tool.

26/24 Female Slip-Ons CMA Range 202-320

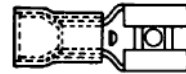
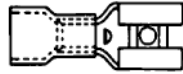
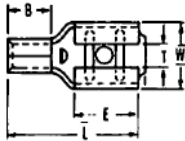
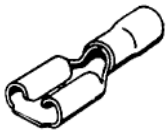
WIRE SIZE

Barrel Inside Diameter .040"/1.02 mm - .110 Series • .034"/.864 mm - All Others



MATERIAL: BRASS
THICKNESS: .012" .305 mm 110 and .125 SERIES
.018" .457 mm ALL OTHERS

BASIC DIMENSIONS											NON-INSULATED						
NEMA TAB	W In.	W mm	T In.	T mm	E In.	E mm	FITS TAB	B In.	B mm		L In.	L mm	Hand Tool H270 Die	NIT-IG	L In.	L mm	Hand Tool H270 Die
.020 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S074709S	.49	12.45	27169	S074765S†	.63	16.00	27078B
.020 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S074702S	.49	12.45	27169	S074758S†	.63	16.00	27078B
.032 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S074711S	.49	12.45	27169	S074767S†	.63	16.00	27078B
.032 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S074704S	.49	12.45	27169	S074760S†	.63	16.00	27078B
.020 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S074723S	.49	12.45	27169	S074779S†	.63	16.00	27078B
.020 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S074716S	.49	12.45	27169	S074772S†	.63	16.00	27078B
.032 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S074725S	.49	12.45	27169	S074781S†	.63	16.00	27078B
.032 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S074718S	.49	12.45	27169	S074774S†	.63	16.00	27078B
.020 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09202S	.57	14.48	27008	S09208S†	.72	18.29	27078B
.032 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09197S	.57	14.48	27008	S09201S†	.72	18.29	27078B
.020 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09192S	.59	14.99	27008	S09196S†	.72	18.29	27078B
.032 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09186S	.59	14.99	27008	S09191S†	.73	18.54	27078B
.032 x .250	.300	7.62	.065	1.65	.300	7.62		.17	4.32	S09181S	.64	16.26	27008	S09185S†	.78	19.81	27078B



BASIC DIMENSIONS											INSULATED					
NEMA TAB	W In.	W mm	T In.	T mm	E In.	E mm	FITS TAB	B In.	B mm	(YELLOW NYLON)			(YELLOW VINYL)			
										INSUL. DIA. .095"/2.41 mm	FUNNEL FIT	L In.	L mm	INSUL. DIA. .092"/2.34 mm	FUNNEL FIG	L In.
.020 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S074821SFN+	.68	17.27	XS074905S+	.76	19.30	
.020 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S074814SFN+	.68	17.27	XS074898S+	.76	19.30	
.032 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S074823SFN+	.68	17.27	XS074907S+	.76	19.30	
.032 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S074816SFN+	.68	17.27	XS074900S+	.76	19.30	
.020 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S074835SFN+	.68	17.27	XS074919S+	.76	19.30	
.020 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S074828SFN+	.68	17.27	XS074912S+	.76	19.30	
.032 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S074837SFN+	.68	17.27	XS074921S+	.76	19.30	
.032 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S074830SFN+	.68	17.27	XS074914S+	.76	19.30	
.020 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09204SFN+	.77	19.56	XS09207S+	.86	21.84	
.032 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09199SFN+	.77	19.56	XS09200S+	.86	21.84	
.020 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09194SFN+	.77	19.56	XS09195S+	.86	21.84	
.032 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09188SFN+	.77	19.56	XS09189S+	.86	21.84	
.032 x .250	.300	7.62	.065	1.65	.300	7.62		.17	4.32	S09183SFN+	.82	20.83	XS09184S+	.91	23.11	
Hand Tool											H8A					

N*



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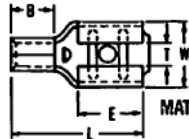
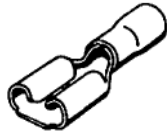
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22/18 Female Slip-Ons

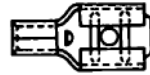
WIRE SIZE

CMA Range 509-2050

Barrel Inside Diameter .064"/1.63 mm—.110 Series • .057"/1.45 mm—All Others

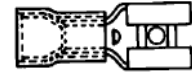
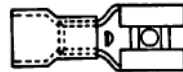
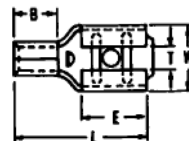
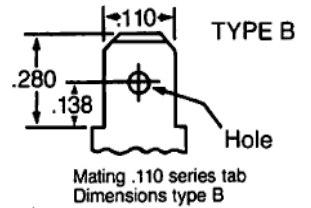
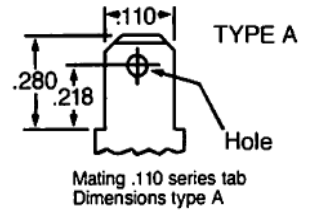


MATERIAL: BRASS



THICKNESS: .012"/.305 mm—.110 and .125 SERIES
.018"/.457 mm—ALL OTHERS

BASIC DIMENSIONS										NON-INSULATED					
NEMA TAB	W In.	W mm	T In.	T mm	E In.	E mm	FITS TAB	B In.	B mm	NIT	L In.	L mm	NIT-IG	L In.	L mm
.020 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S070904S	.49	12.45	S070931S	.63	16.00
.020 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S01120S	.49	12.45	S01126S	.63	16.00
.032 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S070905S	.49	12.45	S070932S	.63	16.00
.032 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S01130S	.49	12.45	S01136S	.63	16.00
.020 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S01190S	.49	12.45	S01225S	.63	16.00
.020 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S09466S	.49	12.45	S01226S	.63	16.00
.032 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S09471S	.49	12.45	S01229S	.63	16.00
.032 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S09470S	.49	12.45	S01230S	.63	16.00
.020 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09604S	.57	14.48	S09609S	.71	18.03
.032 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09602S	.57	14.48	S09607S	.71	18.03
.020 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09603S	.57	14.48	S09608S	.71	18.03
.032 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09601S	.57	14.48	S09606S	.71	18.03
.032 x .250	.300	7.62	.065	1.65	.300	7.62		.17	4.32	S09600S	.62	15.75	S09605S	.76	19.30
Hand Tool										H12			H12		



BASIC DIMENSIONS										INSULATED (RED VINYL)							
NEMA TAB	W In.	W mm	T In.	T mm	E In.	E mm	FITS TAB	B In.	B mm	INSUL. DIA. .125"/3.18mm			INSUL. DIA. .118"/3.00mm				
										Funnel FIT	L In.	L mm	Hand Tool H270 Die	Funnel FIT	L In.	L mm	Hand Tool H270 Die
.020 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S070908SF	.78	19.81	H8A4	XS070910S	.78	19.81	H13*
.020 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S01121SF	.78	19.81	H8A4	XS01122S	.78	19.81	H13*
.032 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S070909SF	.78	19.81	H8A4	XS070911S	.78	19.81	H13*
.032 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S01131SF	.78	19.81	H8A4	XS01132S	.78	19.81	H13*
.020 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S012615SF	.78	19.81	H8A4	XS012625S	.78	19.81	H13*
.020 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S012616SF	.78	19.81	H8A4	XS012626S	.78	19.81	H13*
.032 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S012619SF	.78	19.81	H8A4	XS012629S	.78	19.81	H13*
.032 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S012620SF	.78	19.81	H8A4	XS012630S	.78	19.81	H13*
.020 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S08619SF	.86	21.84	H13	XS08624S	.86	21.84	H43
.032 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S08617SF	.86	21.84	H13	XS08622S	.86	21.84	H43
.020 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09618SF	.86	21.84	H13	XS09623S	.86	21.84	H43
.032 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09616SF	.86	21.84	H13	XS09621S	.86	21.84	H43
.032 x .250	.300	7.62	.065	1.65	.300	7.62		.17	4.32	S09615SF	.91	23.11	H13	XS09620S	.91	23.11	H43

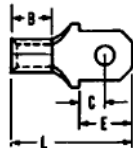
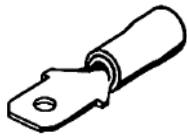


*Locator Blade 13-023 to be ordered in addition to Hand Tool.

22/18 Male Slip-Ons

WIRE SIZE CMA Range 509-2050

Barrel Inside Diameter .020 Series-.053"/1.35 mm • .032 Series-.056"/1.42 mm



MATERIAL: BRASS

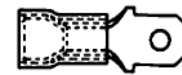
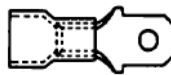
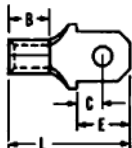


THICKNESS: .020"/.508 mm
.032"/.813 mm

BASIC DIMENSIONS								NON-INSULATED							
NEMA TAB	C In.	C mm	E In.	E mm	B In.	B mm	FITS TAB	NIT	L In.	L mm	Hand Tool	NIT-IG	L In.	L mm	Hand Tool
.020 x .110	.218	5.54	.280	7.11	.17	4.32	A	S09419S	.58	14.73	H12	S09427S	.72	18.29	H12
.020 x .110	.138	3.51	.280	7.11	.17	4.32	B	S09418S	.58	14.73	H12	S09426S	.72	18.29	H12
.020 x .187	.125	3.18	.250	6.35	.17	4.32		S09416S	.55	13.97	H12	S09424S	.69	17.53	H12
.032 x .187	.125	3.18	.250	6.35	.17	4.32		S09104S	.62	15.75	H4A				
.032 x .187	.125	3.18	.250	6.35	.26	6.60		S09104	.71	18.03	H4A				
.020 x .205	.125	3.18	.250	6.35	.17	4.32		S09417S	.55	13.97	H12	S09425S	.69	17.53	H12
.032 x .205	.125	3.18	.250	6.35	.17	4.32		S09105S	.62	15.75	H4A				
.032 x .205	.125	3.18	.250	6.35	.26	6.60		S09105	.71	18.03	H4A				
.032 x .250	.134	3.40	.307	7.80	.17	4.32		S09106S *	.67	17.02	H4A				
.032 x .250	.134	3.40	.307	7.80	.26	6.60		S09106 *	.76	19.30	H4A				



*Not UL Listed

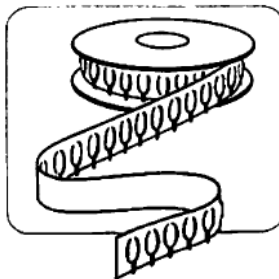


BASIC DIMENSIONS								INSULATED (RED VINYL)											
NEMA TAB	C In.	C mm	E In.	E mm	B In.	B mm	FITS TAB	Funnel FIT	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Hand Tool	Funnel FIG	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Hand Tool
.020 x .110	.218	5.54	.280	7.11	.17	4.32	A	S09447SF	.124	3.15	.86	21.84	H8A	XS09453S	.118	3.00	.85	21.59	H43
.020 x .110	.138	3.51	.280	7.11	.17	4.32	B	S09446SF	.124	3.15	.86	21.84	H8A	XS09452S	.118	3.00	.85	21.59	H43
.020 x .187	.125	3.18	.250	6.35	.17	4.32		S09444SF	.124	3.15	.83	21.08	H8A	XS09450S	.118	3.00	.82	20.83	H43
.032 x .187	.125	3.18	.250	6.35	.17	4.32		S09110SF	.160	4.06	.90	22.86	H7B	XS09115S	.146	3.71	.88	22.35	H7B
.032 x .187	.125	3.18	.250	6.35	.26	6.60		S09110F	.160	4.06	.97	24.64	H7B						
.020 x .205	.125	3.18	.250	6.35	.17	4.32		S09445SF	.124	3.15	.83	21.08	H8A	XS09451S	.118	3.00	.82	20.83	H43
.032 x .205	.125	3.18	.250	6.35	.17	4.32		S09112SF	.160	4.06	.90	22.86	H7B	XS09116S	.146	3.71	.88	22.35	H7B
.032 x .205	.125	3.18	.250	6.35	.26	6.60		S09112F	.160	4.06	.97	24.64	H7B						
.032 x .250	.134	3.40	.307	7.80	.17	4.32		S09113SF	.160	4.06	.95	24.13	H7B	XS09117S	.146	3.71	.96	24.38	H7B
.032 x .250	.134	3.40	.307	7.80	.26	6.60		S09113F	.160	4.06	1.02	25.91	H7B						



N* Items on this spread are also available in nylon. To order, add N suffix to catalog number.
Example: XS09453SN.

For metric dimensions of stud sizes on this spread, see page 43.



All items listed on this spread are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number.
Example: S09419S-T or XS09453SN-T.



Get quote >>

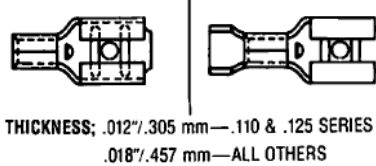
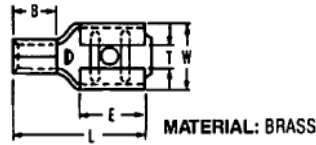
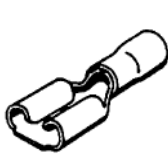
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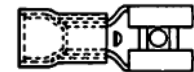
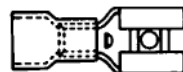
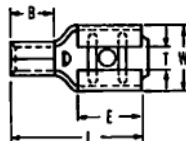
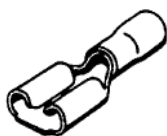
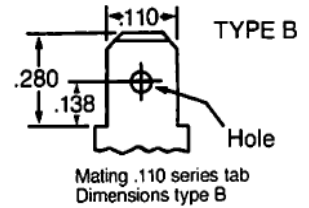
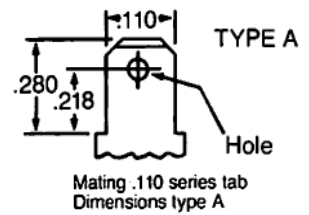
<https://www.AngicGlobal.com> Sales@AngicGlobal.com

16/14 Female Slip-Ons

WIRE SIZE CMA Range 2050-5180
 Barrel Inside Diameter .090"/2.29 mm-.110 Series • .081"/2.06 mm-All Others



BASIC DIMENSIONS										NON-INSULATED					
NEMA TAB	W In.	W mm	T In.	T mm	E In.	E mm	FITS TAB	B In.	B mm	NIT	L In.	L mm	NIT-IG	L In.	L mm
.020 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S070912S	.49	12.45	S070573S	.63	16.00
.020 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S01137S	.49	12.45	S070572S	.63	16.00
.032 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S070913S	.49	12.45	S070577S	.63	16.00
.032 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S01144S	.49	12.45	S070576S	.63	16.00
.020 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S09742S	.49	12.45	S01235S	.63	16.00
.020 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S09741S	.49	12.45	S01236S	.63	16.00
.032 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S09746S	.49	12.45	S01239S	.63	16.00
.032 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S09745S	.49	12.45	S01240S	.63	16.00
.020 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09704S	.57	14.48	S09709S	.72	18.29
.032 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09702S	.57	14.48	S09707S	.72	18.29
.020 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09703S	.57	14.48	S09708S	.72	18.29
.032 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09701S	.57	14.48	S09706S	.72	18.29
.032 x .250	.296	7.52	.065	1.65	.300	7.62		.17	4.32	S09700S	.62	15.75	S09705S	.77	19.56
Hand Tool										H12			H12		



BASIC DIMENSIONS										INSULATED (BLUE VINYL)							
NEMA TAB	W In.	W mm	T In.	T mm	E In.	E mm	FITS TAB	B In.	B mm	INSUL. DIA. .160"/4.06 mm			INSUL. DIA. .140"/3.56 mm				
										Funnel FIT	L In.	L mm	Hand Tool H270 Die	Funnel FIG	L In.	L mm	Hand Tool H270 Die
.020 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S070916SF	.78	19.81	H8A4	XS070918S	.78	19.81	H13*
.020 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S01125SF	.78	19.81	H8A4	XS01139S	.78	19.81	H13*
.032 x .110	.145	3.68	.036	.914	.250	6.35	A	.17	4.32	S070917SF	.78	19.81	H8A4	XS070919S	.78	19.81	H13*
.032 x .110	.145	3.68	.036	.914	.250	6.35	B	.17	4.32	S01135SF	.78	19.81	H8A4	XS01148S	.78	19.81	H13*
.020 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S012645SF	.78	19.81	H8A4	XS012655S	.78	19.81	H13*
.020 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S012646SF	.78	19.81	H8A4	XS012656S	.78	19.81	H13*
.032 x .125	.160	4.06	.039	.991	.250	6.35	A	.17	4.32	S012649SF	.78	19.81	H8A4	XS012659S	.78	19.81	H13*
.032 x .125	.160	4.06	.039	.991	.250	6.35	B	.17	4.32	S012650SF	.78	19.81	H8A4	XS012660S	.78	19.81	H13*
.020 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09722SF	.86	21.84	H13	XS09727S	.86	21.84	H43
.032 x .187	.233	5.92	.026	.660	.250	6.35		.17	4.32	S09720SF	.86	21.84	H13	XS09725S	.86	21.84	H43
.020 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09721SF	.86	21.84	H13	XS09726S	.86	21.84	H43
.032 x .205	.250	6.35	.026	.660	.250	6.35		.17	4.32	S09719SF	.86	21.84	H13	XS09724S	.86	21.84	H43
.032 x .250	.296	7.52	.065	1.65	.300	7.62		.17	4.32	S09718SF	.91	23.11	H13	XS09723S	.91	23.11	H43



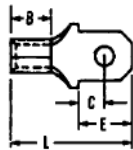
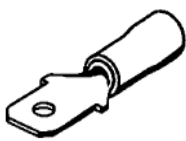
*Locator Blade 13-023 to be ordered in addition to Hand Tool.

16/14 Male Slip-Ons

WIRE SIZE

CMA Range 2050-5180

Barrel Inside Diameter .020 Series-.081"/2.06 mm • .032 Series-.085"/2.16 mm

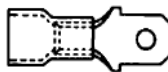
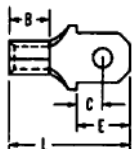


MATERIAL: BRASS



THICKNESS: .020"/.508 mm
.032"/.813 mm

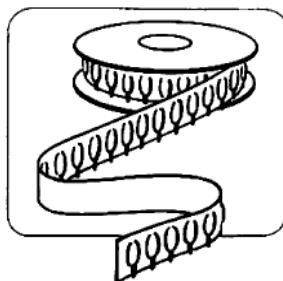
BASIC DIMENSIONS								NON-INSULATED							
NEMA TAB	C In.	C mm	E In.	E mm	B In.	B mm	FITS TAB	NIT	L In.	L mm	Hand Tool	NIT-IG	L In.	L mm	Hand Tool H270 Die
.020 x .110	.218	5.54	.280	7.11	.17	4.32	A	S09353S	.58	14.73	H12	S09363S	.72	18.29	27021A
.020 x .110	.138	3.50	.280	7.11	.17	4.32	B	S09352S	.58	14.73	H12	S09362S	.72	18.29	27021A
.020 x .187	.125	3.18	.250	6.35	.17	4.32		S09350S	.55	13.97	H12	S09360S	.69	17.53	H12
.032 x .187	.125	3.18	.250	6.35	.17	4.32		S09118S	.62	15.75	H4A				
.032 x .187	.125	3.18	.250	6.35	.26	6.60		S09118	.71	18.03	H4A				
.020 x .205	.125	3.18	.250	6.35	.17	4.32		S09351S	.55	13.97	H12	S09361S	.69	17.53	H12
.032 x .205	.125	3.18	.250	6.35	.17	4.32		S09119S	.62	15.75	H4A				
.032 x .205	.125	3.18	.250	6.35	.26	6.60		S09119	.71	18.03	H4A				
.032 x .250	.134	3.40	.312	7.92	.17	4.32		S09004S	.67	17.02	H4A				
.032 x .250	.134	3.40	.312	7.92	.26	6.60		S09003	.76	19.30	H4A				



BASIC DIMENSIONS								INSULATED (BLUE VINYL)											
NEMA TAB	C In.	C mm	E In.	E mm	B In.	B mm	FITS TAB	Funnel FIT	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Hand Tool	Funnel FIG	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Hand Tool H270 Die
.020 x .110	.218	5.54	.280	7.11	.17	4.32	A	S09383SF	.160	4.06	.87	22.10	H7B	XS09393S	.146	3.71	.87	22.10	27003B
.020 x .110	.138	3.51	.280	7.11	.17	4.32	B	S09382SF	.160	4.06	.87	22.10	H7B	XS09392S	.146	3.71	.87	22.10	27003B
.020 x .187	.125	3.18	.250	6.35	.17	4.32		S09380SF	.160	4.06	.83	21.08	H7B	XS09390S	.146	3.71	.84	21.34	H43
.032 x .187	.125	3.18	.250	6.35	.17	4.32		S09124SF	.195	4.95	.90	22.86	H7B	XS09126S	.178	4.52	.90	22.86	H7B
.032 x .187	.125	3.18	.250	6.35	.26	6.60		S09124F	.195	4.95	.97	24.64	H7B						
.020 x .205	.125	3.18	.250	6.35	.17	4.32		S09381SF	.160	4.06	.83	21.08	H7B	XS09391S	.146	3.71	.84	21.34	H43
.032 x .205	.125	3.18	.250	6.35	.17	4.32		S09125SF	.195	4.95	.90	22.86	H7B	XS09127S	.178	4.52	.90	22.86	H7B
.032 x .205	.125	3.18	.250	6.35	.26	6.60		S09125F	.195	4.95	1.03	26.16	H7B						
.032 x .250	.134	3.40	.312	7.92	.17	4.32		S09014SF+	.195	4.95	.96	24.38	H7B	XS09024S	.178	4.52	.95	24.13	H7B
.032 x .250	.134	3.40	.312	7.92	.26	6.60		S09013F	.198	5.03	1.04	26.42	H7B						



N* Items on this spread are also available in nylon. To order, add N suffix to catalog number. Example: XS070918SN.



All items listed on this spread (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number. Example S070912S-T or XS070918SN-T.



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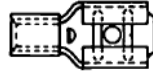
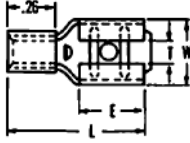
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12/10 Female Slip-Ons

CMA Range 5180-13,100
Barrel Inside Diameter .130"/3.30 mm

WIRE SIZE

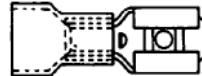
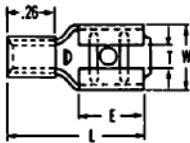


MATERIAL: BRASS THICKNESS: .018"/.457 mm

BASIC DIMENSIONS						NON-INSULATED										
NEMA TAB	W In.	W mm	T In.	T mm		NIT	E In.	E mm	L In.	L mm	Hand Tool	NIT-IG	E In.	E mm	L In.	L mm
.020 x .187	.233	5.92	.026	.660		S09308 (UL)	.250	6.35	.69	17.53	H4A					
.032 x .187	.233	5.92	.026	.660		S09312 (UL)	.250	6.35	.69	17.53	H4A					
.032 x .250	.300	7.62	.065	1.65		S09300 (UL)	.300	7.62	.72	18.29	H4A	S09180	.300	7.62	.89	22.61
.032 x .250	.300	7.62	.065	1.65		S09176	.300	7.62	.72	18.29	27058					

(UL) UL Listed for 12 AWG Only

(UL) UL Listed for 12 AWG Only

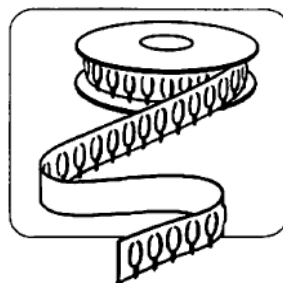


BASIC DIMENSIONS						INSULATED (YELLOW VINYL)									
NEMA TAB	W In.	W mm	T In.	T mm		INSUL. DIA. .265"/6.73 mm					INSUL. DIA. .239"/6.07 mm				
						Funnel FIT	E In.	E mm	L In.	L mm	Funnel FIG	E In.	E mm	L In.	L mm
.020 x .187	.233	5.92	.026	.660		S09309F	.250	6.35	1.00	25.40	XS09310	.250	6.35	1.02	25.91
.032 x .187	.233	5.92	.026	.660		S09313F	.250	6.35	1.00	25.40	XS09314	.250	6.35	1.02	25.91
.032 x .250	.300	7.62	.065	1.65		S09301F	.300	7.62	1.06	26.92	XS09302	.300	7.62	1.06	26.92
Hand Tool						H6E					H6E				

(UL) UL Listed for 12 AWG Only

(UL) UL Listed for 12 AWG Only

N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XS09310N.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: S09308-T or XS09310N-T.

22/18 • 16/14 • 12/10 WIRE SIZE Formed Male Slip-Ons



BASIC DIMENSIONS							NON-INSULATED							
WIRE SIZE	CMA RANGE	NEMA TAB	B In.	B mm	Ins. Barrel Dia. In.	Ins. Barrel Dia. mm	NIT	L In.	L mm	Hand Tool	NIT-IG	L In.	L mm	Hand Tool H270 Die
22-18	509-2050	.032 x .250	.17	4.32	.061	1.55	S072950S	.72	18.29	H12	S072966S	.87	22.10	H12
16-14	2050-5180	.032 x .250	.17	4.32	.085	2.16	S072951S	.72	18.29	H12	S072967S	.87	22.10	H12
12-10	5180-13,100	.032 x .250	.26	6.60	.134	3.40	S072960*	.83	21.08	H4A	S072968*	.97	24.64	27076A

UL *UL Listed for 12 AWG only

UL *Not CSA Listed *UL Listed for 12 AWG only



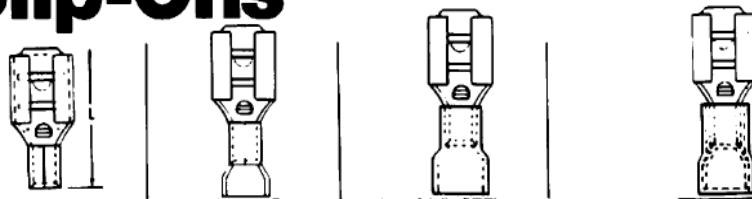
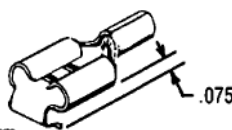
BASIC DIMENSIONS							INSULATED (VINYL)												
WIRE SIZE	CMA RANGE	NEMA TAB	B In.	B mm	Ins. Barrel Dia. In.	Ins. Barrel Dia. mm	Funnel FIT	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Hand Tool	Funnel FIG	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Hand Tool	Insul. Color
22-18	509-2050	.032 x .250	.17	4.32	.061	1.55	S072977SF	.125	3.18	1.00	25.40	H13	XS072985S	.118	3.00	.99	25.15	H43	Red
16-14	2050-5180	.032 x .250	.17	4.32	.085	2.16	S072978SF	.160	4.06	1.00	25.40	H13	XS072986S	.146	3.71	1.01	25.65	H43	Blue
12-10	5180-13,100	.032 x .250	.26	6.60	.134	3.40	S072976F*	.265	6.73	1.12	28.45	H6E	XS072984*	.239	6.07	1.19	30.23	H6E	Yellow

*UL Listed for 12 AWG only

N* *UL Listed for 12 AWG only

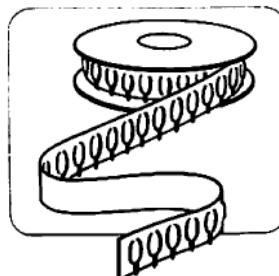
22/18 • 16/14 • 12/10 WIRE SIZE Piggy Back Slip-Ons

MATERIAL: BRASS
THICKNESS: .016" / .406mm



BASIC DIMENSIONS					NON-INSULATED					INSULATED (Vinyl)								
INSUL COLOR	BARREL I.D. IN./mm	CMA RANGE	WIRE RANGE	NEMA TAB	NIT	L	HAND TOOL H270 DIE	NIT/I.G.	L	HAND TOOL H270 DIE	FUNNEL FIT	INS. DIA.	L	HAND TOOL H270 DIE	FUNNEL FIG	INS. DIA.	L	HAND TOOL H270 DIE
RED	.061"/1.55	509 - 2050	22 - 18	.032 x .250	S073159S	.60	H12	S073161S	.76	H12	S073163SF	.125	.88	H13	XS073165S	.118	.88	H43
BLUE	.085"/2.16	2050 - 5180	16 - 14	.032 x .250	S073170S	.60	H12	S073172S	.76	H12	S073174SF	.160	.88	H13	XS073176S	.146	.88	H43
YELL	.134"/3.40	5180 - 13,100	12 - 10	.032 x .250	S073181	.75	H4A	S073183	.76	27139	S073185F	.265	1.01	H6E	XS073187	.227	1.03	H6E

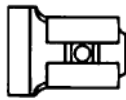
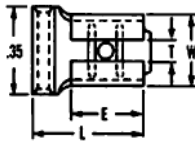
N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XS072985SN.



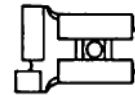
All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: S072950-T or XS072985SN-T.

22/18 • 16/14 • 12/10 Flag Slip-Ons

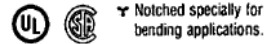
WIRE SIZES



MATERIAL: BRASS
THICKNESS: .018"/.457 mm

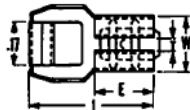


BASIC DIMENSIONS							NON-INSULATED											
Wire Size	CMA Range	NEMA TAB	W In.	W mm	T In.	T mm	NIT	E In.	E mm	L In.	L mm	NIT-IG	E In.	E mm	L In.	L mm		
22-18	509-2050	.032 x .250	.296	7.52	.065	1.65						S09405	.300	7.62	.57	14.48		
16-14	2050-5180	.032 x .250	.296	7.52	.065	1.65						S09410	.300	7.62	.59	14.99		
16-14	2050-5180	.032 x .250	.296	7.52	.120	3.05						S09411*	.300	7.62	.59	14.99		
12-10	5180-13,100	.032 x .250	.296	7.52	.065	1.65	S09415 *	.300	7.62	.60	15.24							
12-10	5180-13,100	.032 x .250	.296	7.52	.120	3.05	S09413*	.300	7.62	.60	15.24							
Hand Tool/H270 Die							H4A3						H12					

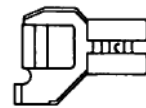


22/18 • 16/14 • 12/10 Flag Slip-Ons[§]

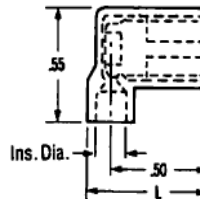
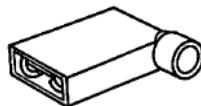
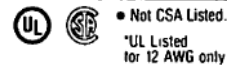
WIRE SIZES



MATERIAL: BRASS
THICKNESS: .018"/.457 mm



BASIC DIMENSIONS							NON-INSULATED									
Wire Size	CMA Range	NEMA TAB	W In.	W mm	T In.	T mm	NIT	E In.	E mm	L In.	L mm	NIT-IG	E In.	E mm	L In.	L mm
22-18	509-2050	.032 x .250	.300	7.62	.065	1.65	S09478S	.300	7.62	.53	13.46	S09479S	.300	7.62	.53	13.46
16-14	2050-5180	.032 x .250	.300	7.62	.065	1.65	S09487S	.300	7.62	.55	13.97	S09488S	.300	7.62	.55	13.97
12-10	5180-13,100	.032 x .250	.300	7.62	.065	1.65	S09489S *	.300	7.62	.68	17.27	S09490S *	.300	7.62	.68	17.27



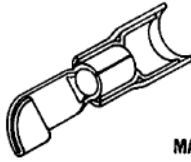
BASIC DIMENSIONS							FULLY INSULATED							
Wire Size	CMA Range	NEMA TAB	W In.	W mm	T In.	T mm	FISO FIT F	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Ins./Bbl. Dia. In.	Insul. Color	Hand Tool
22-18	509-2050	.032 x .250	.300	7.62	.065	1.65	S05360SF	.160	4.06	.611	15.52	.057	1.45	Red Nylon H46
16-14	2050-5180	.032 x .250	.300	7.62	.065	1.65	S05363SF	.182	4.62	.625	15.88	.081	2.06	Blue Nylon H47



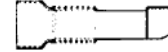
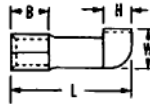
§ Designed primarily for Automatic Crimp Machine Application

22/16 • 16/14 • 12/10 Knife Disconnects

WIRE SIZE

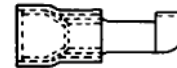
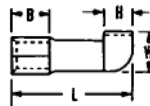
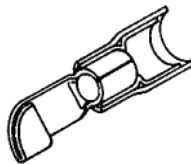


MATERIAL: COPPER



BASIC DIMENSIONS											NON-INSULATED							
Wire Size	CMA Range	Mat. Thickness		Ins. Bbl. Dia.		H	H	W	W	B	B	NIT	L	L	MG	L	L	Hand Tool
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		In.	mm		In.	mm	H270 Die
22-16	509-3260	.030	.762	.061	1.55	.15	3.81	.20	5.08	.17	4.32	K5910S	.63	16.00	K5913S	.80	20.32	27089
16-14	2050-5180	.032	.813	.085	2.16	.15	3.81	.20	5.08	.17	4.32	K5911S	.63	16.00	K5914S	.80	20.32	27092
12-10	5180-13,100	.040	1.02	.131	3.33	.22	5.59	.28	7.11	.27	6.86	K5912	.94	23.88	K5915	1.18	29.97	27095
Hand Tool											H4A		See end column					

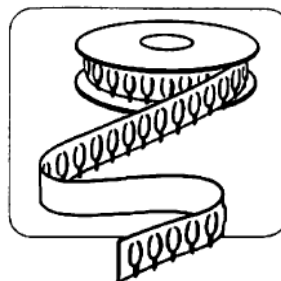
N



BASIC DIMENSIONS											INSULATED (VINYL)							
Wire Size	CMA Range	Mat. Thickness		Ins. Bbl. Dia.		H	H	W	W	B	B	Funnel FIG	Insul. Dia.	L	L	Insul. Color	Hand Tool	
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		In.	mm	In.	mm		
22-16	509-3260	.030	.762	.061	1.55	.15	3.81	.20	5.08	.17	4.32	XK5919S	.146	3.71	.90	22.86	Red	H7B
16-14	2050-5180	.032	.813	.085	2.16	.15	3.81	.20	5.08	.17	4.32	XK5920S	.172	4.37	.90	22.86	Blue	H7B
12-10	5180-13,100	.040	1.02	.131	3.33	.22	5.59	.28	7.11	.27	6.86	XK5921	.227	5.77	1.26	32.00	Yellow	H6E

N*

N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: XK5919SN.



All items listed on this spread are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number.
Example: XK5910S-T or K5919SN-T.



Get quote >>

Angic Global Solutions

1-888-872-0690

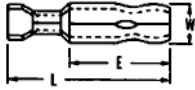
<https://www.AngicGlobal.com> Sales@AngicGlobal.com

22/18 Male Plugs

WIRE SIZE

CMA Range 509-2050

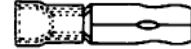
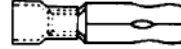
Barrel Inside Diameter .057"/1.49 mm



MATERIAL: BRASS



THICKNESS: .018"/.457 mm



BASIC DIMENSIONS				NON-INSULATED						INSULATED (RED VINYL)					
W	W	E	E	NON-INSULATED			NON-INSULATED			INSULATED (RED VINYL)			INSULATED (RED VINYL)		
In.	mm	In.	mm	NIT	L	L	NIT-IG	L	L	Funnel FIT	L	L	Funnel FIG	L	L
					In.	mm		In.	mm		In.	mm		In.	mm
.156	3.96	.345	8.76	MP9654S	.63	16.00	MP9660S	.76	19.30	MP9656SF	.91	23.11	XMP9658S	.90	22.86
.180	4.57	.447	11.35	MP9655S	.67	17.01	MP9661S	.80	20.32	MP9657SF	.96	24.38	XMP9659S	.94	23.87
Hand Tool				H12			H12			H13			H43		

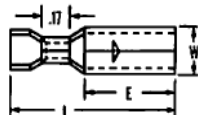
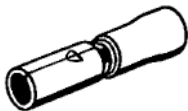


22/18 Receptacles

WIRE SIZE

CMA Range 509-2050

Barrel Inside Diameter .061"/1.55 mm



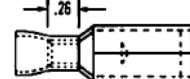
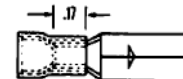
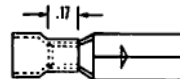
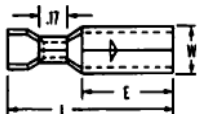
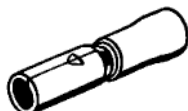
MATERIAL: BRASS



THICKNESS: .016"/.406 mm

BASIC DIMENSIONS						NON-INSULATED					
W	W	E	E	Male Plug	Male Plug	NON-INSULATED			NON-INSULATED		
In.	mm	In.	mm	Dia. In.	Dia. mm	NIT	L	L	NIT-IG	L	L
							In.	mm		In.	mm
.18	4.57	.345	8.76	.156	3.96	FP9670S*	.62	15.75	FP9672S*	.76	19.30
.18	4.57	.345	8.76	.156	3.96	FP9692S	.62	15.75	FP9698S	.76	19.30
.21	5.33	.420	10.67	.180	4.57	FP9671S*	.67	17.02	FP9673S*	.80	20.32
.21	5.33	.420	10.67	.180	4.57	FP9693S	.67	17.02	FP9699S	.80	20.32
Hand Tool						H12			H12		

*Designates part without detent.

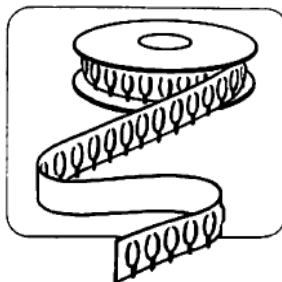


BASIC DIMENSIONS						INSULATED (RED VINYL)								
W	W	E	E	Male Plug	Male Plug	INSULATED (RED VINYL)			INSULATED (RED VINYL)			INSULATED (RED VINYL)		
In.	mm	In.	mm	Dia. In.	Dia. mm	INSUL. DIA.	L	L	INSUL. DIA.	L	L	INSUL. DIA.	L	L
						.124"/3.15 mm	In.	mm	.118"/3.00 mm	In.	mm	.125"/3.18 mm	In.	mm
.18	4.57	.345	8.76	.156	3.96	FP9651SF*	.91	23.11	XFP9664S*	.92	23.37	FP5330F*	1.03	26.16
.18	4.57	.345	8.76	.156	3.96	FP9694SF	.91	23.11	XFP9696S	.92	23.37	FP5332F	1.03	26.16
.21	5.33	.420	10.67	.180	4.57	FP9652SF*	.95	24.13	XFP9665S*	.96	24.38	FP5331F*	1.08	27.43
.21	5.33	.420	10.67	.180	4.57	FP9695SF	.95	24.13	XFP9667S	.96	24.38	FP5333F	1.08	27.43
Hand Tool						H35			H43			H35		

*Designates part without detent.



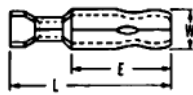
N* Items on this spread are also available in nylon. To order, add N suffix to catalog number. Example: XMP9658SN.



All items listed on this spread are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number. Example: MP9654S-T or XMP9658SN-T.

18/14 Male Plugs

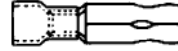
CMA Range 1600-5180
Barrel Inside Diameter .081"/2.06 mm



MATERIAL: BRASS



THICKNESS: .018"/4.57 mm

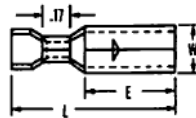
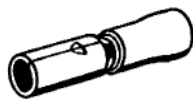


BASIC DIMENSIONS				NON-INSULATED						INSULATED (BLUE VINYL)							
W	W	E	E	NIT		L		NIT-IG		L		INSUL. DIA. .160"/4.06 mm		INSUL. DIA. .146"/3.71 mm			
In.	mm	In.	mm		In.	mm			In.	mm	Funnel FIT	L	L	Funnel FIG	L	L	
.156	3.96	.345	8.76	MP9641S	.63	16.00	MP9647S	.76	19.30	MP9643SF	.92	23.37	XMP9645S	.92	23.37		
.180	4.57	.447	11.35	MP9642S	.68	17.27	MP9648S	.80	20.32	MP9644SF	.97	24.64	XMP9646S	.97	24.64		
Hand Tool				H12				H12				H13		H43			



18/14 Receptacles

CMA Range 1600-5180
Barrel Inside Diameter .081"/2.06 mm



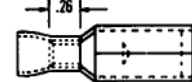
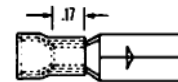
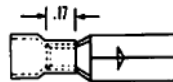
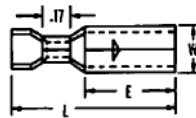
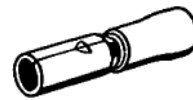
MATERIAL: BRASS



THICKNESS: .016"/.406 mm

BASIC DIMENSIONS						NON-INSULATED							
W	W	E	E	Male Plug Dia.	Male Plug Dia.	NIT		L		NIT-IG		L	
In.	mm	In.	mm	In.	mm		In.	mm			In.	mm	
.18	4.57	.345	8.76	.156	3.96	FP9674S*	.63	16.00	FP9676S*	.76	19.30		
.18	4.57	.345	8.76	.156	3.96	FP9678S	.63	16.00	FP9684S	.76	19.30		
.21	5.33	.420	10.67	.180	4.57	FP9675S*	.68	17.27	FP9677S*	.80	20.32		
.21	5.33	.420	10.67	.180	4.57	FP9679S	.68	17.27	FP9685S	.80	20.32		
Hand Tool						H12				H12			

*Designates part without detent



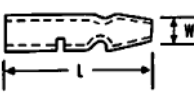
BASIC DIMENSIONS						INSULATED (BLUE VINYL)								
W	W	E	E	Male Plug Dia.	Male Plug Dia.	INSUL. DIA. .160"/4.06 mm		INSUL. DIA. .146"/3.70 mm		INSUL. DIA. .160"/4.06 mm				
In.	mm	In.	mm	In.	mm	Funnel FIT	L	L	Funnel FIG	L	L	Fully Insulated FIT Flared	L	L
.18	4.57	.345	8.76	.156	3.96	FP9637SF*	.91	23.11	XFP9639S*	.92	23.37	FP5334F*	1.03	26.16
.18	4.57	.345	8.76	.156	3.96	FP9680SF	.91	23.11	XFP9682S	.92	23.37	FP5336F	1.03	26.16
.21	5.33	.420	10.67	.180	4.57	FP9638SF*	.95	24.13	XFP9640S*	.97	24.64	FP5335F*	1.08	27.43
.21	5.33	.420	10.67	.180	4.57	FP9681SF	.97	24.64	XFP9683S	.97	24.64	FP5337F	1.08	27.43
Hand Tool						H35				H43		H35		

*Designates part without detent

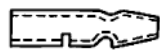


16/14 Male Plugs

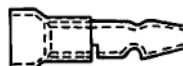
CMA Range 2050-5180
Barrel Inside Diameter .081"/2.06 mm



MATERIAL: COPPER



THICKNESS: .032"/.813 mm



BASIC DIMENSIONS			NON-INSULATED			INSULATED (BLUE VINYL)						
W	W		NIT		L		INSUL. DIA. .195"/4.95		INSUL. DIA. .178"/4.52 mm			
In.	mm			In.	mm	Funnel FIT	L	L	Funnel FIG	L	L	
.156	3.96		MP4846	.640	16.26	MP4847F	1.00	25.40	XMP4848	.91	23.11	

Hand



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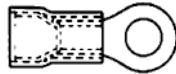
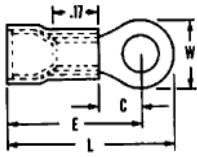
<https://www.AngicGlobal.com> Sales@AngicGlobal.com

22 AWG IR Rings

WIRE SIZE

CMA: 810

Barrel Inside Diameter .034"/.864 mm



MATERIAL: COPPER
THICKNESS: .030"/.762mm

BASIC DIMENSIONS					INSULATED (RED VINYL WITH GREEN STRIPE) INSUL. DIA. .146"/3.71mm				
Stud Size	W In.	W mm	C In.	C mm	Funnel FIIG	E In.	E mm	L In.	L mm
2	.22	5.59	.16	4.06	R71068	.60	15.24	.74	18.80
4	.22	5.59	.16	4.06	R70994	.60	15.24	.74	18.80
6	.22	5.59	.16	4.06	R70995	.60	15.24	.74	18.80
6	.25	6.35	.32	8.13	R70996	.76	19.30	.91	23.11
8	.31	7.87	.32	8.13	R70997	.76	19.30	.94	23.88
10	.31	7.87	.32	8.13	R70998	.76	19.30	.94	23.88
1/4	.47	11.94	.44	11.18	R70999	.87	22.10	1.14	28.96
5/16	.47	11.94	.44	11.18	R71000	.87	22.10	1.14	28.96
3/8	.53	13.46	.44	11.18	R71001	.87	22.10	1.17	29.72
Hand Tool					H7B				

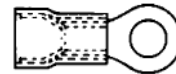
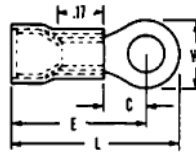


20 AWG IR Rings

WIRE SIZE

CMA: 1290

Barrel Inside Diameter .042"/1.07 mm



MATERIAL: COPPER
THICKNESS: .030"/.762mm

BASIC DIMENSIONS					INSULATED (RED VINYL WITH RED STRIPE) INSUL. DIA. .146"/3.71mm				
Stud Size	W In.	W mm	C In.	C mm	Funnel FIIG	E In.	E mm	L In.	L mm
2	.22	5.59	.16	4.06	R71069	.60	15.24	.74	18.80
4	.22	5.59	.16	4.06	R71002	.60	15.24	.74	18.80
6	.22	5.59	.16	4.06	R71003	.60	15.24	.74	18.80
6	.25	6.35	.32	8.13	R71004	.76	19.30	.89	22.61
8	.31	7.87	.32	8.13	R71005	.76	19.30	.94	23.88
10	.31	7.87	.32	8.13	R71006	.76	19.30	.94	23.88
1/4	.47	11.94	.44	11.18	R71007	.87	22.10	1.14	28.96
5/16	.47	11.94	.44	11.18	R71008	.87	22.10	1.14	28.96
3/8	.53	13.46	.44	11.18	R71009	.87	22.10	1.17	29.72
Hand Tool					H7B				

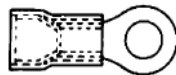
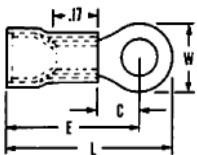


18 AWG IR Rings

WIRE SIZE

CMA: 2050

Barrel Inside Diameter .052"/1.32 mm

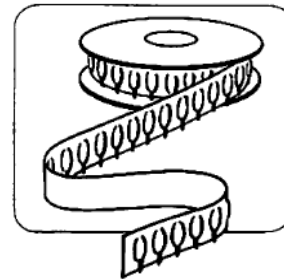


MATERIAL: COPPER
THICKNESS: .030"/.762mm

BASIC DIMENSIONS					INSULATED (RED VINYL WITH WHITE STRIPE) INSUL. DIA. .146"/3.71mm				
Stud Size	W In.	W mm	C In.	C mm	Funnel FIIG	E In.	E mm	L In.	L mm
2	.22	5.59	.16	4.06	R71070	.60	15.24	.74	18.80
4	.22	5.59	.16	4.06	R71010	.60	15.24	.74	18.80
6	.22	5.59	.16	4.06	R71011	.60	15.24	.74	18.80
6	.25	6.35	.32	8.13	R71012	.76	19.30	.91	23.11
8	.31	7.87	.32	8.13	R71013	.76	19.30	.94	23.88
10	.31	7.87	.32	8.13	R71014	.76	19.30	.94	23.88
1/4	.47	11.94	.44	11.18	R71015	.87	22.10	1.14	28.96
5/16	.47	11.94	.44	11.18	R71016	.87	22.10	1.14	28.96
3/8	.53	13.46	.44	11.18	R71017	.87	22.10	1.17	29.72
Hand Tool					H7B				



N* Above items are also available in nylon. To order, add N suffix to catalog number. -
Example: R70994N.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: R70994-T or R70994N-T.



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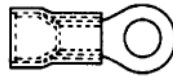
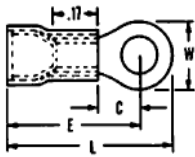
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16 AWG IR Rings

WIRE SIZE **CMA: 3260**
 Barrel Inside Diameter .059"/1.50 mm



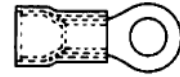
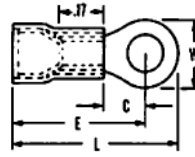
MATERIAL: COPPER
 THICKNESS: .032"/.813 mm

INSULATED (BLUE VINYL WITH BLUE STRIPE)									
BASIC DIMENSIONS					INSUL. DIA. .178"/4.52 mm				
Stud Size	W In.	W mm	C In.	C mm	Funnel FIG	E In.	E mm	L In.	L mm
4	.25	6.35	.16	4.06	R71091S	.59	14.99	.74	18.80
6	.25	6.35	.16	4.06	R71092S	.59	14.99	.74	18.80
6	.31	7.87	.28	7.11	R71093S	.72	18.29	.91	23.11
8	.31	7.87	.28	7.11	R71094S	.72	18.29	.91	23.11
10	.31	7.87	.28	7.11	R71095S	.72	18.29	.91	23.11
1/4	.46	11.68	.44	11.18	R71096S	.87	22.10	1.13	28.70
5/16	.46	11.68	.44	11.18	R71097S	.87	22.10	1.13	28.70
3/8	.53	13.46	.44	11.18	R71098S	.87	22.10	1.17	29.72
Hand Tool					H7B				



14 AWG IR Rings

WIRE SIZE **CMA: 5180**
 Barrel Inside Diameter .074"/1.88 mm



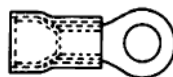
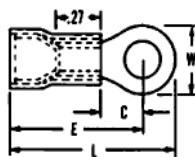
MATERIAL: COPPER
 THICKNESS: .032"/.813 mm

INSULATED (BLUE VINYL WITH GREEN STRIPE)									
BASIC DIMENSIONS					INSUL. DIA. .178"/4.52 mm				
Stud Size	W In.	W mm	C In.	C mm	Funnel FIG	E In.	E mm	L In.	L mm
4	.25	6.35	.16	4.06	R71100S	.59	14.99	.74	18.80
6	.25	6.35	.16	4.06	R71101S	.59	14.99	.74	18.80
6	.31	7.87	.28	7.11	R71102S	.72	18.29	.91	23.11
8	.31	7.87	.28	7.11	R71103S	.72	18.29	.91	23.11
10	.31	7.87	.28	7.11	R71104S	.72	18.29	.91	23.11
1/4	.46	11.68	.44	11.18	R71105S	.87	22.10	1.13	28.70
5/16	.46	11.68	.44	11.18	R71106S	.87	22.10	1.13	28.70
3/8	.53	13.46	.44	11.18	R71107S	.87	22.10	1.17	29.72
Hand Tool					H7B				



12 AWG IR Rings

WIRE SIZE **CMA: 8230**
 Barrel Inside Diameter .091"/2.31 mm



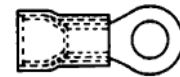
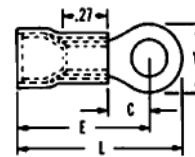
MATERIAL: COPPER
 THICKNESS: .040"/1.02 mm

INSULATED (YELLOW VINYL WITH YELLOW STRIPE)									
BASIC DIMENSIONS					INSUL. DIA. .239"/6.07 mm				
Stud Size	W In.	W mm	C In.	C mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.37	9.40	.28	7.11	R71179	.91	23.11	1.11	28.19
8	.37	9.40	.28	7.11	R71181	.91	23.11	1.11	28.19
10	.37	9.40	.28	7.11	R71182	.91	23.11	1.11	28.19
1/4	.52	13.21	.47	11.94	R71183	1.10	27.94	1.37	34.80
5/16	.52	13.21	.47	11.94	R71184	1.10	27.94	1.37	34.80
3/8	.59	14.99	.50	12.70	R71185	1.13	28.70	1.43	36.32
1/2	.71	18.03	.50	12.70	R71187	1.13	28.70	1.49	37.85
Hand Tool					H6E				



10 AWG IR Rings

WIRE SIZE **CMA: 13,100**
 Barrel Inside Diameter .115"/2.92 mm

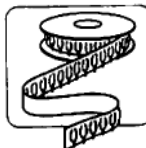


MATERIAL: COPPER
 THICKNESS: .040"/1.02 mm

INSULATED (YELLOW VINYL WITH BROWN STRIPE)									
BASIC DIMENSIONS					INSUL. DIA. .239"/6.07 mm				
Stud Size	W In.	W mm	C In.	C mm	Funnel FIG	E In.	E mm	L In.	L mm
6	.37	9.40	.28	7.11	R71191	.91	23.11	1.11	28.19
8	.37	9.40	.28	7.11	R71193	.91	23.11	1.11	28.19
10	.37	9.40	.28	7.11	R71194	.91	23.11	1.11	28.19
1/4	.52	13.21	.47	11.94	R71195	1.10	27.94	1.37	34.80
5/16	.52	13.21	.47	11.94	R71196	1.10	27.94	1.37	34.80
3/8	.59	14.99	.50	12.70	R71197	1.13	28.70	1.43	36.32
1/2	.71	18.03	.50	12.70	R71199	1.13	28.70	1.49	37.85
Hand Tool					H6E				



N* Above items are also available in nylon.
 To order, add N suffix to catalog number.
 Example: R71091SN.
 For metric dimensions of stud sizes
 see the corresponding pages 42
















All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number.
 Example: R71091S-T or R71091SN-T

SECTION 5

Miscellaneous Data and Information

STUD SIZE CHART

		Diameter Inches	mm
	#0	.066	1.68
	#2	.093	2.36
	#4	.119	3.02
	#6	.148	3.76
	#8	.178	4.52
	#10	.198	5.03
	1/4"	.265	6.73
	5/16"	.326	8.28
	3/8"	.390	9.91
	7/16"	.454	11.53
	1/2"	.518	13.16
	5/8"	.656	16.66
	3/4"	.779	19.79

DECIMAL EQUIVALENT CHART

1/64	.015625	33/64	.515625
1/32	.03125	17/32	.53125
2/64	.046875	35/64	.546875
1/16	.0625	9/16	.5625
3/64	.078125	37/64	.578125
3/32	.09375	19/32	.59375
7/64	.109375	39/64	.609375
1/8	.125	5/8	.625
9/64	.140625	41/64	.640625
5/32	.15625	21/32	.65625
11/64	.171875	43/64	.671875
3/16	.1875	11/16	.6875
13/64	.203125	45/64	.703125
7/32	.21875	23/32	.71875
15/64	.234375	47/64	.734375
1/4	.25	3/4	.75
17/64	.265625	49/64	.765625
9/32	.28125	25/32	.78125
19/64	.296875	51/64	.796875
5/16	.3125	13/16	.8125
21/64	.328125	53/64	.828125
11/32	.34375	27/32	.84375
23/64	.359375	55/64	.859375
3/8	.375	7/8	.875
25/64	.390625	57/64	.890625
13/32	.40625	29/32	.90625
27/64	.421875	59/64	.921875
7/16	.4375	15/16	.9375
29/64	.453125	61/64	.953125
15/32	.46875	31/32	.96875
31/64	.484375	63/64	.984375
1/2	.5	1	1

WIRE GAGE CONVERSION

AWG	CMA	MM ²
26-24	202 - 320	0.10 - 0.16
26-22	202 - 810	0.10 - 0.41
24-20	320 - 1290	0.16 - 0.65
22-18	509 - 2050	0.30 - 1.04
22-16	509 - 3260	0.30 - 1.65
20-16	1290 - 3260	0.65 - 1.65
18-14	1600 - 5180	0.81 - 2.62
16-14	2050 - 5180	1.04 - 2.62
14-12	3260 - 8230	1.65 - 4.17
12-10	5180 - 13,100	2.62 - 6.64
8	13,100 - 20,800	6.64 - 10.54
6	20,800 - 33,100	10.54 - 16.77
4	33,100 - 52,600	16.77 - 26.65
2	52,600 - 83,700	26.65 - 42.41
1/0	83,700 - 119,500	42.41 - 60.55
2/0	119,500 - 150,500	60.55 - 76.26
3/0	150,500 - 190,000	76.26 - 96.27
4/0	190,000 - 231,000	96.27 - 117.05
250 MCM	250,000	127
300 MCM	300,000	152
350 MCM	350,000	177
400 MCM	400,000	203
500 MCM	500,000	253



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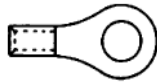
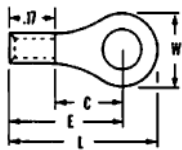
High Temperature Terminals and Connectors for Wire Sizes 22 to 2 AWG

For high temperature applications; maximum operating temperatures are 650°F or 900°F. 650°F terminals are made of

pure copper (Slip-On is Brass), and are Nickel plated. 900°F terminals are made of a Steel Alloy and are Nickel Plated.

22/16 WIRE SIZE Rings 650°F

CMA Range 509-3260
Barrel Inside Diameter .061"/1.55 mm



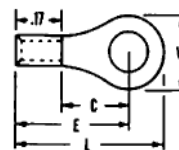
MATERIAL: NICKEL PLATED COPPER
THICKNESS: .030"/.762 mm

BASIC DIMENSIONS					NON-INSULATED					
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm	Hand Tool
4	.22	5.59	.16	4.06	R4275SB	.34	8.64	.45	11.43	H4A
6	.25	6.35	.32	8.13	R4276SB	.50	12.70	.62	15.75	H4A
8	.31	7.87	.32	8.13	R4277SB	.50	12.70	.65	16.51	H4A
10	.31	7.87	.32	8.13	R4278SB	.50	12.70	.65	16.51	H4A
1/4	.47	11.94	.44	11.18	R4279SB	.61	15.49	.85	21.59	H4A



16/14 WIRE SIZE Rings 650°F

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm



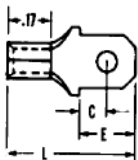
MATERIAL: NICKEL PLATED COPPER
THICKNESS: .032"/.813 mm

BASIC DIMENSIONS					NON-INSULATED					
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm	Hand Tool
4	.25	6.35	.16	4.06	R4305SB	.33	8.38	.45	11.43	
6	.31	7.87	.28	7.11	R4306SB	.45	11.43	.62	15.75	
8	.31	7.87	.28	7.11	R4307SB	.45	11.43	.62	15.75	
10	.31	7.87	.28	7.11	R4308SB	.45	11.43	.62	15.75	
1/4	.46	11.68	.44	11.18	R4309SB	.61	15.49	.84	21.34	
Hand Tool					H4A					



16/14 WIRE SIZE Male Slip-Ons 650°F

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm



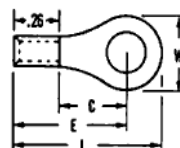
MATERIAL: NICKEL PLATED BRASS
THICKNESS: .032"/.813 mm

BASIC DIMENSIONS				NON-INSULATED			
NEMA TAB	C In.	C mm	NIT	E In.	E mm	L In.	L mm
.032 x .187	.125	3.17	S09017S	.250	6.35	.62	15.75
.032 x .205	.125	3.17	S09018S	.250	6.35	.62	15.75
.032 x .250	.150	3.81	S09019S	.312	7.92	.67	17.02
Hand Tool			H4A				



12/10 WIRE SIZE Rings 650°F

CMA Range 5180-13,100
Barrel Inside Diameter .131"/3.33 mm



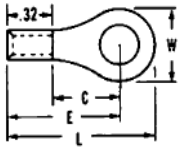
MATERIAL: NICKEL PLATED COPPER
THICKNESS: .040"/10.16 mm

BASIC DIMENSIONS					NON-INSULATED					
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm	Hand Tool
6	.37	9.40	.28	7.11	R3428B	.56	14.22	.74	18.80	H4A
8	.37	9.40	.28	7.11	R3429B	.56	14.22	.74	18.80	H4A
10	.37	9.40	.28	7.11	R3430B	.56	14.22	.74	18.80	H4A
1/4	.52	13.21	.47	11.94	R3431B	.74	18.80	1.01	25.65	H4A
5/16	.52	13.21	.47	11.94	R3432B	.74	18.80	1.01	25.65	H4A
3/8	.59	14.99	.50	12.70	R3433B	.77	19.56	1.07	27.18	H4A

8 AWG Rings

WIRE SIZE
650°F

CMA Range 13,100-20,800
Barrel Inside Diameter .173"/4.39 mm



MATERIAL: NICKEL PLATED COPPER
THICKNESS: .045"/1.14 mm

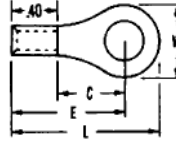
BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm
10	.38	9.65	.39	9.91	R3472B	.72	18.29	.90	22.86
1/4	.47	11.94	.39	9.91	R3470B	.72	18.29	.95	24.13
Hand Tool					H20				



6 AWG Rings

WIRE SIZE
650°F

CMA Range 20,800-33,100
Barrel Inside Diameter .238"/6.05 mm



MATERIAL: NICKEL PLATED COPPER
THICKNESS: .057"/1.45 mm

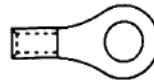
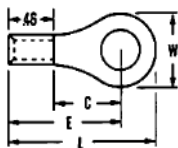
BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm
1/4	.47	11.94	.54	13.72	R64663B	.95	24.13	1.18	29.97
5/16	.63	16.00	.54	13.72	R64661B	.95	24.13	1.26	32.00
3/8	.63	16.00	.54	13.72	R64662B	.95	24.13	1.26	32.00
Hand Tool					H20				



4 AWG Rings

WIRE SIZE
650°F

CMA Range 33,100-52,600
Barrel Inside Diameter .287"/7.29 mm



MATERIAL: NICKEL PLATED COPPER
THICKNESS: .068"/1.73 mm

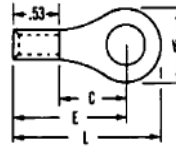
BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm
1/4	.56	14.22	.50	12.70	R5023B	.97	24.64	1.25	31.75
5/16	.66	16.76	.50	12.70	R5018B	.97	24.64	1.30	33.02
3/8	.66	16.76	.50	12.70	R5019B	.97	24.64	1.30	33.02
Hand Tool					H20				



2 AWG Rings

WIRE SIZE
650°F

CMA Range 52,600-83,700
Barrel Inside Diameter .355"/9.02 mm

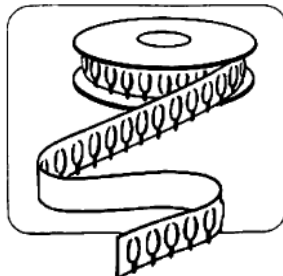


MATERIAL: NICKEL PLATED COPPER
THICKNESS: .078"/1.98 mm

BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm
1/4	.70	17.78	.60	15.24	R8027B+	1.15	29.21	1.50	38.10
5/16	.70	17.78	.60	15.24	R8028B+	1.15	29.21	1.50	38.10
3/8	.70	17.78	.60	15.24	R8029B+	1.15	29.21	1.50	38.10
Hand Tool					H20				

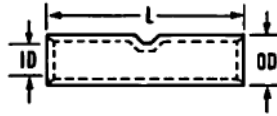


For metric dimensions of stud sizes on this spread, see page 43.



All items listed on this spread (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number.
Example: R3472B-T.

22/10 WIRE SIZE Butt Connectors 650°F



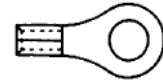
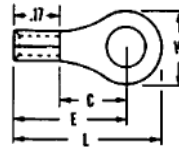
MATERIAL: NICKEL PLATED COPPER

Wire Size	CMA Range	NON-INSULATED						
		NIT Brazed	I.D. In.	I.D. mm	O.D. In.	O.D. mm	L In.	L mm
22-16	509-3260	B1843B	.061	1.55	.136	3.45	.58	14.73
16-14	2050-5180	B1846B	.085	2.16	.159	4.04	.58	14.73
12-10	5180-13,100	B1853B	.131	3.33	.221	5.61	.74	18.80
Hand Tool		H4A						



22/16 WIRE SIZE Rings 900°F

CMA Range 509-3260
Barrel Inside Diameter .061"/1.55 mm



MATERIAL: NICKEL PLATED STEEL ALLOY
THICKNESS: .030"/.762 mm

BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT	E In.	E mm	L In.	L mm
4	.25	6.35	.32	8.13	R4270S	.50	12.70	.62	15.75
6	.25	6.35	.32	8.13	R4271S	.50	12.70	.62	15.75
8	.31	7.87	.32	8.13	R4272S	.50	12.70	.65	16.51
10	.31	7.87	.32	8.13	R4273S	.50	12.70	.65	16.51
Hand Tool					H16HT				



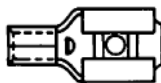
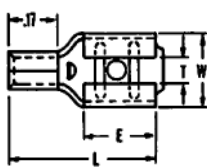
18/14 WIRE SIZE

CMA Range 1600-5180
Barrel Inside Diameter
.081"/2.06 mm

12/10 WIRE SIZE

CMA Range 5,100-13,100
Barrel Inside Diameter
.130"/3.30mm

Female Slip-Ons 900°F



MATERIAL: NICKEL PLATED STEEL ALLOY
THICKNESS: .018"/.457 mm

BASIC DIMENSIONS					NON-INSULATED				
NEMA TAB	W In.	W mm	T In.	T mm	NIT	E In.	E mm	L In.	L mm
.020 x .187	.233	5.92	.026	.660	S09750S†	.250	6.35	.59	14.99
.032 x .187	.233	5.92	.026	.660	S09751S†	.250	6.35	.59	14.99
.020 x .205	.250	6.35	.026	.660	S09752S†	.250	6.35	.59	14.99
.032 x .205	.250	6.35	.026	.660	S09753S†	.250	6.35	.59	14.99
.032 x .250	.296	7.52	.065	1.651	S09754S†	.300	7.62	.64	16.26
Hand Tool					H12				
.032 x .250	.300	7.62	.065	1.651	S09214▲	.300	7.62	.72	18.29

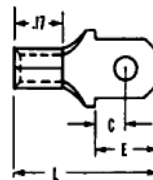


▲ 12/10 AWG

For metric dimensions of stud sizes, see page 43.

18/14 WIRE SIZE Male Slip-Ons 900°F

CMA Range 1600-5180
Barrel Inside Diameter .085"/2.16 mm



MATERIAL: NICKEL PLATED STEEL ALLOY
THICKNESS: .032"/.813 mm

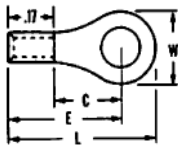
BASIC DIMENSIONS				NON-INSULATED			
NEMA TAB	C In.	C mm	NIT	E In.	E mm	L In.	L mm
.032 x .187	.125	3.18	S09012S+	.250	6.35	.62	15.75
.032 x .205	.125	3.18	S09015S+	.250	6.35	.62	15.75
.032 x .250	.134	3.40	S09016S+	.312	7.92	.67	17.02
Hand Tool				H16HT			



All items listed on this page (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.
Example: B1843B-T.

16/14 WIRE SIZE Rings 900°F

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm



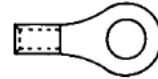
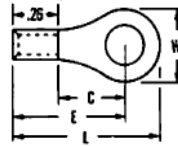
MATERIAL: NICKEL PLATED STEEL ALLOY
THICKNESS: .032"/.813 mm

BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT	E In.	E mm	L In.	L mm
4	.31	7.87	.28	7.11	R4300S	.46	11.68	.62	15.75
6	.31	7.87	.28	7.11	R4301S	.46	11.68	.62	15.75
8	.31	7.87	.28	7.11	R4302S	.46	11.68	.62	15.75
10	.31	7.87	.28	7.11	R4303S	.46	11.68	.62	15.75
Hand Tool					H16HT				



12/10 WIRE SIZE Rings 900°F

CMA Range 5180-13,100
Barrel Inside Diameter .131"/3.33 mm

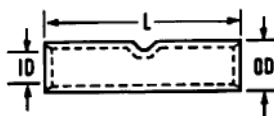


MATERIAL: NICKEL PLATED STEEL ALLOY
THICKNESS: .040"/1.02mm

BASIC DIMENSIONS					NON-INSULATED				
Stud Size	W In.	W mm	C In.	C mm	NIT	E In.	E mm	L In.	L mm
4	.37	9.40	.28	7.11	R3420	.56	14.22	.74	18.80
6	.37	9.40	.28	7.11	R3421	.56	14.22	.74	18.80
8	.37	9.40	.28	7.11	R3422	.56	14.22	.74	18.80
10	.37	9.40	.28	7.11	R3423	.56	14.22	.74	18.80
1/4	.52	13.21	.47	11.94	R3424	.74	18.80	1.00	25.40
3/16	.52	13.21	.47	11.94	R3425	.74	18.80	1.00	25.40
3/8	.59	14.99	.50	12.70	R3426	.77	19.56	1.06	26.92
Hand Tool					H16HT				



22/10 WIRE SIZE Butt Connectors 900°F

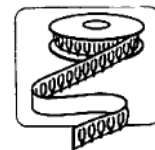


MATERIAL: NICKEL PLATED STEEL ALLOY

Wire Size	CMA Range	NON-INSULATED						
		NIT	I.D. In.	I.D. mm	O.D. In.	O.D. mm	L In.	L mm
22-16	509-3260	B1842	.061	1.55	.136	3.45	.58	14.73
16-14	2050-5180	B1845	.083	2.11	.159	4.04	.58	14.73
12-10	5180-13,100	B1852	.131	3.33	.221	5.61	.74	18.80
Hand Tool		H16HT						



For metric dimensions of stud sizes, see page 43.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: R4300S-T.

Terminals/Splices for Wire Sizes 8 AWG to 250 MCM

All terminals in this section are made from pure copper for highest conductivity. They are electro-tin plated to assure corrosion resistance. Serrated "V" grooves in the barrel of

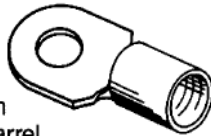
each terminal firmly grip the wire to assure maximum holding power. Insulation is color coded to standard commercial specifications.

NIT BRAZED

Non-Insulated Terminal

Consists of a bare terminal with a smooth, silver alloy brazed barrel

- Chamfered end of barrel affords fast and easy insertion of wire
- Brazed barrel can be crimped anywhere (even on seam) without splitting
- Some butt connectors and parallel splices are made from seamless tubular stock and offer the same advantages as brazed barrel parts. These parts are indicated by an ⚡

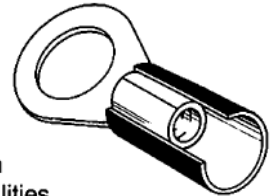


FIT

Fixed Insulated Terminal

An assembly of a bare terminal with tightly fitted insulating sleeve made from PVC or nylon

- Offers excellent insulating qualities
- Resists minor vibrations
- Insulation color coded to standard commercial specifications



FIT FLARED

Fixed Insulated Terminal-Flared Insulation

An assembly of a bare terminal with a tightly fitted flared insulating sleeve made from PVC

- Flared insulation will accept heavily insulated wire
- Resists minor vibrations
- Offers excellent insulating qualities
- Insulation color coded to standard commercial specifications

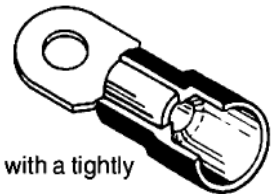


FUNNEL FIT

Fixed Insulated Terminal-Funnel Entry

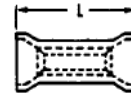
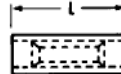
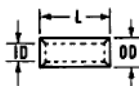
An assembly of a brazed terminal with a tightly fitted nylon insulating sleeve

- Funnel entry barrel facilitates wire entry
- Resists minor vibrations
- Prevents insulation unraveling
- Offers excellent insulating qualities
- Insulation color coded to standard commercial specifications



8 - 4/0 AWG Parallels

WIRE SIZE



MATERIAL: SEAMLESS COPPER TUBULAR STOCK ⚡

BASIC DIMENSIONS						NON-INSULATED				INSULATED (VINYL)								
Wire Size	CMA Range	I.D. In.	I.D. mm	O.D. In.	O.D. mm	NIT	L In.	L mm	Hand Tool	FIT	Insul. Dia. In.	Insul. Dia. mm	FIT Flared	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Insul. Color
8	13,100-20,800	.19	4.83	.28	7.11	P1100 ⚡	.38	9.65	H20	P1110 ⚡	.27	6.86	P1110F ⚡	.315	8.00	1.05	26.67	Red
6	20,800-33,100	.26	6.60	.37	9.40	P1200 ⚡	.46	11.68	H20	P1210 ⚡	.35	8.89	P1210F ⚡	.430	10.92	1.19	30.23	Blue
4	33,100-52,600	.31	7.87	.43	10.92	P1300 ⚡	.54	13.72	H20	P1310 ⚡	.42	10.67	P1310F ⚡	.515	13.08	1.41	35.81	Yellow
2	52,600-83,700	.39	9.91	.53	13.46	P1401 ⚡	.65	16.51	H20	P1411 ⚡	.52	13.21	P1411F ⚡	.650	16.51	1.63	41.40	Red
1/0	83,700-119,500	.45	11.43	.57	14.48	P1500 ⚡	.74	18.80										
2/0	119,500-150,500	.51	12.95	.63	16.00	P1600 ⚡	.74	18.80										
3/0	150,500-190,000	.56	14.22	.69	17.53	P1700 ⚡	.77	19.56										
4/0	190,000-231,000	.62	15.75	.76	19.30	P1800 ⚡	.79	20.07										
Hand Tool									See Above	H20			H20					

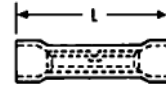
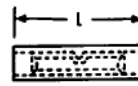
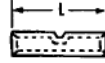
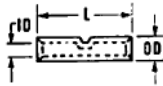
* Not UL or CSA listed.



⚡ Made from seamless tubular stock.

8 - 4/0 AWG Butt Connectors

WIRE SIZE



MATERIAL: COPPER

BASIC DIMENSIONS						NON-INSULATED				INSULATED (VINYL)									
Wire Size	CMA Range	I.D. In.	I.D. mm	O.D. In.	O.D. mm	NIT	NIT Brazed	L In.	L mm	Hand Tool	FIT	Insul. Dia. In.	Insul. Dia. mm	FIT Flared	Insul. Dia. In.	Insul. Dia. mm	L In.	L mm	Insul. Color
8	13,100-20,800	.17	4.32	.28	7.11		B0100B	.77	19.56	H20	B0110B	.27	6.86	B0110BF	.310	7.87	1.45	36.83	Red
6	20,800-33,100	.23	5.84	.36	9.14		B0200B	1.02	25.91	H20	B0210B	.35	8.89	B0210BF	.430	10.92	1.86	47.24	Blue
4	33,100-52,600	.31	7.87	.43	10.92	B0300*†		1.20	30.48	H20	B0310*†	.42	10.67	B0310F*†	.515	13.08	2.03	51.56	Yellow
2	52,600-83,700	.39	9.91	.53	13.46	B0401*†		1.37	34.80	H20	B0411*†	.51	12.95	B0411F*†	.650	16.51	2.38	60.45	Red
1/0	83,700-119,500	.45	11.43	.57	14.48	B0500*†		1.52	38.61										
2/0	119,500-150,500	.51	12.95	.63	16.00	B0600*†		1.58	40.13										
3/0	150,500-190,000	.56	14.22	.69	17.53	B0700*†		1.57	39.88										
4/0	190,000-231,000	.62	15.75	.76	19.30	B0800*†		1.58	40.13										
Hand Tool										See Above	H20			H20					

* Not UL or CSA listed.

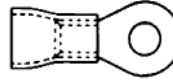
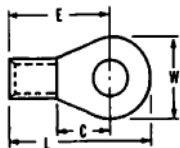


† Made from seamless tubular stock.



8 Rings CMA Range 13,100/20,800 Barrel Inside Diameter .173"/4.39 mm

WIRE SIZE



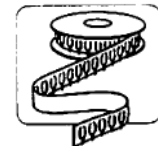
MATERIAL: COPPER THICKNESS: .045"/1.14 mm

BASIC DIMENSIONS				NON-INSULATED				INSULATED (RED VINYL)					
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm	INSUL. DIA. .265"/6.73 mm	INSUL. DIA. .315"/8.00 mm	FIT Flared	
8	.38	9.65	.39	9.91	R3499B	.72	18.29	.90	22.86	R3503B	1.04	26.42	R3503BF
8	.47	11.94	.39	9.91	R2996B	.72	18.29	.95	24.13	R3030B	1.04	26.42	R3030BF
10	.38	9.65	.39	9.91	R3500B	.72	18.29	.90	22.86	R3504B	1.04	26.42	R3504BF
10	.47	11.94	.39	9.91	R3460B	.72	18.29	.95	24.13	R3031B	1.04	26.42	R3031BF
10	.59	14.99	.57	14.48	R3445B	.91	23.11	1.20	30.48	R3027B	1.23	31.24	R3027BF
1/4	.38	9.65	.39	9.91	R3501B	.72	18.29	.90	22.86	R3502B	1.04	26.42	R3502BF
1/4	.47	11.94	.39	9.91	R3461B	.72	18.29	.95	24.13	R3032B	1.04	26.42	R3032BF
1/4	.59	14.99	.57	14.48	R3444B	.91	23.11	1.20	30.48	R3028B	1.23	31.24	R3028BF
3/16	.59	14.99	.57	14.48	R3462B	.91	23.11	1.20	30.48	R3033B	1.23	31.24	R3033BF
3/8	.59	14.99	.57	14.48	R3463B	.91	23.11	1.20	30.48	R3034B	1.23	31.24	R3034BF
3/8	.88	22.35	1.00	25.40	R3491B†	1.33	33.78	1.76	44.70	R3043B†	1.65	41.91	R3043BF†
1/2	.88	22.35	1.00	25.40	R3492B†	1.33	33.78	1.76	44.70	R3042B†	1.65	41.91	R3042BF†
1/2	1.25	31.75	1.00	25.40	R3494B†	1.33	33.78	1.95	49.53	R3039B†	1.65	41.91	R3039BF†
5/8	.88	22.35	1.00	25.40	R3493B†	1.33	33.78	1.76	44.70	R3044B†	1.65	41.91	R3044BF†
5/8	1.25	31.75	1.00	25.40	R3495B†	1.33	33.78	1.95	49.53	R3040B†	1.65	41.91	R3040BF†
3/4	1.25	31.75	1.00	25.40	R3496B†	1.33	33.78	1.95	49.53	R3041B†	1.65	41.91	R3041BF†
Hand Tool					H20					H20			H20



N* Items on this spread are also available in nylon. To order, add N suffix to catalog number. Example: B0110BN.

For metric dimensions of stud sizes, see page 43.



All items listed on this spread (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add-T suffix to catalog number. Example: B0300-T or B0110BN-T.



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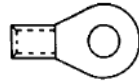
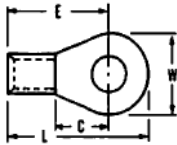
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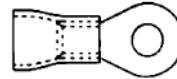
6 Rings

CMA Range 20,800-33,100
Barrel Inside Diameter .238"/6.05 mm

WIRE
SIZE



MATERIAL: COPPER
THICKNESS: .057"/1.45 mm



BASIC DIMENSIONS					NON-INSULATED					INSULATED (BLUE VINYL)					
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm	FIT	INSUL. DIA. .350"/8.89 mm				FIT Flared
											E In.	E mm	L In.	L mm	
10	.47	11.94	.54	13.72	R64641B	.95	24.13	1.18	29.97	R4001B	1.38	35.05	1.62	41.15	R4001BF
1/4	.47	11.94	.54	13.72	R64642B	.95	24.13	1.18	29.97	R4002B	1.38	35.05	1.62	41.15	R4002BF
1/4	.63	16.00	.54	13.72	R64651B	.95	24.13	1.26	32.00	R4010B	1.38	35.05	1.70	43.18	R4010BF
5/16	.63	16.00	.54	13.72	R64643B	.95	24.13	1.26	32.00	R4003B	1.38	35.05	1.70	43.18	R4003BF
3/8	.63	16.00	.54	13.72	R64644B	.95	24.13	1.26	32.00	R4004B	1.38	35.05	1.70	43.18	R4004BF
7/16	.63	16.00	.54	13.72	R64645B	.95	24.13	1.26	32.00	R4005B	1.38	35.05	1.70	43.18	R4005BF
1/2	.88	22.35	1.00	25.40	R64654B†	1.41	35.81	1.85	46.99	R4007B†	1.85	46.99	2.28	57.91	R4007BF†
5/8	.88	22.35	1.00	25.40	R64655B†	1.41	35.81	1.85	46.99	R4008B†	1.85	46.99	2.28	57.91	R4008BF†
Hand Tool					H20					H20					

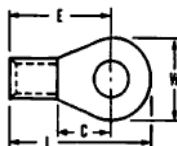


N* Items listed on this page are available in nylon. To order, add N suffix to catalog number. Example: R4001BN. For metric dimensions of stud sizes, see page 43.

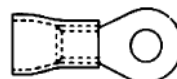
4 Rings

CMA Range 33,100-52,600
Barrel Inside Diameter .287"/7.29 mm

WIRE
SIZE



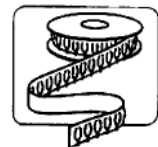
MATERIAL: COPPER
THICKNESS: .068"/1.73 mm



BASIC DIMENSIONS					NON-INSULATED					INSULATED (YELLOW VINYL)					
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm	FIT	INSUL. DIA. .420"/10.66 mm				FIT Flared
											E In.	E mm	L In.	L mm	
10	.56	14.22	.50	12.70	R5000B	.97	24.64	1.25	31.75	R5100B	1.47	37.34	1.75	44.45	R5100BF
10	.66	16.76	.50	12.70	R5013B	.97	24.64	1.30	33.02	R5128B	1.48	37.59	1.81	45.97	R5128BF
1/4	.56	14.22	.50	12.70	R5001B	.97	24.64	1.24	31.50	R5101B	1.47	37.34	1.75	44.45	R5101BF
1/4	.66	16.76	.50	12.70	R5006B	.97	24.64	1.30	33.02	R5127B	1.48	37.59	1.81	45.97	R5127BF
5/16	.66	16.76	.50	12.70	R5002B	.97	24.64	1.30	33.02	R5102B	1.48	37.59	1.81	45.97	R5102BF
3/8	.66	16.76	.50	12.70	R5003B	.97	24.64	1.30	33.02	R5103B	1.48	37.59	1.81	45.97	R5103BF
3/8	.88	22.35	1.00	25.40	R5028B †	1.46	37.08	1.90	48.26	R5138B†	1.98	50.29	2.41	61.21	R5138BF†
7/16	.66	16.76	.50	12.70	R5004B	.97	24.64	1.30	33.02	R5104B	1.48	37.59	1.81	45.97	R5104BF
1/2	.88	22.35	1.00	25.40	R5007B †	1.46	37.08	1.90	48.26	R5122B†	1.98	50.29	2.41	61.21	R5122BF†
1/2	1.25	31.75	1.00	25.40	R5012B †	1.46	37.08	2.10	53.34	R5126B†	1.98	50.29	2.60	66.04	R5126BF†
5/8	.88	22.35	1.00	25.40	R5030B †	1.46	37.08	1.90	48.26	R5123B†	1.98	50.29	2.41	61.21	R5123BF†
5/8	1.25	31.75	1.00	25.40	R5010B †	1.46	37.08	2.10	53.34	R5124B†	1.98	50.29	2.60	66.04	R5124BF†
3/4	1.25	31.75	1.00	25.40	R5011B †	1.46	37.08	2.10	53.34	R5125B†	1.98	50.29	2.60	66.04	R5125BF†
Hand Tool					H20					H20					



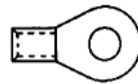
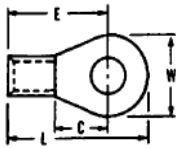
All items listed on this page (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: R64641B-T or R4001BN-T.



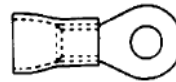
2 Rings

CMA Range 52,600-83,700
Barrel Inside Diameter .355"/9.02 mm

WIRE SIZE



MATERIAL: COPPER



THICKNESS: .076"/1.98 mm

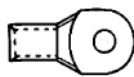
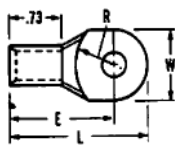
BASIC DIMENSIONS					INSULATED (RED VINYL)										
					NON-INSULATED				INSUL. DIA. .517"/13.13 mm				INSUL. DIA. .650"/16.51 mm		
Stud Size	W In.	W mm	C In.	C mm	NIT Brazed	E In.	E mm	L In.	L mm	FIT	E In.	E mm	L In.	L mm	FIT Flared
10	.60	15.24	.60	15.24	R7998B	1.15	29.21	1.45	36.83	R7998B	1.67	42.42	1.97	50.04	R7998BF
10	.81	20.57	.60	15.24	R7994B	1.15	29.21	1.55	39.37	R7995B	1.67	42.42	2.07	52.58	R7995BF
1/4	.60	15.24	.60	15.24	R8000B	1.15	29.21	1.45	36.83	R8100B	1.67	42.42	1.97	50.04	R8100BF
1/4	.70	17.78	.60	15.24	R8001B	1.15	29.21	1.50	38.10	R8101B	1.67	42.42	2.02	51.31	R8101BF
1/4	.81	20.57	.60	15.24	R8017B	1.15	29.21	1.55	39.37	R8108B	1.67	42.42	2.07	52.52	R8108BF
5/16	.70	17.78	.60	15.24	R8002B	1.15	29.21	1.50	38.10	R8102B	1.67	42.42	2.02	51.31	R8102BF
3/8	.70	17.78	.60	15.24	R8003B	1.15	29.21	1.50	38.10	R8103B	1.67	42.42	2.02	51.31	R8103BF
3/8	.81	20.57	.60	15.24	R8016B	1.15	29.21	1.55	39.37	R8112B	1.67	42.42	2.07	52.58	R8112BF
7/16	.81	20.57	.60	15.24	R8005B	1.15	29.21	1.55	39.37	R8105B	1.67	42.42	2.07	52.58	R8105BF
1/2	.81	20.57	.60	15.24	R8004B	1.15	29.21	1.55	39.37	R8104B	1.67	42.42	2.07	52.58	R8104BF
Hand Tool					H20					H20					H20



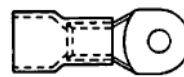
#1 Air-1/0 Commercial

WIRE SIZE

CMA Range 83,100-105,600 • Barrel Inside Diameter .388"/9.86 mm



MATERIAL: COPPER



THICKNESS: .060"/1.52 mm

BASIC DIMENSIONS					INSULATED (WHITE NYLON)									
					NON-INSULATED				INSUL. DIA. .590"/14.99 mm					
Stud Size	W In.	W mm	R In.	R mm	NIT Brazed	E In.	E mm	L In.	L mm	Funnel FIT	E In.	E mm	L In.	L mm
1/4	.71	18.03	.58	14.73	R8400B	1.49	37.85	1.84	46.74	R8450BFN	2.14	54.36	2.49	63.25
1/4	.88	22.35	.58	14.73	R8211B	1.49	37.85	1.93	49.02	R8311BFN	2.14	54.36	2.58	65.53
5/16	.71	18.03	.58	14.73	R8401B	1.49	37.85	1.84	46.74	R8451BFN	2.14	54.36	2.49	63.25
5/16	.88	22.35	.58	14.73	R8212B	1.49	37.85	1.93	49.02	R8312BFN	2.14	54.36	2.58	65.53
3/8	.71	18.03	.58	14.73	R8402B	1.49	37.85	1.84	46.74	R8452BFN	2.14	54.36	2.49	63.25
3/8	.88	22.35	.58	14.73	R8213B	1.49	37.85	1.93	49.02	R8313BFN	2.14	54.36	2.58	65.53
7/16	.71	18.03	.58	14.73	R8403B	1.49	37.85	1.84	46.74	R8453BFN	2.14	54.36	2.49	63.25
7/16	.88	22.35	.58	14.73	R8214B	1.49	37.85	1.93	49.02	R8314BFN	2.14	54.36	2.58	65.53
1/2	.71	18.03	.58	14.73	R8404B	1.49	37.85	1.84	46.74	R8454BFN	2.14	54.36	2.49	63.25
1/2	.88	22.35	.58	14.73	R8215B	1.49	37.85	1.93	49.02	R8315BFN	2.14	54.36	2.58	65.53
Tool					H30/H40					H30/H40				



N* Above items are also available in nylon. To order, add N suffix to catalog number.
Example: R7998BN

For metric dimensions of stud sizes, see page 43.



Get quote >>

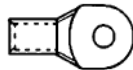
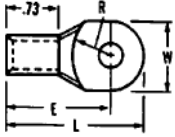
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1/0-2/0 Rings Air - Commercial

119,500-150,500
Barrel Inside Diameter .443"/11.25 mm



MATERIAL: COPPER



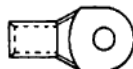
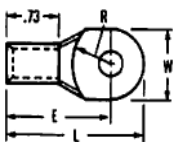
THICKNESS: .075"/1.90 mm

BASIC DIMENSIONS					NON-INSULATED					INSULATED (BLUE NYLON) INSUL. DIA. .695"/17.65 mm				
Stud Size	W In.	W mm	R In.	R mm	NIT Brazed	E In.	E mm	L In.	L mm	Funnel FIT	E In.	E mm	L In.	L mm
1/4	.71	18.03	.53	13.46	R8207B	1.49	37.84	1.85	46.99	R8307BFN	2.18	55.37	2.55	64.77
1/4	.88	22.35	.53	13.46	R8202B	1.49	37.84	1.93	49.02	R8302BFN	2.18	55.37	2.63	66.80
5/16	.71	18.03	.53	13.46	R8208B	1.49	37.84	1.85	46.99	R8308BFN	2.18	55.37	2.55	64.77
5/16	.88	22.35	.53	13.46	R8203B	1.49	37.84	1.93	49.02	R8303BFN	2.18	55.37	2.63	66.80
3/8	.71	18.03	.53	13.46	R8209B	1.49	37.84	1.85	46.99	R8309BFN	2.18	55.37	2.55	64.77
3/8	.88	22.35	.53	13.46	R8204B	1.49	37.84	1.93	49.02	R8304BFN	2.18	55.37	2.63	66.80
7/16	.71	18.03	.53	13.46	R8210B	1.49	37.84	1.85	46.99	R8310BFN	2.18	55.37	2.55	64.77
7/16	.88	22.35	.53	13.46	R8205B	1.49	37.84	1.93	49.02	R8305BFN	2.18	55.37	2.63	66.80
1/2	.71	18.03	.53	13.46	R8216B	1.49	37.84	1.85	46.99	R8316BFN	2.18	55.37	2.55	64.77
1/2	.88	22.35	.53	13.46	R8206B	1.49	37.84	1.93	49.02	R8306BFN	2.18	55.37	2.63	66.80
Tool					H30/H40					H30/H40				



2/0-3/0 Rings Air - Commercial

150,500-190,000
Barrel Inside Diameter .502"/12.75 mm



MATERIAL: COPPER



THICKNESS: .083"/2.10 mm

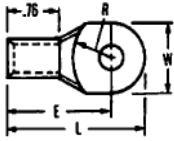
BASIC DIMENSIONS					NON-INSULATED					INSULATED (YELLOW NYLON) INSUL. DIA. .785"/19.93 mm				
Stud Size	W In.	W mm	R In.	R mm	NIT Brazed	E In.	E mm	L In.	L mm	Funnel FIT	E In.	E mm	L In.	L mm
1/4	.93	23.62	.53	13.46	R8220B	1.50	38.10	1.97	50.03	R8320BFN	2.23	56.64	2.71	68.76
5/16	.93	23.62	.53	13.46	R8221B	1.50	38.10	1.97	50.03	R8321BFN	2.23	56.64	2.71	68.76
3/8	.93	23.62	.53	13.46	R8222B	1.50	38.10	1.97	50.03	R8322BFN	2.23	56.64	2.71	68.76
7/16	.93	23.62	.53	13.46	R8223B	1.50	38.10	1.97	50.03	R8323BFN	2.23	56.64	2.71	68.76
1/2	.93	23.62	.53	13.46	R8224B	1.50	38.10	1.97	50.03	R8324BFN	2.23	56.64	2.71	68.76
Tool					H30/H40					H30/H40				



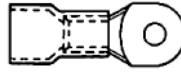
For metric dimensions of stud sizes, see page 43.

3/0-4/0 Rings Air - Commercial

CMA Range 190,000-231,000
Barrel Inside Diameter .572" 14.53 mm



MATERIAL: COPPER



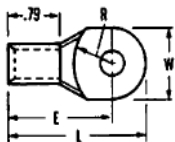
THICKNESS: .093"/2.36 mm

BASIC DIMENSIONS					NON-INSULATED				INSULATED (RED NYLON) INSUL. DIA. .810"/20.57 mm					
Stud Size	W In.	W mm	R In.	R mm	NIT Brazed	E In.	E mm	L In.	L mm	Funnel FIT	E In.	E mm	L In.	L mm
1/4	1.08	27.43	.62	15.75	R8237B	1.63	41.40	2.17	54.71	R8337BFN	2.29	58.16	2.87	72.90
5/16	1.08	27.43	.62	15.75	R8238B	1.63	41.40	2.17	54.71	R8338BFN	2.29	58.16	2.87	72.90
3/8	1.08	27.43	.62	15.75	R8239B	1.63	41.40	2.17	54.71	R8339BFN	2.29	58.16	2.87	72.90
7/16	1.08	27.43	.62	15.75	R8240B	1.63	41.40	2.17	54.71	R8340BFN	2.29	58.16	2.87	72.90
1/2	1.08	27.43	.62	15.75	R8241B	1.63	41.40	2.17	54.71	R8341BFN	2.29	58.16	2.87	72.90
5/8	1.08	27.43	.62	15.75	R8242B	1.63	41.40	2.17	54.71	R8342BFN	2.29	58.16	2.87	72.90
3/4	1.08	27.43	.62	15.75	R8243B	1.63	41.40	2.17	54.71	R8343BFN	2.29	58.16	2.87	72.90
Tool					H40					H40				

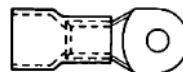


4/0-250 MCM Rings Air - Commercial

CMA Range 231,000-250,000
Barrel Inside Diameter .641" 16.28 mm



MATERIAL: COPPER



THICKNESS: .105"/2.66 mm

BASIC DIMENSIONS					NON-INSULATED				INSULATED (BLUE NYLON) INSUL. DIA. .960"/24.38 mm					
Stud Size	W In.	W mm	R In.	R mm	NIT Brazed	E In.	E mm	L In.	L mm	Funnel FIT	E In.	E mm	L In.	L mm
1/4	1.14	28.95	.62	15.75	R8256B	1.64	41.65	2.21	56.13	R8356BFN	2.37	60.20	2.97	75.44
5/16	1.14	28.95	.62	15.75	R8257B	1.64	41.65	2.21	56.13	R8357BFN	2.37	60.20	2.97	75.44
3/8	1.14	28.95	.62	15.75	R8258B	1.64	41.65	2.21	56.13	R8358BFN	2.37	60.20	2.97	75.44
7/16	1.14	28.95	.62	15.75	R8259B	1.64	41.65	2.21	56.13	R8359BFN	2.37	60.20	2.97	75.44
1/2	1.14	28.95	.62	15.75	R8260B	1.64	41.65	2.21	56.13	R8360BFN	2.37	60.20	2.97	75.44
5/8	1.14	28.95	.62	15.75	R8261B	1.64	41.65	2.21	56.13	R8361BFN	2.37	60.20	2.97	75.44
3/4	1.14	28.95	.62	15.75	R8262B	1.64	41.65	2.21	56.13	R8362BFN	2.37	60.20	2.97	75.44
Tool					H40					H40				



For metric dimensions of stud sizes, see page 43.

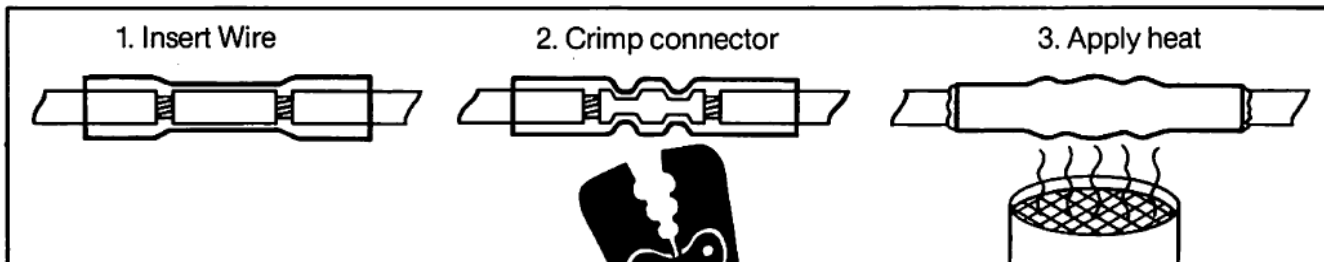


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Seal N' Grip Terminals and Splices Heat Shrink Tubing Preapplied

Seal n' Grip terminals and splices offer premium quality tin plated copper assembled with high grade heat shrinkable irradiated insulation. A slight touch of heat forms the insulation

around the crimped connection and wire, sealing out water, gas and corrosion, plus offering a wire insulation grip able to withstand the most severe vibration applications.



Rings

Catalog Number	Wire Range	Stud Size
R32112	22-16	6
R32313	16-14	8
R32314	16-14	10
R32413	12-10	8
R32414	12-10	10



Butt Splices

Catalog Number	Wire Range	Stud Size
B32130	22-16	BS
B32330	16-14	BS
B32430	12-10	BS



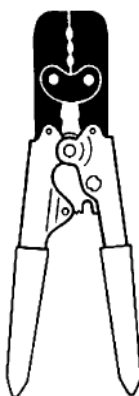
Spades

Catalog Number	Wire Range	Stud Size
S32124	22-16	10
S32323	16-14	8
S32324	16-14	10
S32423	12-10	8
S32424	12-10	10

Controlled Cycle Tool with 3 Crimping Nests for All Wire Ranges

- Controlled cycle tool assures proper crimp every time.
- Double compound action delivers maximum crimp force with minimum effort.
- Elliptical shape nest compresses all copper strands together, resulting in a low resistance connection.

Catalog No. 94130



Heat Gun

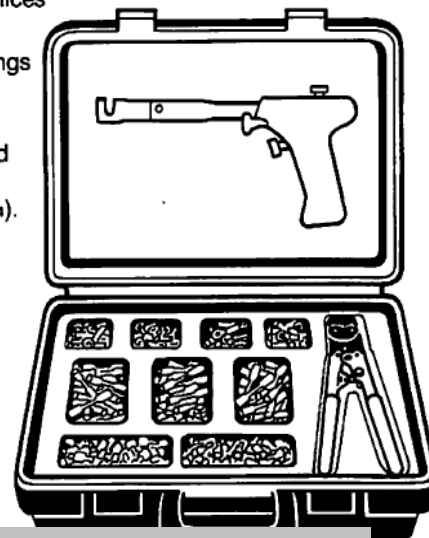
- Self igniting.
- Burns butane gas (standard refills).
- Compact, portable for field use.

Seal N' Grip Waterproof Wiring Kit

(All kits contain 155 assorted connectors.)

- Controlled Cycle Crimping Tool.
- Portable Heat Gun.
- Seal N' Grip Splices (10-22 AWG).
- Seal N' Grip Rings and Spades (10-22 AWG).
- Rugged Molded Case (15½ x 12¼ x 3¼).

Catalog No. 99061



SECTION 9

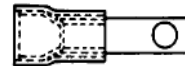
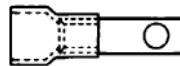
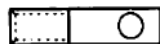
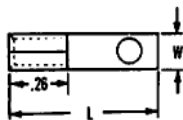
HOLLINGSWORTH

Miscellaneous and Specialty Items

16/14 Straight Tab

WIRE SIZE

CMA Range 2050-5180
Barrel Inside Diameter .085"/2.16 mm

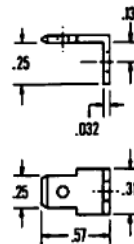
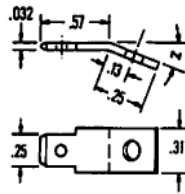
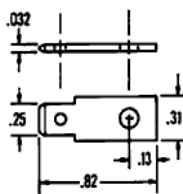


MATERIAL: COPPER
THICKNESS: .032"/.813 mm

BASIC DIMENSION	NON-INSULATED				INSULATED (BLUE VINYL)						
					INSUL. DIA. .195"/4.95 mm		INSUL. DIA. .178"/4.52 mm				
W In. W mm		NIT	NIT Braze	L In.	L mm	Funnel FIT	L In.	L mm	Funnel FIT	L In.	L mm
.15	3.81	ST7000	ST7000B	.83	21.08	ST7010F	1.08	27.43	XST7019	1.10	27.94
Hand Tool		H4A	H4A			H7B			H7B		



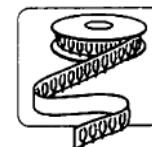
.032 x .250 Male Tabs



MATERIAL: BRASS THICKNESS: .032"/.813 mm

N* Above items are also available in nylon. To order, add N suffix to catalog number. Example: XST7019N.

Stud Size	"Z"	Type Tab	NIT
6	0	Straight	H106†
6	30	Bent	H130†
6	45	Bent	H132†
6	60	Bent	H134†
6	90	Right Angle	H116†
8	0	Straight	H108†
8	30	Bent	H131†
8	45	Bent	H133†
8	60	Bent	H135†
8	90	Right Angle	H118†



All items listed on this page (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: ST7000-T or XST7019N-T.



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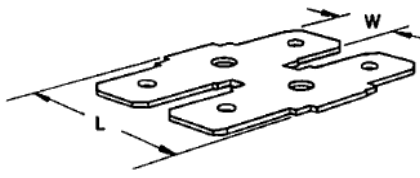
Angic Global Solutions

1-888-872-0690

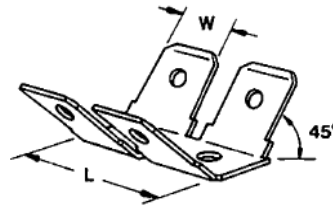
<https://www.AngicGlobal.com> Sales@AngicGlobal.com



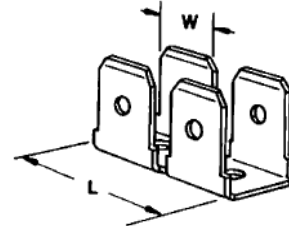
.032 x .250 Male Tab Pairs



STYLE K



STYLE L



STYLE M

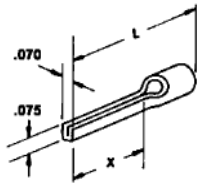
MATERIAL THICKNESS: .032" / .813 mm "W" DIMENSION: .250" / 6.35 mm

NIT	Pairs	Style	Hole Dia. In. mm	Material	L In. mm	L In. mm	NIT	Pairs	Style	Hole Dia. In. mm	Material	L In. mm	L In. mm
H2601	1	K	.130 3.30	Brass	.315 8.00		H2635	1	L	.171 4.34	Tin Plated Brass	.315 8.00	
H2602	2	K	.130 3.30	Brass	.690 17.53		H2636	6	L	.130 3.30	Tin Plated Brass	2.191 55.65	
H2603	3	K	.130 3.30	Brass	1.065 27.05		H2641	1	M	.097 2.46	Brass	.315 8.00	
H2604	4	K	.130 3.30	Brass	1.440 36.58		H2642	2	M	.097 2.46	Brass	.690 17.53	
H2605	1	K	.152 3.86	Brass	.315 8.00		H2643	1	M	.130 3.30	Brass	.315 8.00	
H2606	1	K	.171 4.34	Brass	.315 8.00		H2644	2	M	.130 3.30	Brass	.690 17.53	
H2607	2	K	.171 4.34	Brass	.690 17.53		H2645	3	M	.130 3.30	Brass	1.065 27.05	
H2608	3	K	.171 4.34	Brass	1.065 27.05		H2646	4	M	.130 3.30	Brass	1.440 36.58	
H2609	4	K	.171 4.34	Brass	1.440 36.58		H2647	5	M	.130 3.30	Brass	1.816 46.13	
H2610	1	K	.187 4.74	Brass	.315 8.00		H2648	6	M	.130 3.30	Brass	2.191 55.65	
H2611	1	K	.130 3.30	Tin Plated Brass	.315 8.00		H2649	7	M	.130 3.30	Brass	2.565 65.15	
H2612	2	K	.130 3.30	Tin Plated Brass	.690 17.53		H2650	9	M	.130 3.30	Brass	3.316 84.23	
H2613	3	K	.130 3.30	Tin Plated Brass	1.065 27.05		H2651	12	M	.130 3.30	Brass	4.441 112.80	
H2614	4	K	.130 3.30	Tin Plated Brass	1.440 36.58		H2652	1	M	.152 3.86	Brass	.315 8.00	
H2615	7	K	.130 3.30	Tin Plated Brass	2.565 65.15		H2653	1	M	.171 4.34	Brass	.315 8.00	
H2616	6	K	.130 3.30	Brass	2.191 55.65		H2654	2	M	.171 4.34	Brass	.690 17.53	
H2617	6	K	.130 3.30	Tin Plated Brass	2.191 55.65		H2655	3	M	.171 4.34	Brass	1.065 27.05	
H2618	7	K	.130 3.30	Brass	2.565 65.15		H2656	4	M	.171 4.34	Brass	1.440 36.58	
H2621	1	L	.130 3.30	Brass	.315 8.00		H2661	1	M	.097 2.46	Tin Plated Brass	.315 8.00	
H2622	2	L	.130 3.30	Brass	.690 17.53		H2662	1	M	.130 3.30	Tin Plated Brass	.315 8.00	
H2623	3	L	.130 3.30	Brass	1.065 27.05		H2663	2	M	.130 3.30	Tin Plated Brass	.690 17.53	
H2624	4	L	.130 3.30	Brass	1.440 36.58		H2664	3	M	.130 3.30	Tin Plated Brass	1.065 27.05	
H2625	1	L	.171 4.34	Brass	.315 8.00		H2665	4	M	.130 3.30	Tin Plated Brass	1.440 36.58	
H2626	2	L	.171 4.34	Brass	.690 17.53		H2666	5	M	.130 3.30	Tin Plated Brass	1.816 46.13	
H2627	3	L	.171 4.34	Brass	1.065 27.05		H2667	6	M	.130 3.30	Tin Plated Brass	2.191 55.65	
H2628	4	L	.171 4.34	Brass	1.440 36.58		H2668	7	M	.130 3.30	Tin Plated Brass	2.565 65.15	
H2629	6	L	.130 3.30	Brass	2.191 55.65		H2669	12	M	.130 3.30	Tin Plated Brass	4.441 112.80	
H2631	1	L	.130 3.30	Tin Plated Brass	.315 8.00		H2670	1	M	.152 3.86	Tin Plated Brass	.315 8.00	
H2632	2	L	.130 3.30	Tin Plated Brass	.690 17.53		H2671	1	M	.171 4.34	Tin Plated Brass	.315 8.00	
H2633	3	L	.130 3.30	Tin Plated Brass	1.065 27.05		H2672	4	M	.171 4.34	Tin Plated Brass	1.440 36.58	
H2634	4	L	.130 3.30	Tin Plated Brass	1.440 36.58								



22/16 Wire Pin CMA Range 509-3260 Barrel Inside Diameter .061"/1.55 mm

WIRE SIZE

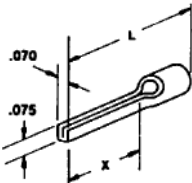


MATERIAL: COPPER
THICKNESS: .032"/.813 mm

BASIC DIMENSIONS		NON-INSULATED			INSULATED (RED VINYL)						
X	X				INSUL. DIA. .160"/4.06 mm			INSUL. DIA. .146"/3.71 mm			
In.	mm	NIT	NIT Brazed	L In.	L mm	Funnel FIT	L In.	L mm	Funnel FIG	L In.	L mm
.41	10.41	WP13000S	WP13000SB	.70	17.78	WP13004SF	.99	25.15	XWP13006S	.99	25.15
.29	7.37	WP13001S	WP13001SB	.58	14.73	WP13005SF	.87	22.10	XWP13007S	.87	22.10
Hand Tool		H4A	H4A			H7B			H7B		

16/14 Wire Pin CMA Range 2050-5180 Barrel Inside Diameter .085"/2.16 mm

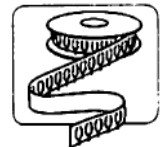
WIRE SIZE



MATERIAL: COPPER
THICKNESS: .032"/.813 mm

BASIC DIMENSIONS		NON-INSULATED			INSULATED (BLUE VINYL)						
X	X				INSUL. DIA. .195"/4.95 mm			INSUL. DIA. .178"/4.52 mm			
In.	mm	NIT	NIT Brazed	L In.	L mm	Funnel FIT	L In.	L mm	Funnel FIG	L In.	L mm
.41	10.41	WP13010S	WP13010SB	.70	17.78	WP13014SF	.99	25.15	XWP13016S	.99	25.15
.29	7.37	WP13011S	WP13011SB	.58	14.73	WP13015SF	.87	22.10	XWP13017S	.87	22.10
Hand Tool		H4A	H4A			H7B			H7B		

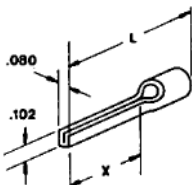
N* Items are also available in nylon. To order, add N suffix to catalog number. Example: XWP13006SN.



All items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Example: WP13000S-T or XWP13006SN-T.

12/10 Wire Pin CMA Range 5180-13,100 Barrel Inside Diameter .131"/3.33 mm

WIRE SIZE



MATERIAL: COPPER
THICKNESS: .040"/1.02 mm

BASIC DIMENSION		NON-INSULATED			INSULATED (YELLOW VINYL)						
X	X				INSUL. DIA. .265"/6.73 mm			INSUL. DIA. .238"/6.05 mm			
In.	mm	NIT	NIT Brazed	L In.	L mm	Funnel FIT	L In.	L mm	Funnel FIG	L In.	L mm
.41	10.41	WP13020	WP13020B	.80	20.32	WP13022F	1.10	27.94	XWP13023	1.15	29.21
Hand Tool		H4A	H4A			H6E			H6E		



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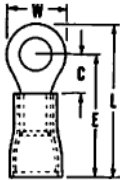
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SECTION 10

Military Specifications

MIL-T-7928 is the most commonly used government specification for solderless terminals. This specification permits the use of Class 1 and Class 2 terminals.



Type I Class 1 terminals are those uninsulated terminals which, when crimped with MS approved crimping tool, meet the performance requirements of the specification.

Type II Class 1 terminals are those insulated terminals which, when crimped with MS approved

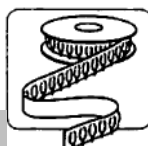
tool, meet the performance requirements of the specification.

Both Type I Class 2 and Type II Class 2 terminals are those which, when crimped with tooling recommended by the manufacturer, meet the performance requirements of the specifications.

The Hollingsworth terminals which meet or exceed these military specifications are listed below and on the following pages.

MIL-T-7928 MS25036 (INSULATED)

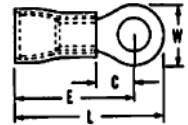
MS-25036 Dash No.	W In.	W mm	C In.	C mm	E In.	E mm	L In.	L mm	Type II Class 1		Type II Class 2		Wire Size	Stud Size
									Vinyl	Nylon	Vinyl	Nylon		
-101	.22	5.59	.16	4.06	.63	16.00	.74	18.80	XR26342	XR26342N	XR26342	XR26342N	22-18	6
-102	.25	6.35	.32	8.13	.77	19.56	.87	22.10	XR26343	XR26343N	XR26343	XR26343N	22-18	6
-103	.31	7.87	.32	8.13	.75	19.05	.91	23.11	XR26345	XR26345N	XR26345	XR26345N	22-18	10
-104	.47	11.94	.44	11.18	.88	22.35	1.09	27.69	XR26347	XR26347N	XR26347	XR26347N	22-18	3/16
-105	.53	13.46	.44	11.18	.90	22.86	1.17	29.72	XR26348	XR26348N	XR26348	XR26348N	22-18	3/8
-106	.25	6.35	.16	4.06	.62	15.75	.74	18.80	XR2442S	XR2442SN	XR2442S	XR2442SN	16-14	6
-107	.31	7.87	.28	7.11	.75	19.05	.91	23.11	XR1901S	XR1901SN	XR1901S	XR1901SN	16-14	6
-108	.31	7.87	.28	7.11	.74	18.80	.90	22.86	XR1903S	XR1903SN	XR1903S	XR1903SN	16-14	10
-109	.46	11.68	.44	11.18	.88	22.35	1.09	27.69	XR1907S	XR1907SN	XR1907S	XR1907SN	16-14	3/16
-110	.53	13.46	.44	11.18	.90	22.86	1.17	29.72	XR1908S	XR1908SN	XR1908S	XR1908SN	16-14	3/8
-111	.37	9.40	.28	7.11	.90	22.86	1.09	27.69	XR5107	XR5107N	XR5107	XR5107N	12-10	6
-112	.37	9.40	.28	7.11	.90	22.86	1.09	27.69	XR5109	XR5109N	XR5109	XR5109N	12-10	10
-113	.52	13.21	.47	11.94	1.07	27.18	1.32	33.53	XR5111	XR5111N	XR5111	XR5111N	12-10	3/16
-114	.59	14.99	.50	12.70	1.12	28.45	1.41	35.81	XR5112	XR5112N	XR5112	XR5112N	12-10	3/8
-115	.38	9.65	.39	9.91	1.05	26.67	1.24	31.50			R3504B	R3504BN	8	10
-116	.47	11.94	.39	9.91	1.04	26.42	1.28	32.51			R3032B	R3032BN	8	1/4
-117	.59	14.99	.57	14.48	1.23	31.24	1.53	38.86			R3033B	R3033BN	8	3/16
-118	.59	14.99	.57	14.48	1.23	31.24	1.53	38.86			R3034B	R3034BN	8	3/8
-119	.47	11.94	.54	13.72	1.38	35.05	1.62	41.15			R4001B	R4001BN	6	10
-120	.47	11.94	.54	13.72	1.38	35.05	1.62	41.15			R4002B	R4002BN	6	1/4
-121	.63	16.00	.54	13.72	1.38	35.05	1.70	43.18			R4003B	R4003BN	6	3/16
-122	.63	16.00	.54	13.72	1.38	35.05	1.70	43.18			R4004B	R4004BN	6	3/8
-123	.56	14.22	.50	12.70	1.47	37.24	1.75	44.45			R5101B	R5101BN	4	1/4
-124	.66	16.76	.50	12.70	1.48	37.59	1.81	45.97			R5102B	R5102BN	4	3/16
-125	.66	16.76	.50	12.70	1.48	37.59	1.81	45.97			R5103B	R5103BN	4	3/8
-126	.60	15.24	.60	15.24	1.67	42.42	1.97	50.04			R8100B	R8100BN	2	1/4
-127	.70	17.78	.60	15.24	1.67	42.42	2.02	51.31			R8103B	R8103BN	2	3/8
-128	.81	20.57	.60	15.24	1.67	42.42	2.07	52.58			R8104B	R8104BN	2	1/2
-132	.88	22.35	.58	14.73	2.19	55.63	2.63	66.80			R8302BFN	2/0 AWG-1/0 AIR	1/4	
-133	.88	22.35	.58	14.73	2.19	55.63	2.63	66.80			R8304BFN	2/0 AWG-1/0 AIR	3/8	
-134	.88	22.35	.58	14.73	2.19	55.63	2.63	66.80			R8306BFN	2/0 AWG-1/0 AIR	1/2	
-135	.93	23.62	.58	14.73	2.24	56.90	2.71	68.83			R8321BFN	3/0 AWG-2/0 AIR	3/16	
-136	.93	23.62	.58	14.73	2.24	56.90	2.71	68.83			R8322BFN	3/0 AWG-2/0 AIR	3/8	
-137	.93	23.62	.58	14.73	2.24	56.90	2.71	68.83			R8324BFN	3/0 AWG-2/0 AIR	1/2	
-143	.14	3.56	.17	4.32	.62	15.75	.69	17.53	XR26336	XR26336N	XR26336	XR26336N	26-24	2
-144	.20	5.08	.22	5.59	.65	16.51	.76	19.30	XR26337	XR26337N	XR26337	XR26337N	26-24	4
-145	.25	6.35	.29	7.37	.73	18.54	.86	21.84	XR26338	XR26338N	XR26338	XR26338N	26-24	6
-146	.32	8.13	.29	7.37	.76	19.30	.86	21.84	XR26339	XR26339N	XR26339	XR26339N	26-24	8



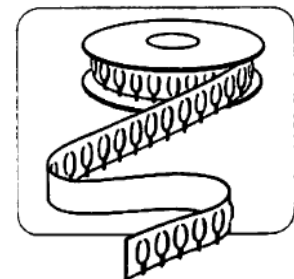
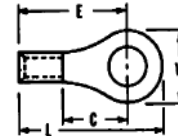
Items listed on this spread are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.

Military Specifications

MIL-T-7928 MS-25036 (INSULATED)														
MS-25036 Dash No.	W In.	W mm	C In.	C mm	E In.	E mm	L In.	L mm	Type II Class 1		Type II Class 2		Wire Size	Stud Size
									Vinyl	Nylon	Vinyl	Nylon		
-147	.32	8.13	.29	7.37	.72	18.29	.86	21.84	XR26340	XR26340N	XR26340	XR26340N	26-24	10
-148	.22	5.59	.16	4.06	.70	17.78	.73	18.54	XR26341	XR26341N	XR26341	XR26341N	22-18	4
-149	.31	7.87	.32	8.13	.76	19.30	.93	23.62	XR26344	XR26344N	XR26344	XR26344N	22-18	8
-150	.47	11.94	.44	11.18	.87	22.10	1.09	27.69	XR26346	XR26346N	XR26346	XR26346N	22-18	1/4
-152	.25	6.35	.16	4.06	.59	14.99	.73	18.54	XR2441S	XR2441SN	XR2441S	XR2441SN	16-14	4
-153	.31	7.87	.28	7.11	.72	18.29	.90	22.86	XR1902S	XR1902SN	XR1902S	XR1902SN	16-14	8
-154	.46	11.68	.44	11.18	.87	22.10	1.12	28.45	XR1906S	XR1906SN	XR1906S	XR1906SN	16-14	1/4
-156	.37	9.40	.28	7.11	.87	22.10	1.08	27.43	XR5108	XR5108N	XR5108	XR5108N	12-10	8
-157	.52	13.21	.47	11.94	1.06	26.92	1.32	33.53	XR5110	XR5110N	XR5110	XR5110N	12-10	1/4
-158	.71	18.03	.50	12.70	1.09	27.69	1.41	35.81	XR5117	XR5117N	XR5117	XR5117N	12-10	1/2
-159	.22	5.59	.16	4.06	.70	17.78	.73	18.54	XR26364	XR26364N	XR26364	XR26364N	22-18	2



MIL-T-7928 MS-20659 (NON-INSULATED)												
MS-20659 Dash No.	W In.	W mm	C In.	C mm	E In.	E mm	L In.	L mm	Type I		Wire Size	Stud Size
									Class 1	Class 2		
-105	.37	9.40	.28	7.11	.56	14.22	.74	18.80	R3457B	R3457B	12-10	10
-106	.52	13.21	.47	11.94	.74	18.80	1.01	25.65	R3459B	R3459B	12-10	5/16
-107	.38	9.65	.39	9.91	.71	18.03	.90	22.86		R3500B	8	10
-108	.59	14.99	.57	14.48	.89	22.61	1.20	30.48		R3462B	8	5/16
-109	.47	11.94	.54	13.72	.94	23.88	1.18	29.97		R64642B	6	1/4
-110	.63	16.00	.54	13.72	.94	23.88	1.26	32.00		R64644B	6	3/8
-111	.56	14.22	.50	12.70	.97	24.64	1.25	31.75		R5001B	4	1/4
-112	.66	16.76	.50	12.70	.97	24.64	1.30	33.02		R5003B	4	3/8
-113	.60	15.24	.60	15.24	1.14	28.96	1.45	36.83		R8000B	2	1/4
-114	.70	17.78	.60	15.24	1.14	28.96	1.50	38.10		R8003B	2	3/8
-117	.88	22.35	.58	14.73	1.50	38.10	1.93	49.02		R8202B	2/0 AWG-1/0 AIR	1/4
-118	.88	22.35	.58	14.73	1.50	38.10	1.93	49.02		R8204B	2/0 AWG-1/0 AIR	3/8
-119	.93	23.62	.58	14.73	1.50	38.10	1.97	50.04		R8221B	3/0 AWG-2/0 AIR	5/16
-120	.93	23.62	.58	14.73	1.50	38.10	1.97	50.04		R8222B	3/0 AWG-2/0 AIR	3/8
-128	.59	14.99	.50	12.70	.77	19.56	1.07	27.18	R3220B	R3220B	12-10	3/8
-129	.58	14.73	.57	14.48	.89	22.61	1.20	30.48		R3463B	8	3/8
-130	.47	11.94	.54	13.72	.94	23.88	1.18	29.97		R64641B	6	10
-131	.63	16.00	.54	13.72	.94	23.88	1.26	32.00		R64643B	6	5/16
-132	.66	16.76	.50	12.70	.97	24.64	1.30	33.02		R5002B	4	5/16
-133	.81	20.57	.60	15.24	1.14	28.96	1.55	39.37		R8004B	2	1/2
-135	.88	22.35	.58	14.73	1.50	38.10	1.93	49.02		R8206B	2/0 AWG-1/0 AIR	1/2
-136	.93	23.62	.58	14.73	1.50	38.10	1.97	50.04		R8224B	3/0 AWG-2/0 AIR	1/2
-140	.38	9.65	.39	9.91	.71	18.03	.90	22.86		R3499B	8	8
-141	.47	11.94	.39	9.91	.71	18.03	.95	24.13		R3461B	8	1/4
-142	.88	22.35	1.00	25.40	1.32	33.53	1.76	44.70		R3492B	8	1/2
-143	.88	22.35	1.00	25.40	1.41	35.81	1.85	46.99		R64654B	6	1/2
-144	.66	16.76	.50	12.70	.97	24.64	1.30	33.02		R5013B	4	10
-145	.88	22.35	1.00	25.40	1.47	37.34	1.91	48.51		R5007B	4	1/2
-146	.60	15.24	.60	15.24	1.14	28.96	1.45	36.83		R7999B	2	10
-147	.70	17.78	.60	15.24	1.14	28.96	1.50	38.10		R8002B	2	5/16
-148	.81	20.57	.60	15.24	1.14	28.96	1.55	39.37		R8005B	2	7/16
-151	.88	22.35	.58	14.73	1.50	38.10	1.93	49.02		R8203B	2/0 AWG-1/0 AIR	5/16
-152	.88	22.35	.58	14.73	1.50	38.10	1.93	49.02		R8205B	2/0 AWG-1/0 AIR	7/16
-153	.93	23.62	.58	14.73	1.50	38.10	1.97	50.04		R8220B	3/0 AWG-2/0 AIR	1/4
-154	.93	23.62	.58	14.73	1.50	38.10	1.97	50.04		R8223B	3/0 AWG-2/0 AIR	7/16
-165	.31	7.87	.27	6.86	.54	13.72	.70	17.78	R3453B	R3453B	12-10	6
-166	.71	18.03	.50	12.70	.77	19.56	1.13	28.70	R3223B	R3223B	12-10	1/2



Items listed on this page are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number. Note: 26 thru 4 AWG only.



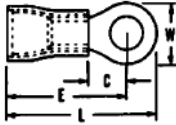
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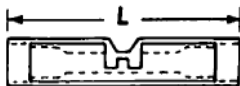
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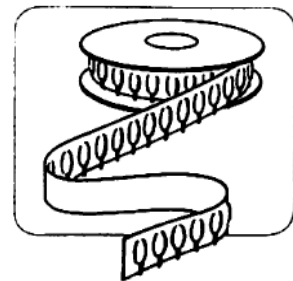
Military Specifications



MIL-T-7928/7 (NON-INSULATED) RING TONGUE												
M7928/7 Dash No.	W In.	W mm	C In.	C mm	E In.	E mm	L In.	L mm	Type I Class 1	Type I Class 2	Wire Size	Stud Size
-1	.22	5.58	.16	4.06	.43	10.92	.54	13.72	R4494B	R4494B	22-18	2
-2	.22	5.58	.16	4.06	.43	10.92	.54	13.72	R4495B	R4495B	22-18	4
-3	.28	7.12	.32	8.13	.58	14.73	.72	18.29	R4496B	R4496B	22-18	6
-4	.28	7.12	.32	8.13	.58	14.73	.72	18.29	R4497B	R4497B	22-18	10
-5	.47	11.94	.44	11.18	.70	17.78	.93	23.62	R4498B	R4498B	22-18	5/16
-6	.53	13.46	.44	11.18	.70	17.78	.96	24.38	R4499B	R4499B	22-18	3/8
-7	.31	7.87	.28	7.11	.55	13.97	.70	17.78	R4121B	R4121B	16-14	6
-8	.31	7.87	.28	7.11	.55	13.97	.70	17.78	R4123B	R4123B	16-14	10
-9	.44	11.18	.44	11.18	.71	18.03	.93	23.62	R4125B	R4125B	16-14	5/16
-10	.53	13.46	.44	11.18	.70	17.78	.96	24.38	R4126B	R4126B	16-14	3/8
-11	.25	6.35	.16	4.06	.43	10.92	.54	13.72	R4119B	R4119B	16-14	4



MIL-T-7928/5 INSULATED SPLICES (WINDOW BUTT CONNECTORS)					
M7928/5 Dash No.	L In.	L mm	Type II Class 1	Type II Class 2	Wire Size
-1	.86	21.84	B1868BN†	B1868BN	26-24
-2	.98	24.89	B1841BN	B1841BN	24-20
-3	1.16	29.46	B1870BN	B1870BN	22-18
-4	1.16	29.46	B1871BN	B1871BN	16-14
-5	1.57	39.88	B1872BN	B1872BN	12-10



† All items listed on this page (except those marked with dagger symbol), are available tape mounted for fast, automatic crimping with the Hollingsworth H270 Crimping Machine. To order on tape, add -T suffix to catalog number.

SECTION 11

Maintenance and Crimping Tools

Use the right tool. Hopefully you've made the decision to buy Hollingsworth quality terminals. Hollingsworth's line of matched tooling will help maintain that quality on your end product.

You're assured the job is done right the first time because Hollingsworth's tools are engineered for consistent, fool-proof operation. Once the crimp is started, the ratchet hand tools won't release the terminal until it has been fully crimped. The shape of our dies prevent overcrimping and assure optimum dielectric and pull-out values. With the power tools, perfect crimps are automatic.

Your operators will like our tools, too. The hand tools are lightweight and easy to operate with comfortable plastic coated handles and clearly marked nests. The pneumatic and semi-automatic tools effortlessly crimp a wide variety of terminals and require a minimum of maintenance.

And the best doesn't have to cost the most! You'll find Hollingsworth tool prices are highly competitive. And you'll have less rejects and less downtime which can mean additional savings—day in and day out.

USE THE RIGHT TOOL—USE HOLLINGSWORTH.



Maintenance Kits

All-in-one maintenance kit is a day-in, day-out time saver. Each kit contains a multipurpose H2A maintenance tool along with a wide selection of quality Hollingsworth terminals and connectors designed to work with the H2A tool. Kits are available in a large or small version with non-insulated (NIT), fixed insulated (FIT), or fixed insulated insulation grip (FIIG) terminals. The small kits contain 12 different terminals, connectors and pigtailed; the large kits contain 20.

TYPE KIT	CATALOG NUMBER	
	Small	Large
NIT	81	1-ONL
FIT	82	1-OFL
FIIG	83	2-OFL



H2A Maintenance Tool

The H2A hand tool is an inexpensive multipurpose maintenance tool designed for easy operation. It produces a quality crimp in a wide variety of solderless terminals and connectors; insulated and non-insulated terminals in sizes 22 through 10 AWG, plus butt and parallel connectors and pigtails.



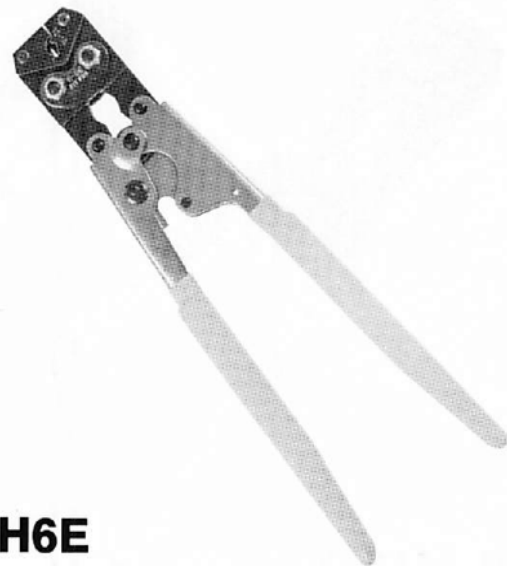
H3A Easy-Crimp™ Hand Ratchet Tool

The H3A provides quality crimping of all fixed insulated terminals (FIT) and connectors in 22-10 AWG wire sizes. A locator positions and holds the terminal while wire is inserted. The tool, not the operator assures a perfect crimp everytime; for once the crimp is started, the jaws won't open until the crimp is completed.



H4A Easy-Crimp™ Hand Ratchet Tool

The H4A provides quality crimping of all non-insulated terminals (NIT) and connectors in the 22-10 AWG wire sizes. The ratchet-action of the tool assures a quality crimp, for once the jaws begin to close, the operator must complete the crimp cycle before they can be reopened. For foolproof operator identification, each nest is clearly marked by wire size.



H6E Easy-Crimp™ Hand Ratchet Tool

The H6E crimps terminals, butt connectors and parallels in the 12-10 AWG wire range; also 16-14 AWG Heavy Duty terminals. A specially designed locator and wire stop makes the H6E easy to load and speeds production. The tool, not the operator assures a perfect crimp, for once the crimp is started, the jaws cannot be reopened until crimp cycle is complete.



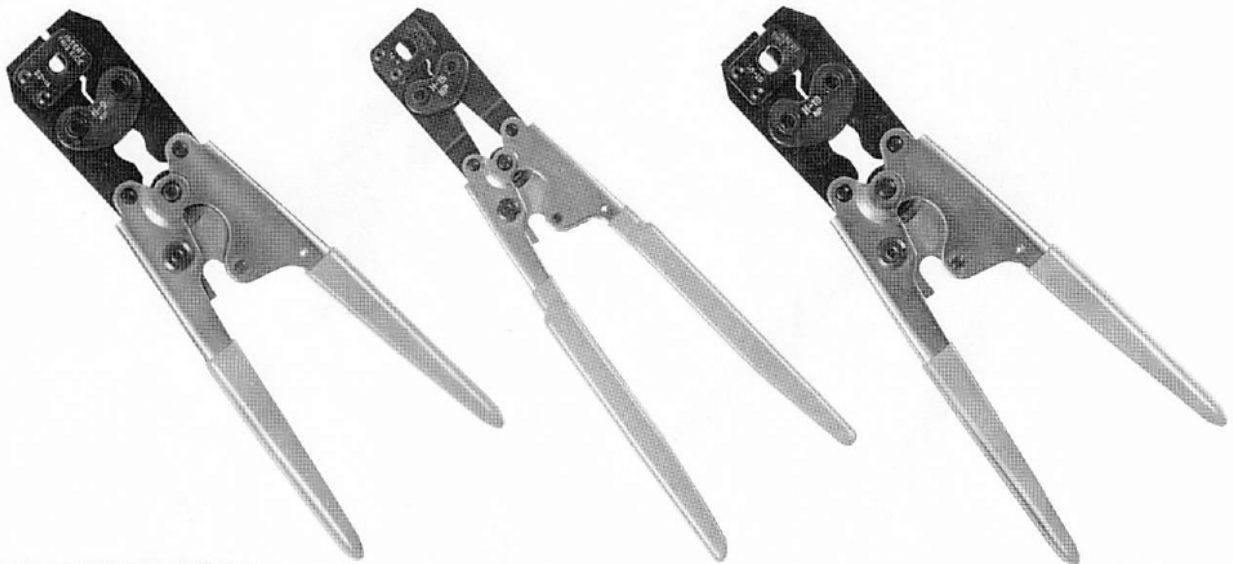
H7B **Easy-Crimp™** **Hand Ratchet Tool**

This precision tool provides quality crimping of Funnel FIT and Funnel FIIG terminals, butt and parallel connectors in 22-14 AWG wire sizes. High quality crimping is automatic even with unskilled operators: A locator positions and holds the part while the wire is inserted. With the wire in place, the operator simply closes the handles to complete the crimp. Once the jaws begin to close, the crimping cycle must be completed before the jaws can be reopened.



H8A **Easy-Crimp™** **Hand Ratchet Tool**

The H8A crimps funnel entry fixed insulated (FUNNEL FIT) and funnel entry fixed insulated insulation grip (FUNNEL FIIG) terminals in the 26-22 AWG sizes; and funnel entry fixed insulated insulation grip (FUNNEL FIIG) terminals in the 24-20 AWG wire range. It will also crimp funnel entry fixed insulated insulation grip (FUNNEL FIIG) window butt connectors in the 26-22 AWG and 24-20 AWG wire sizes.



H9, H15, H18 **Easy-Crimp™ Hand Ratchet Tools**

Even unskilled operators can produce high quality, high output crimps with these ratchet-action tools. Especially designed to crimp the Hollingsworth pigtail product line. The H9 crimps nylon and kynar pigtails in the 22-14 AWG wire range. The H15 crimps nylon and kynar pigtails in the 18-8 AWG wire range. The H18 crimps nylon pigtails in the 18-10 AWG wire range.

In each tool, a specially designed locator makes the tool easy to load and speeds production. The locator positions and holds the pigtail while the wires are inserted. The tool, not the operator, assures a perfect crimp everytime, because once the jaws begin to close, the operator must complete the crimping cycle before they can be reopened.



H12 Multipurpose Slip-On Crimping Tool

The H12 is a scissor-action, plier-type tool with five crimping nests to speed production at lower costs. It provides quality crimping of 22-18 AWG and 16-14 AWG female slip-on, non-insulated (SO NIT), flag (SO NIT FLAG), and insulation grip (SO NIT IG) terminals in the .187, .205 and .250 tab series. One tool crimps five types and sizes. Each nest is plainly marked for accurate usage identification.



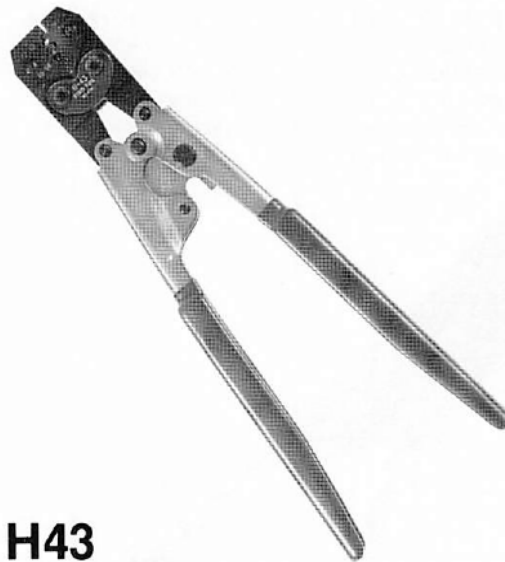
H13 Easy-Crimp™ Hand Ratchet Tool

The H13 provides quality crimping of 22-18 AWG and 16-14 AWG female slip-on couplers, fixed insulated female slip-ons (SO FIT) and fully insulated slip-ons (FISO FIT) terminals in the .187, .205 and .250 tab series. Handles and nests are color coded for proper usage identification. Even unskilled operators can produce high quality, high output crimps with this ratchet-action tool.



H16HT Easy-Crimp™ Hand Ratchet Tool

The H16HT provides quality crimping of 22-10 AWG 650° and 900° high temperature terminals, male slip-ons and butt connectors. Clear engraved markings identify the proper crimping nest for each terminal size. Ratchet-action guarantees a high quality crimp everytime, regardless of the operator's skill. Extra long handles minimize operator fatigue. (H12 crimps high temperature female slip-ons.)



H43 Easy-Crimp™ Hand Ratchet Tool

This heavy duty, precision tool provides quality crimping of slip-on terminals in 22 through 14 AWG wire sizes. Easy to use, the locator positions and holds the terminal while the wire is inserted. With ratchet-action, even unskilled operators produce a perfect crimp each and everytime.



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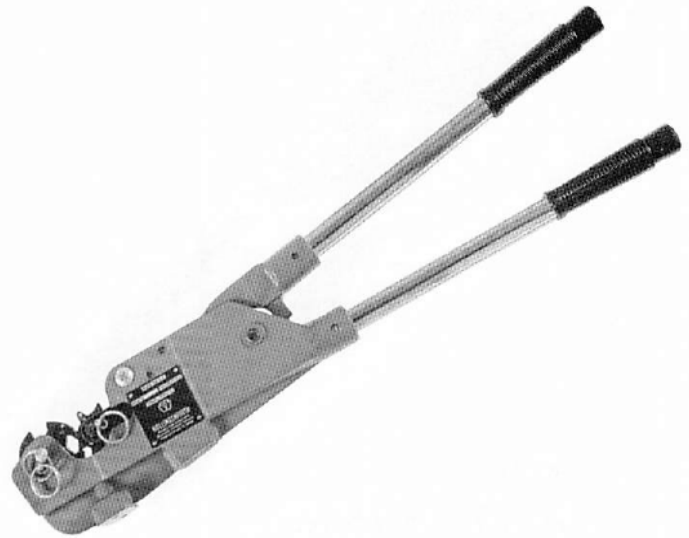
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H20 Rotary Nest Crimping Tool

Easy to use, the H20 provides fast and accurate crimping in wire sizes 8 through 2 AWG, for both fixed insulated (FIT) and non-insulated (NIT) terminals, butt and parallel connectors. Versatile 4-in-1 rotary crimping dies eliminate change-over from size to size; one die crimps FIT terminals, the other die crimps NIT terminals. Clear wire size marking and color coding insure the proper selection by the operator. May be bench mounted for convenient operation.

PART NUMBER	DESCRIPTION
H20	Rotary Nest Tool Base with Male Indent Die
H20M	Male Indent Die
H20N	Female NIT Die
H20F	Female FIT Die



H35 Easy-Crimp™ Hand Ratchet Tool

The H35 provides quality crimping of all 22-18 AWG and 16-14 AWG fully insulated (female) bullet receptacles. The tool, not the operator assures perfect crimp every-time for once the crimp is started, the jaws cannot open until the crimp cycle is completed. Clearly marked nests for quick, accurate identification.



H46, H47 Easy-Crimp™ Hand Ratchet Tools

These reliable, precision made tools speed production in crimping fully insulated flag slip-on terminals. The H46 crimps fully insulated flags in the 22-18 AWG wire size and the H47 crimps fully insulated flags in the 16-14 AWG wire size. The ratchet-action of the tool assures an easy and quality crimp.



H28 Pneumatic Crimping Tool

With a complete line of quick-change crimping heads, the rugged H28 produces high quality crimps on a wide variety of insulated and noninsulated terminals and connectors in wire sizes 26 through 10 AWG. Hand held, suspended from a cable or benchmounted, the

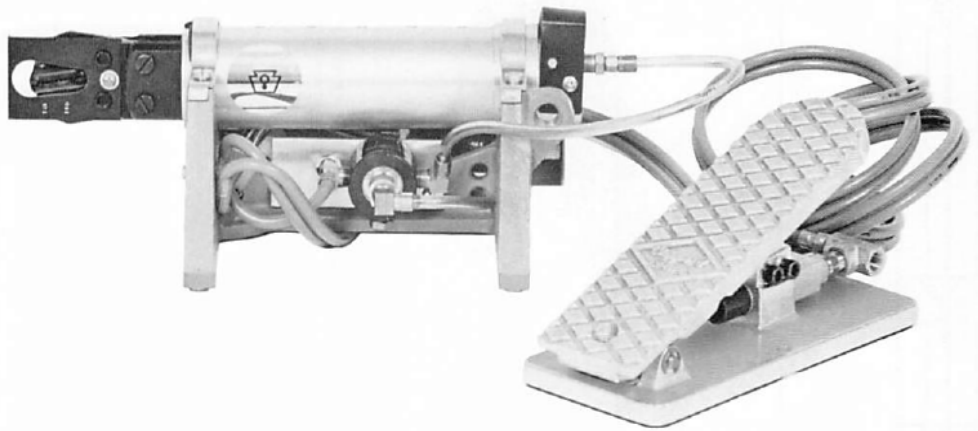
H28 offers many of the advantages of more expensive automatic terminating equipment. Bench Mount and Full Cycle Control available. (Illustrated.)

Bench mounted and operated by a foot controlled valve, frees both hands to position terminals and wires. For added

reliability, pneumatic full-cycle control causes tool to cycle completely each time it is actuated.

The H28 air cylinder accommodates a number of crimping heads:

Head Number	Wire Size	
H28-3A	22-10 AWG	See the individual specification sheets of Hollingsworth hand tools for a complete description of the terminals and connectors that can be crimped by the corresponding H28 crimping head.
H28-4A	22-10 AWG	
H28-6E	12-10 AWG	
H28-7B	22-14 AWG	
H28-8A	26-20 AWG	
H28-9	22-14 AWG	
H28-13	22-14 AWG	
H28-18	18-10 AWG	
H28-43	22-14 AWG	
H28-46	22-18 AWG	
H28-47	16-14 AWG	



H38 Pneumatic Crimping Tool

The H38 air cylinder with the H38-15 crimping head is especially designed to crimp the NP5671, an 18-8 AWG nylon pigtail connector. This heavy-duty air-powered crimping tool increases productivity right from the start. Because the tool, not the operator does most of the work, productivity remains high shift after shift. Bench Mount and Full Cycle Control available.



H30, H40 Pneumatic Crimping Tools

The H30, and its big brother the H40, are heavy duty tools built for years of punishment. Four-indentor dies for both tools may be quickly changed without tools or adjustments. The H30 crimps insulated and non-insulated terminals in 8 AWG to 2/0 wire sizes. The H40 crimps insulated terminals in 1/0 to 250 MCM and non-insulated terminals in 8 AWG to 250 MCM wire sizes. Both tools can be bench mounted and a foot controlled valve is available for both units.

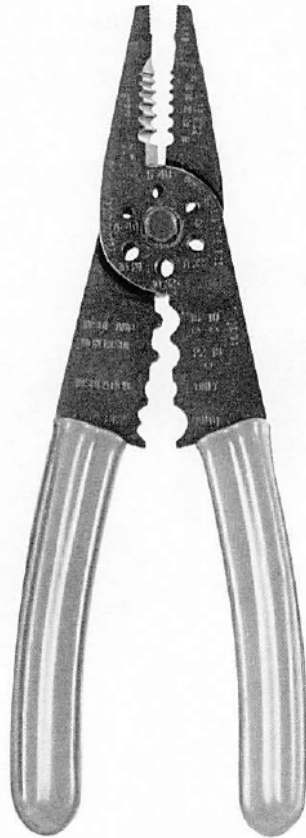


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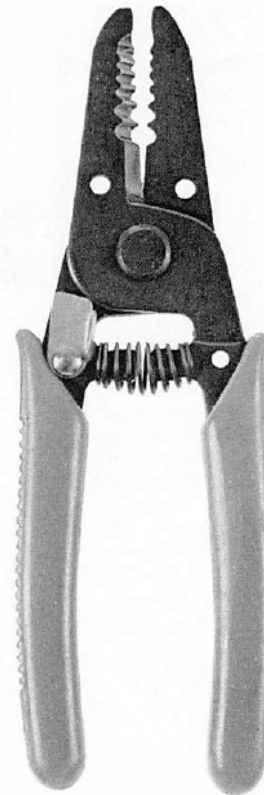


H19
Multiplier™
**Multi-purpose
Maintenance Tool**

The Multiplier™ is a heavy-duty hand tool that can perform a wide variety of maintenance chores. Its unique machined wire stripper effortlessly strips wire in sizes 22 through 10 AWG, and the tool's strategically placed cutter cleanly cuts wire with a minimum of effort.

The Multiplier™ also cuts six common sizes of bolts and screws and crimps insulated and non-insulated terminals in wire sizes 22 through 10 AWG... 7-8mm auto ignition terminals too!

Equipped with comfortable plastic coated handles, this rugged all purpose tool is tough enough to take the punishment your daily maintenance requirements demand.



H45
Mini-stripper
Wire Stripping Tool

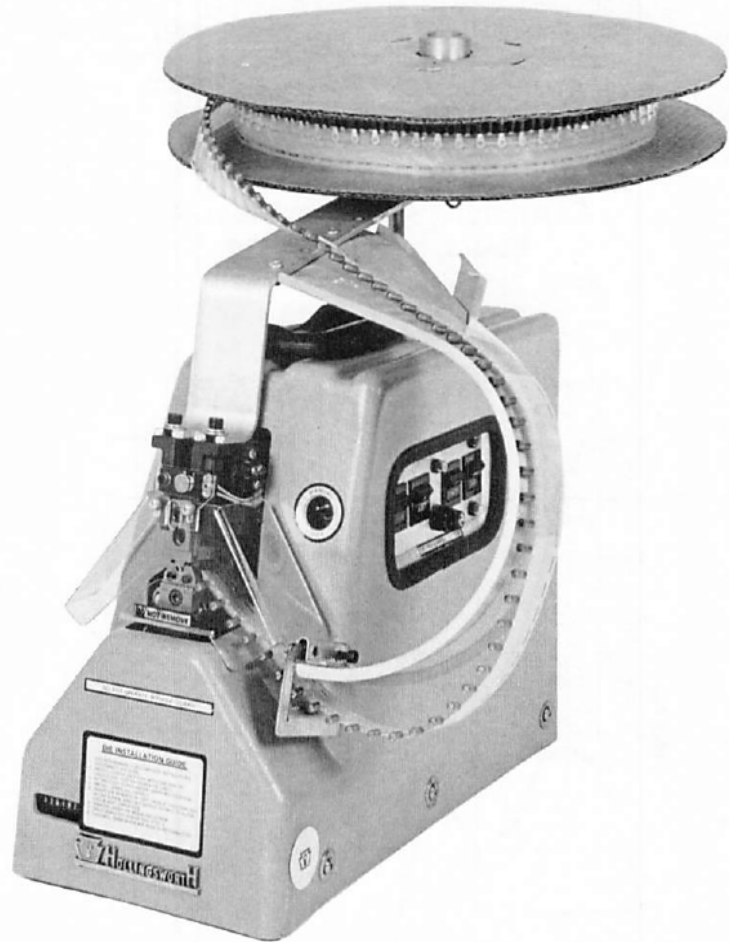
The inexpensive Mini-stripper is a lightweight wire stripper and cutter designed for operator ease and comfort. Its unique machined stripper effortlessly strips wire in sizes 20 through 10 AWG (.5mm² to 5.3mm²). The "scissors action" cutter offers a better, cleaner cut and stays sharper longer than traditional "chisel" cutters.

Up front cutting, stripping stations and a serrated pliers jaw add to the Mini-stripper's versatility and allow the user to easily reach into tight places. Plastic coated handles and convenient return spring make for comfortable all-day operation, and the hardened pivot joint and edge-protecting lock insure long life and consistent performance.

H270 Automatic Crimping for Terminals on Tape

Fast, safe, automatic terminal crimping with the improved, advance-design H270.

- Crimps up to 3600 pieces per hour
- Quick change dies crimp a full range of insulated and non-insulated terminals from 26 through 4 AWG wire sizes
- Can be operated manually or in automatic mode
- Easy and safe to use, feed, and change dies
- Requires normal 75-105 psi shop air and 115V 60Hz electricity
- Terminal crimping reels are top-mounted on an integral support bracket



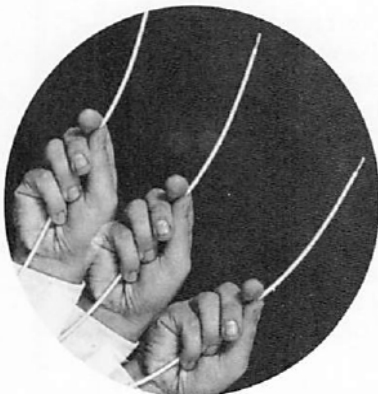
OPERATION

Automatic Mode

The foot treadle is held down continuously, and stripped wire ends are inserted into terminal. Sensor activates machine only when wire is in exact position, providing best possible crimp. Permits unskilled labor to use the machine.

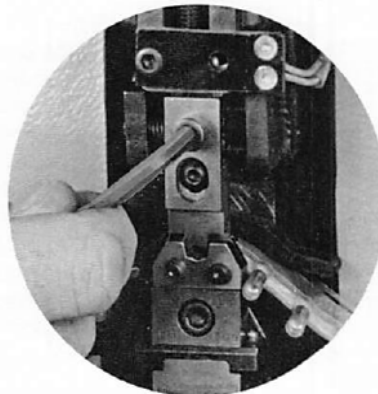
Manual Mode

The operator places stripped wire end in the terminal between the crimping jaws and depresses the foot treadle. Foot treadle actuates the crimping jaws.



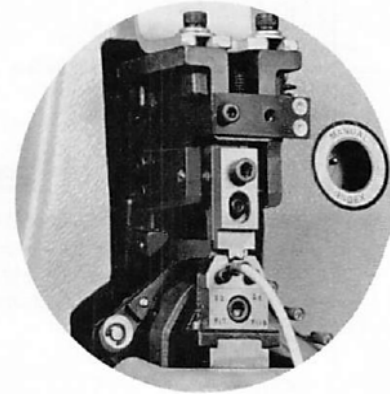
FAST

The H270 operates as fast as your fastest operator can insert stripped wire ends.



FOOLPROOF

Dies are held in place with just two screws. Precise, built-in, foolproof die alignment—you can't insert them wrong.



TROUBLE-FREE

Smooth-operating, problem-free ejector mechanism ejects crimped terminals. Machine is virtually jam-proof.

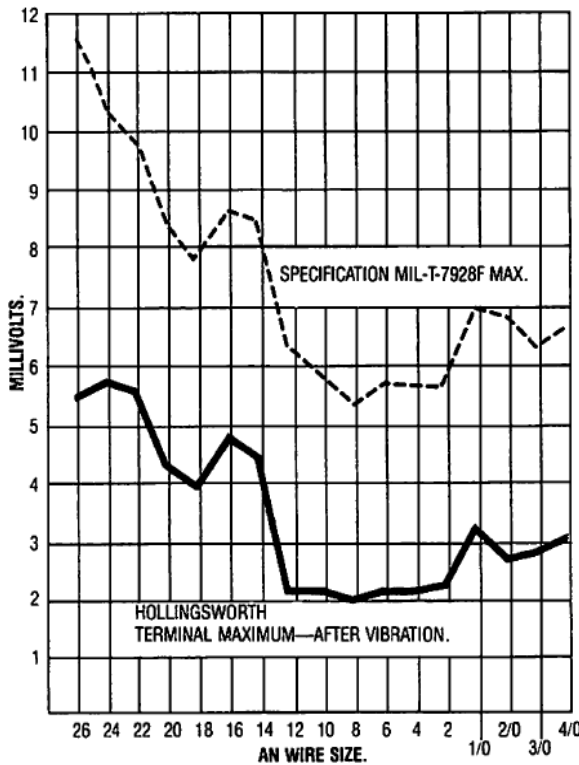
SECTION 12

Performance Characteristics

These tests were performed under strict laboratory controlled conditions and may vary depending on type of wire and terminal combinations, wire stripping methods, and maintenance of proper gaging and calibration of manufacturer's recommended tooling.

CHART 9072 Corrosion (Salt Spray) Test 48 hours, 5% NaCl Fog

NOTE: Specification Maximum: Voltage drop of equivalent wire length, plus specification allowance.



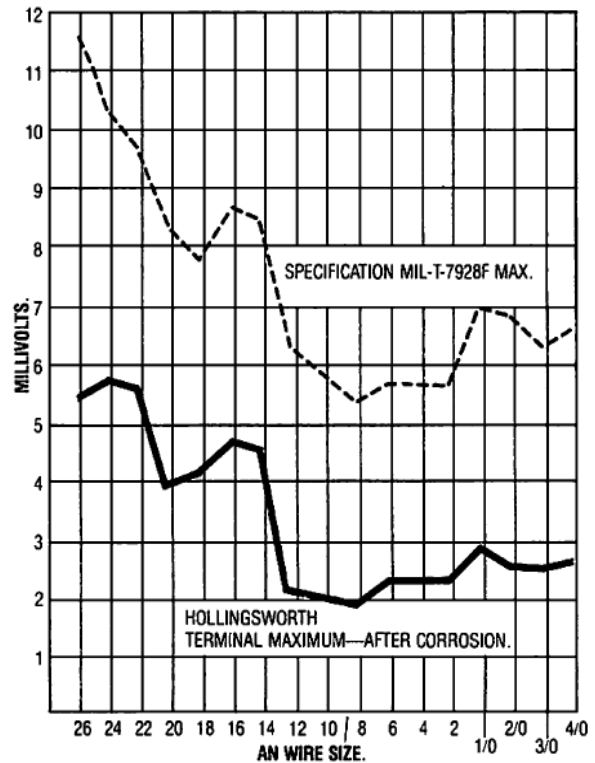
Salt Spray (Corrosion) Test

The purpose of this test, in which terminal samples are subjected to a fine mist of 5% salt solution for a specified time (48 hours), is to provide an accelerated laboratory conducted corrosion test.

The curves shown on chart 9072 plot the final voltage drops (i.e., after subjecting the samples to salt spray), as called for in specification MIL-T-7928. For a terminal to meet or exceed requirements, its voltage drop readings after test must fall below the limits shown in the upper curve (final). All Hollingsworth Military approved terminals exceed MIL-T-7928 Salt Spray (Corrosion) Test requirements.

CHART 9073 Vibration Test 10-55 C.P.S. for 36 hours

NOTE: Specification Maximum: Voltage drop of equivalent wire length, plus specification allowance.



Vibration Test

The purpose of this test is to determine the detrimental effect of vibration on the terminal. Terminals are attached to each end of a suitable length of wire. The test terminals are mounted in a specially built vibration machine, conforming to the requirements as set out in paragraph 4.7.7 of specifications MIL-T-7928.

The test terminals are subjected to vibrations of 10 through 55 cps. for a period of 18 hours in one plane and a further 18 hours in a plane normal to the first; a total test period of 36 hours, and are subjected to voltage drop tests before and after vibration.

The curves shown on chart 9073 plot final voltage drops (i.e. after subjecting the samples to the vibration test). For a terminal to meet or exceed requirements, its voltage drop readings after test must fall below the limits shown in the upper curve (final). All Hollingsworth Military approved terminals exceed MIL-T-7928 Vibration Tests.

CHART 9074
Tensile Strength Test 26-10 AWG

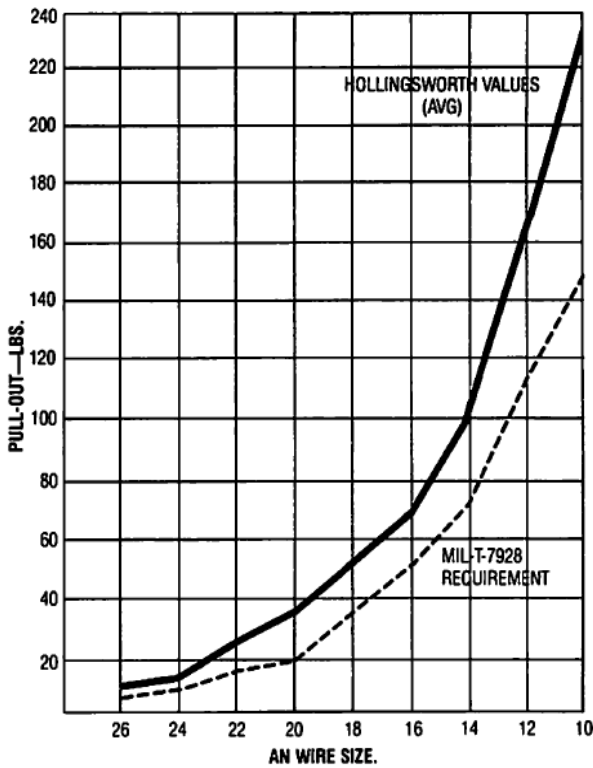


CHART 9081
Tensile Strength Test 250-500 MCM

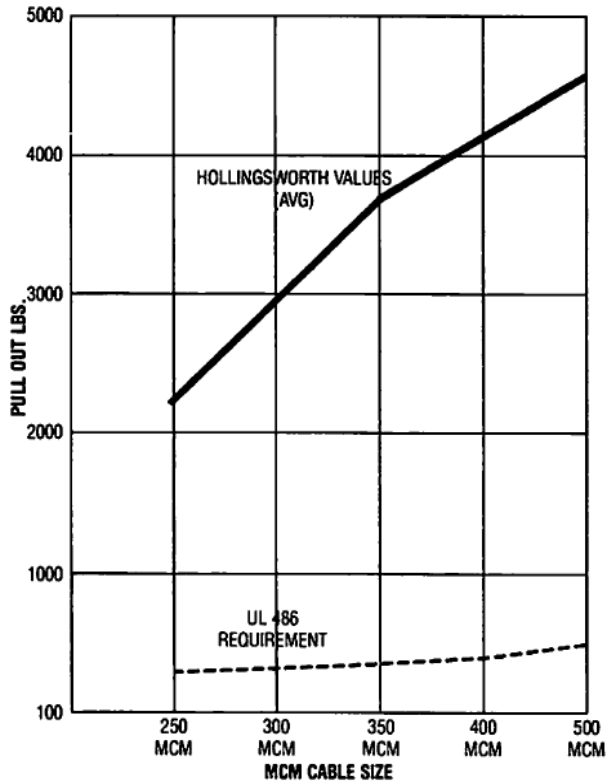
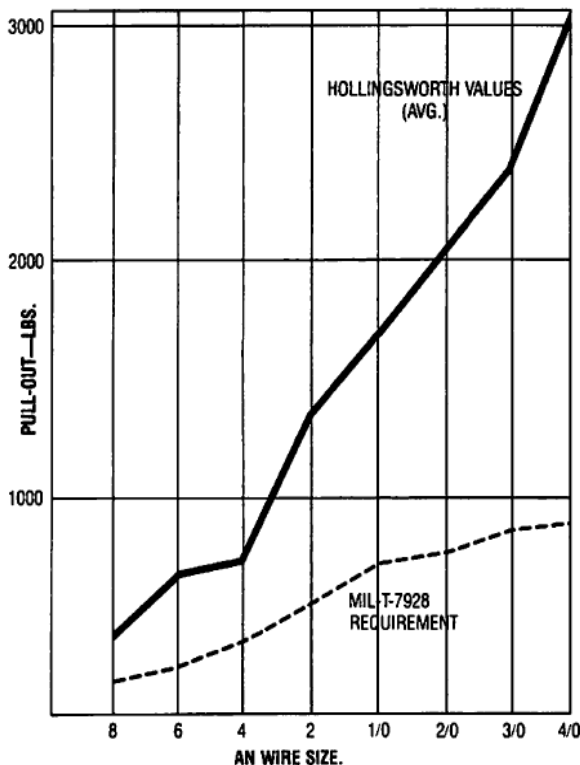


CHART 9075
Tensile Strength Test 8-4/0 AWG



Tensile Strength Test

The purpose of this test is to ensure secureness of the crimped terminal. The test is carried out as indicated under paragraph 4.7.8 of specifications MIL-T-7928.

After crimping the terminal to a suitable length of wire, it is placed in a standard tensile testing machine and sufficient force is applied to pull the wire out of the terminal or break the wire, or the terminal.

The lower curve on charts 9074 and 9075 plots the minimum pull out force expected for the various wire sizes crimped. The upper curve plots average pull out forces measured in actual tests on numerous samples. All Hollingsworth Military approved terminals exceed MIL-T-7928 Tensile Strength requirements.

The lower curve on chart 9081 plots the minimum pull out force expected for the various cable sizes crimped under U.L. Requirement 486. The upper curve plots average pull out forces measured in actual tests on numerous samples. All Hollingsworth 250 through 500 MCM terminals and splices exceed U.L. 486 requirements.

SECTION 13

Easy-Tys—The Outstanding Wire and Cable Wrapping System

Hollingsworth's wire and cable wrapping system is engineered for simple and secure binding. It consists of strong, flexible Easy-Ty cable ties and a rugged, easy-to-use tensioning tool. The Easy-Tys are designed for quick insertion into the unique, self-locking head. The tensioning tool is designed for trouble-free production line use.

Easy-Tys put an end to unwieldy wiring configurations by securing wire bundles, cables and harnesses into neat and manageable packages. Hollingsworth's selection of ties includes a wide variety of popular sizes in both

standard and mounting styles to match your needs.

Easy-Tys are made of high-strength Nylon that resists abrasion and chemicals such as common solvents, alkalies, dilute acids, oils and greases. They have excellent dielectric properties, are self-extinguishing and fungus resistant.

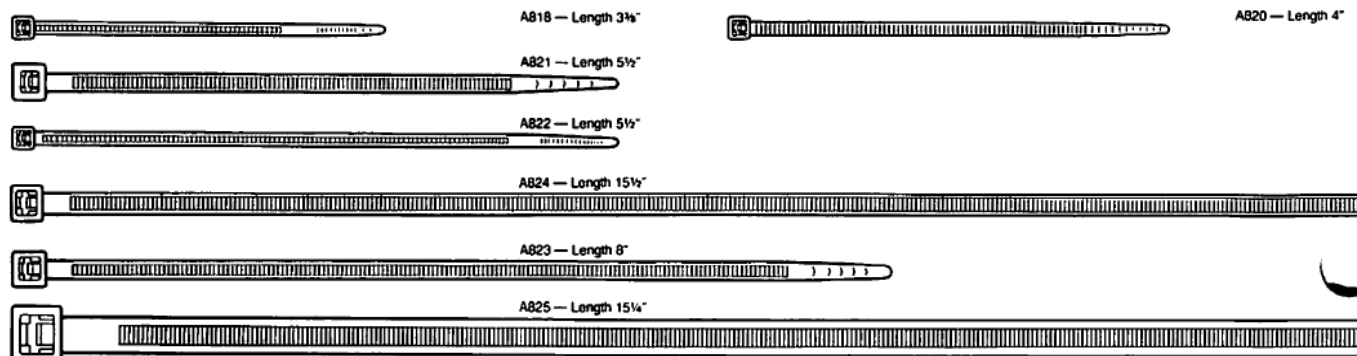
Easy-Tys are designed for continuous use from -40°F (-40°C) to +185°F (+85°C) and will withstand temperatures up to 300°F (149°C). They meet applicable Military Specifications, are QPL listed, and UL recognized under File Number E31304.

Designed to Save Labor

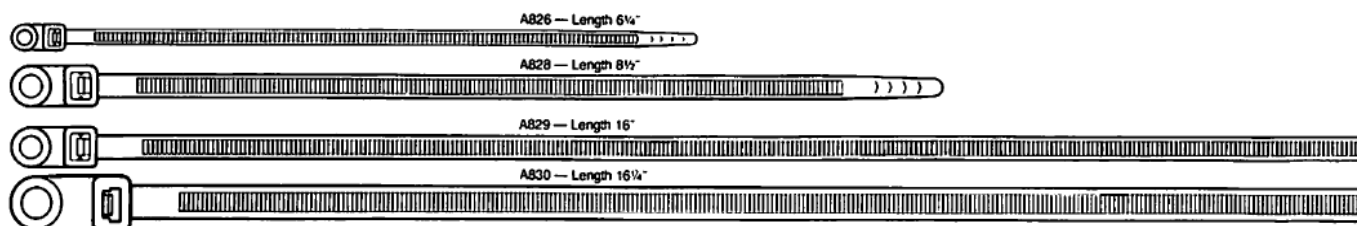
Flexible and resilient, the ties can be wrapped around a bundle quickly and easily. The smaller standard sizes have bent tails to facilitate rapid tail-to-head insertion by the operator.

Easy-Tys have several other labor-saving installation features: uniform serrations along the length of the ties, smooth edges and rounded, tapered tails. All designed to make it quick and easy to insert the tail into the unique locking head, pull through then fasten and cut with the production-quality tensioning tool.

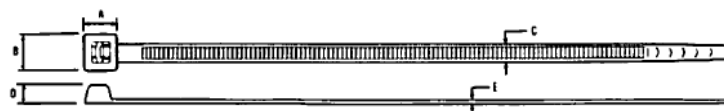
Standard Easy-Tys (standard color: natural)



Mounting Easy-Tys (standard color: natural)



Easy-Ty Dimensions



Standard Easy-Tys

Catalog Number	Measure	A	B	C	D	E	F	G	Overall Length	Maximum Cable Diameter	Min. Tensile Strength (Lbs.)
A-818	In	.160	.160	.087	.123	.038	—	—	3.375	.50	18
	mm	4.064	4.064	2.209	3.124	.965	—	—	85.725	12.70	
A-820	In	.170	.180	.098	.143	.041	—	—	4.00	.750	18
	mm	4.318	4.572	2.489	3.632	1.041	—	—	101.60	19.05	
A-821	In	.225	.237	.141	.197	.046	—	—	5.50	1.25	30
	mm	5.715	6.019	3.581	5.004	1.168	—	—	139.70	31.75	
A-822	In	.185	.180	.098	.163	.045	—	—	5.50	1.25	18
	mm	4.699	4.572	2.489	4.140	1.143	—	—	139.70	31.75	
A-823	In	.285	.294	.184	.236	.047	—	—	8.00	1.75	50
	mm	7.239	7.467	4.674	5.994	1.194	—	—	203.20	44.45	
A-824	In	.285	.294	.184	.210	.053	—	—	15.50	4.00	50
	mm	7.239	7.468	4.674	5.334	1.346	—	—	393.70	101.60	
A-825	In	.265	.500	.302	.210	.053	—	—	15.50	4.00	120
	mm	6.731	12.700	7.671	5.334	1.346	—	—	393.70	101.60	

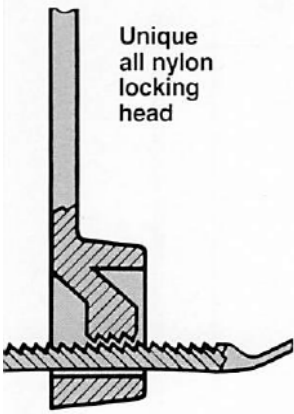


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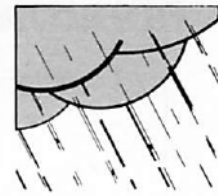
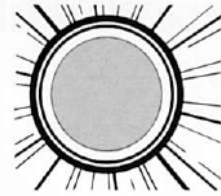


Unique all nylon locking head

H22A Tensioning Tool



Constructed of a durable polycarbonate material, the H22A weighs only 8¾ ounces, but is rugged enough to handle all ties 18 through 50 lbs. And operators like its two-part action that tensions precisely as set, then cuts the tie flush with the head with just a short squeeze of the trigger.



Weather Resistant Tys

For those applications exposed to the outside elements, a Weather Resistant Ty is available. Black in color, all Standard Easy-Tys and Mounting Easy-Tys shown below are available as Weather Resistant Tys. To order, simply add a -9 to the appropriate part number.

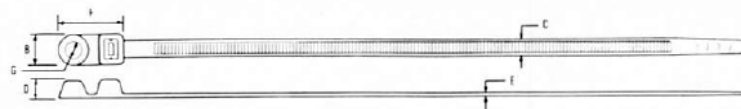
Part No.	Bundle Diameter Min-Max	Minimum Tensile Strength**	Length		Tool Tension Setting	Applicable Military Specification Number		
			In	mm				
A-818	1/16"-1/2"	18 lb.	3.375	85.725	1-2	(MIL SPEC Pending)		
A-820	1/16"-3/4"	18 lb.	4.00	101.60	1-2	MS17821-4	MS18034-4	MS3367-4
A-821	1/16"-1 1/4"	30 lb.	5.50	139.70	2-3		MS18034-5	MS3367-5
A-822	1/16"-1 1/4"	18 lb.	5.50	139.70	1-2			
A-823	1/16"-1 3/4"	50 lb.	8.00	203.20	3-4	MS17821-1	MS18034-1	MS3367-1
A-824	1/16"-4"	50 lb.	15.50	393.70	3-4	MS17821-2	MS18034-2	MS3367-2
A-825	1/16"-4"	120 lb.	15.250	387.35		MS17821-3	MS18034-3	MS3367-3

** After conditioning at 49°C with 20% relative humidity for 24 hours prior to tensile test.



Part No.	Bundle Diameter Min-Max	Minimum Tensile Strength**	Length		Mounting Hole Size	Tool Tension Setting
			In	mm		
A-826	1/16"-1 1/4"	30 lb.	6.25	158.75	#8	2-3
A-828	1/16"-1 3/4"	50 lb.	8.50	215.90	#10	3-4
A-829	1/16"-4"	50 lb.	16.00	406.40	#10	3-4
A-830	3/16"-4"	120 lb.	16.25	412.75	#14	

** After conditioning at 49°C with 20% relative humidity for 24 hours prior to tensile test.



Mounting Easy-Tys

Catalog Number	Measure	A	B	C	D	E	F	G	Overall Length	Maximum Cable Diameter	Min. Tensile Strength (Lbs.)
A-826	In	—	.285	.142	.198	.046	.534	.170	6.25	1.25	30
	mm	—	7.239	3.607	5.029	1.168	13.563	4.318	158.75	31.75	
A-828	In	—	.343	.183	.236	.046	.774	.208	8.50	1.75	50
	mm	—	8.712	4.648	5.994	1.168	19.659	5.283	215.90	44.45	
A-829	In	—	.348	.187	.239	.055	.788	.212	16.00	4.0	50
	mm	—	8.839	4.750	6.070	1.397	20.015	5.384	406.40	101.60	
A-830	In	—	.520	.307	.323	.080	1.081	.256	16.25	4.0	120
	mm	—	13.208	7.797	8.204	2.032	27.457	6.502	412.75	101.60	



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SECTION 14

Flexible Polyolefin Heat Shrinkable Tubing

Whether you're insulating a single electrical component or an entire wiring harness, Hollingsworth has the right heat shrinkable tubing for your needs. Flexible, 135°C black polyolefin tubing has the capacity to shrink as much as 50% in diameter depending upon the duration and intensity of the heat applied.

Each of the tubings listed below has excellent electrical, physical and chemical properties that make them ideal for a wide variety of industrial and military applications. They meet specifications MIL-I-23053/5A, AMS 3636, and are U.L. rated 600 volts @ 125°C. U.L. File No. E76146. Select the proper size for your application from the information listed below. Or contact your Hollingsworth sales representative for additional information on heat shrinkable tubing and other wiring or wire termination needs.

STANDARD COLOR:

Black

SHRINK RATIO:

2:1

MINIMUM SHRINK TEMPERATURE:

-55°C (-67°F)

CONTINUOUS OPERATING TEMPERATURE:

121°C (250°F)

TO 135°C (275°F)

MEETS SPECIFICATIONS:

MIL-I-23053C/5A

UL 224 UL FILE NO. E76146

AMS 3636



Part Number	Expanded Size		Recovered Size		Expanded I.D. (Minimum)		Recovered I.D. (Maximum)		Nom. Recovered Wall Thickness		Standard Spool Lengths*
	(I.D.)	reduces to	(I.D.)		In.	mm	In.	mm	In.	mm	
A72400-9	1/16"	reduces to	1/32"		.063	1.60	.031	0.79	.017	0.43	1000 FOOT SPOOLS
A72410-9	3/32"	reduces to	3/64"		.093	2.36	.046	1.19	.020	0.51	
A72420-9	1/8"	reduces to	1/16"		.125	3.18	.062	1.57	.020	0.51	
A72430-9	3/16"	reduces to	3/32"		.187	4.75	.093	2.36	.020	0.51	
A72440-9	1/4"	reduces to	1/8"		.250	6.35	.125	3.18	.025	0.64	500 FOOT SPOOLS
A72450-9	3/8"	reduces to	3/16"		.375	9.53	.187	4.75	.025	0.64	200 FOOT SPOOLS
A72460-9	1/2"	reduces to	1/4"		.500	12.70	.250	6.35	.025	0.64	
A72470-9	3/4"	reduces to	3/8"		.750	19.05	.375	9.53	.030	0.76	
A72480-9	1"	reduces to	1/2"		1.00	25.40	.500	12.70	.035	0.89	
A72490-9	1 1/2"	reduces to	3/4"		1.50	38.10	.750	19.05	.040	1.02	100 FOOT SPOOLS
A72500-9	2"	reduces to	1"		2.00	50.80	1.00	25.40	.045	1.14	

*Please order according to Standard spool lengths

DO NOT STORE HOLLINGSWORTH POLYOLEFIN HEAT SHRINKABLE TUBING AT TEMPERATURES ABOVE 150°F.



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SECTION 15

Part Number to Page Number Reference

Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number		
1-OFL	82	H133	55	P1310	48	XR1896SN	6	H2609	56	R3039BN	49	R3493B	49	B4072B	21
1-ONL	62	H134	55	HDR1338B	10	XR1896S	6	H2610	56	R3039B	49	R3494B	49	B4072	21
2-OFL	62	H135	55	HDR1338	10	XR1901GSN	11	H2611	56	R3040BF	49	R3495B	49	R4103B	6
H2A	63	B0200B	49	HDR1339B	10	XR1901GS	11	H2612	56	R3040BN	49	R3496B	49	R4103SB	6
H3A	63	B0210BF	49	HDR1339	10	XR1901SN	11.58	H2613	56	R3040B	49	R3498B	49.59	R4103S	6
H4A	63	B0210BN	49	HDR1350BF	10	XR1901S	11.58	H2614	56	R3041BF	49	R3500B	49.59	R4103	6
H6E	63	B0210B	49	HDR1351BF	10	XR1902GSN	11	H2615	56	R3041BN	49	R3501B	49	R4104B	6
H7B	64	H270	69	XHDR1356N	10	XR1902GS	11	H2616	56	R3041B	49	R3502BF	49	R4104SB	6
H8A	64	B0300	49	XHDR1356	10	XR1902SN	11.59	H2617	56	R3042BF	49	R3502BN	49	R4104S	6
H9	64	B0310F	49	XHDR1357N	10	XR1902S	11.59	H2618	56	R3042BN	49	R3502B	49	R4104	6
H12	65	B0310N	49	XHDR1357	10	XR1903GSN	11	H2621	56	R3042B	49	R3503BF	49	R4105B	6
HDR12B	14	B0310	49	HDR1361B	15	XR1903GS	11	H2622	56	R3043BF	49	R3503BN	49	R4105SB	6
HDR12	14	B0401	49	XHDR1361	15	XR1903SN	11.59	H2623	56	R3043BN	49	R3503B	49	R4105S	6
H13	65	B0411F	49	HDR1362B	15	XR1903S	11.59	H2624	56	R3043B	49	R3504BF	49	R4105	6
H15	64	B0411N	49	HDR1362	15	XR1906SN	11.59	H2625	56	R3044BF	49	R3504BN	49.59	R4110B	6
H16HT	65	B0411	49	HDR1363B	15	XR1906S	11.59	H2626	56	R3044BN	49	R3504B	49.59	R4110SB	6
H18	64	B0500	49	HDR1363	15	XR1907SN	11.58	H2627	56	R3044B	49	R4001BF	50	R4110S	6
H19	69	B0600	49	HDR1374BF	15	XR1907S	11.58	H2628	56	R3220B	17.59	R4001B	50.58	R4110	6
H20	66	B0700	49	HDR1375BF	15	XR1908SN	11.58	H2629	56	R3220	17	R4001B	50.58	R4111B	6
H43	65	B0800	49	HDR1376BF	15	XR1908S	11.58	H2631	56	R3222B	17	R4002BF	50	R4111SB	6
HDR21B	14	A818	72.73	XHDR1380N	15	B1920B	21	H2632	56	R3222	17	R4002BN	50.58	R4111S	6
HDR21	14	A8189	72.73	XHDR1380	15	B1921BN	21	H2633	56	R3223B	17.59	R4002B	50.58	R4111	6
HDR22B	14	A820	72.73	XHDR1381N	15	B1921B	21	H2634	56	R3223	17	R4003BF	50	R4112B	6
H22A	73	A8209	72.73	XHDR1381	15	B1922B	21	H2635	56	R3301B	11	R4003BN	50.58	R4112SB	6
HDR22	14	A821	72.73	XHDR1382N	15	XS2053SN	8	H2636	56	R3301SB	11	R4003B	50.58	R4112S	6
HDR23B	14	A8219	72.73	XHDR1382	15	XS2053S	8	H2641	56	R3301S	11	R4004BF	50	R4112	6
HDR23	14	A822	72.73	P1401	48	XS2054SN	8	H2642	56	R3301	11	R4004BN	50.58	R4113B	6
HDR24B	14	A8229	72.73	P1411F	48	XS2054S	8	H2643	56	R3311F	11	R4004B	50.58	R4113SB	6
HDR24	14	A823	72.73	P1411N	48	XS2055SN	10	H2644	56	XR3311SF	11	R4005BF	50	R4113S	6
HDR25B	14	A8239	72.73	P1411	48	XS2055S	10	H2645	56	XR3321SN	11	R4005BN	50	R4113	6
HDR25	14	A824	72.73	P1500	48	XS2059SN	10	H2646	56	XR3321S	11	R4005B	50	R4114B	6
HDR27BF	14	A8249	72.73	P1600	48	XS2059S	10	H2647	56	R3420	47	R4007BF	50	R4114SB	6
HDR27F	14	A825	72.73	P1700	48	XS2060SN	10	H2648	56	R3421	47	R4007BN	50	R4114S	6
H28	67	A8259	72.73	P1800	48	XS2060S	10	H2649	56	R3422	47	R4007B	50	R4114	6
H30	67	A826	72.73	B1818B	21	B2151B	21	H2650	56	R3423	47	R4008BF	50	R4115B	6
HDR31BF	14	A8269	72.73	B1818	21	B2151	21	H2651	56	R3424	47	R4008BN	50	R4115SB	6
HDR31F	14	A828	72.73	B1819B	21	XS2404SN	8	H2652	56	R3425	47	R4008B	50	R4115S	6
HDR32BF	14	A8289	72.73	B1819	21	XS2404S	8	H2653	56	R3426	47	R4010BF	50	R4115	6
HDR32F	14	A829	72.73	B1841BN	22.60	XR2441SN	11.59	H2654	56	R3428B	44	R4010BN	50	S4116B	8
HDR33BF	14	A8299	72.73	B1842	47	XR2441S	11.59	H2655	56	R3429B	44	R4010B	50	S4116SB	8
HDR33F	14	A830	72.73	B1843B	46	XR2442SN	11.58	H2656	56	R3430B	44	P4019	23	S4116S	8
HDR34BF	14	A8309	72.73	B1845	47	XR2442S	11.58	H2661	56	R3431B	44	P4020	23	S4116	8
HDR34F	14	P1100	48	B1846B	46	XH2454SN	9	H2662	56	R3432B	44	B4040B	22	S4117B	8
HDR35BF	14	P1110F	48	B1852	47	XH2454S	9	H2663	56	R3433B	44	B4041B	22	S4117SB	8
HDR35F	14	P1110N	48	B1853B	46	XH2456SN	9	H2664	56	R3444B	49	B4042B	22	S4117S	8
H35	66	P1110	48	XR1856SN	6	XH2456S	9	H2665	56	R3445B	49	B4043B	22	S4117	8
H38	67	S01120S	30	XR1856S	6	XH2457SN	9	H2666	56	R3446B	19	B4044BF	22	S4118B	8
H40	67	S01121SF	30	XR1857SN	6	XH2457S	9	H2667	56	R3446	19	B4044BN	22	S4118SB	8
41B	26	XS01122SN	30	XR1857S	6	XS2498SN	9	H2668	56	R3447B	19	B4044B	22	S4118S	8
43B	26	XS01122S	30	XR1858SN	6	XS2498S	9	H2669	56	R3447	19	B4045BF	22	S4118	8
H45	68	S01125SF	32	XR1858S	6	XS2499SN	9	H2670	56	R3448B	19	B4045BN	22	S4119	11.61
H46	66	S01126S	30	XR1859SN	6	XS2499S	9	H2671	56	R3448	19	B4045B	22	S4119SB	11
H47	66	S01130S	30	XR1859S	6	XS2508N	19	H2672	56	R3452B	17	B4046BF	22	S4119S	11
XHDR61N	14	S01131SF	30	B1868BN	22.60	XS2508	19	R2994B	17	R3452	17	B4046BN	22	S4119	11
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XHDR62	14	S01135SF	32	B1872BN	22.60	XSF2510N	19	S2995	16	R3454B	17	B4047BN	22	R4120S	11
XHDR63N	14	S01136S	30	B1873B	22	XSF2510	19	R2996B	49	R3454	17	B4047B	22	R4120	11
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XHDR64	14	XS01139S	32	B1877B	22	XSF2560SN	9	R3027B	49	R3456B	17	B4051B	22	R4121GSB	11
XHDR65N	14	S01144S	32	B1878B	22	XSF2560S	9	R3028BF	49	R3456	17	B4051	22	R4121GS	11
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82	62	P1210N	48	XR1881S	6	XS2587	16	R3031BF	49	R3459	17.59	B4067	21	R4122GB	11
83	62	P1210	48	XR1882SN	6	XS2588N	16	R3031BN	49	R3460B	49	B4068BN	21	R4122GSB	11
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WP13015SF	57	SF20751S	9	H21700F	9	XBS25873N	18	SF34124B	16	R54208	5	R71010N	41.60	S072978SF	35
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XWP13016S	57	SF20752F	9	SF22451B	19	XBS25882N	18	SF34128B	16	R61002GB	11	R71011N	41.60	X072984	35
XWP13017SN	57	SF20752SF	9	SF22451	19	XBS25882	18	BS34782B	18	R61002GSB	11	R71011	41.60	X072985SN	35
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WP13020B	57	SF20753SF	9	H22452	19	XBS25883	18	BS34783B	18	R61002G	11	R71012	41.60	X072986SN	35
WP13020	57	SF20754F	9	SF22453B	19	XBS25892N	18	BS34783	18	R61005GF	11	R71013N	41.60	X072986S	35
WP13022F	57	SF20754SF	9	SF22453	19	XBS25892	18	BS34792B	18	R61005GSF	11	R71013	41.60	S073159S	35
XWP13023SN	57	SS20815F	17	H22454B	19	XBS25893N	18	BS34792	18	XR61006GN	11	R71014N	41.60	S073161S	35
XWP13023	57	SS20828B	17	H22454	19	XBS25893	18	BS34793B	18	XR61006GS	11	R71014	41.60	S073163SF	35
OR14120B	15	SS20828	17	H22455B	19	R26201	5	BS34793	18	R64641B	50.59	R71015N	41.60	X073165S	35
OR14121B	15	SS20829B	17	H22455	19	R26202	5	BS41162	8	R64642B	50.59	R71015	41.60	S073170S	35
OR14122B	15	SS20829	17	SF22456B	19	R26203	5	BS41162SB	8	R64643B	50.59	R71016N	41.60	S073172S	35
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R14124B	16	SS20830	17	SF22465B	7	R26205	5	BS41162S	8	R64645B	50	R71017N	41.60	S073175S	35
R14126B	16	SS20831B	17	SS22465	7	R26206	5	BS41163B	8	R64651B	50	R71017	41.60	S073181	35
R14128B	16	SS20831	17	SS22466B	7	R26207	5	BS41163SB	8	R64654B	50.59	R71019SN	42.60	S073183	35
OR14130BF	15	SS20832F	17	SS22466	7	R26208	5	BS41163S	8	R64655B	50	R71019S	42.60	S073185F	35
OR14131BF	15	SS20833F	17	SS22467	7	R26209	5	BS41163	8	R64661B	45	R71092SN	42.60	X073187	35
OR14132BF	15	SS20834F	17	SS22467	7	R26211N	5	BS41172B	8	R64662B	45	R71092SN	42.60	S074702S	29
OR14133BF	15	XSS20836N	17	SS22468B	7	R26212N	5	BS41172SB	8	R64663B	45	R71093SN	42.60	S074704S	29
H20256B	14	XSS20836	17	SS22468	7	R26213N	5	BS41172S	8	S070572S	32	R71093S	42.60	S074709S	29
H20256SB	14	XSS20837N	17	SS22469B	7	R26214N	5	BS41172	8	S070573S	32	R71094SN	42.60	S074711S	29
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H20256	14	XSS20838N	17	SS22470B	12	R26216N	5	BS41182SB	8	S070577S	32	R71095SN	42.60	S074718S	29
H20257B	14	XSS20838	17	SS22470	12	R26217N	5	BS41182S	8	R70805N	40.60	R71095S	42.60	S074723S	29
H20257SB	14	SF20855B	13	SS22471B	12	R26218N	5	BS41182	8	R70805	40.60	R71096SN	42.60	S074725S	29
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H20258SB	14	SF20856B	13	SS22473B	12	XR26242N	5	BS41183	8	R70807	40.60	R71098SN	42.60	S074767S	29
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H20262F	14	SF20856	13	SS22474	18	XR26243	5	BS41270B	13	R70809N	40.60	R71100S	42.60	S074779S	29
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H20263F	14	SF20857SB	13	SS22475	18	XR26244	5	BS41270S	13	R70810N	40.60	R71101S	42.60	S074814SFN	29
H20263SF	14	SF20857S	13	SS22476B	18	XR26245N	5	BS41270	13	R70810	40.60	R71102SN	42.60	S074816SFN	29
H20264F	14	SF20857	13	SS22476	18	XR26245	5	BS41272B	13	R70811N	40.60	R71102S	42.60	S074821SFN	29
H20264SF	14	SF20858F	13	SS22477B	18	XR26246N	5	BS41272SB	13	R70811	40.60	R71103SN	42.60	S074823SFN	29
H20265F	19	SF20858SF	13	SS22477	18	XR26246	5	BS41272S	13	R70812N	40.60	R71103S	42.60	S074828SFN	29
H20266F	19	SF20859F	13	SS22482B	7	XR26247N	5	BS41272	13	R70812	40.60	R71104SN	42.60	S074830SFN	29
H20267F	19	SF20859SF	13	SS22482	7	XR26247	5	BS41273B	13	R70813N	40.60	R71104S	42.60	S074835SFN	29
SF20268F	19	SF20860F	13	SS22492F	7	XR26248N	5	BS41273SB	13	R70813	40.60	R71105SN	42.60	S074837SFN	29
SF20269F	19	SF20860SF	13	SS22495F	7	XR26248	5	BS41273S	13	R70814N	40.60	R71105S	42.60	X074898SN	29
SF20270F	19	XSF20861SN	13	SS22496F	7	XR26249N	5	BS41273S	13	R70814	40.60	R71106SN	42.60	X074898S	29
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