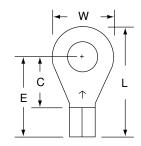
# **3M**Specialty Terminals

11-2S thru 13-500 Ring Tongue, Non-Insulated, Butted Seam



## **Data Sheet**

Product Number	Wire Range (AWG)	Stud Size	w	С	L	E	Thickness	Barrel Length	Barrel I.D.
11-2S	22-18	2	0.25	0.23	0.60	0.48	0.030	0.25	0.070
11-4S	22-18	4	0.25	0.22	0.60	0.47	0.030	0.25	0.070
11-6S	22-18	6	0.25	0.22	0.60	0.47	0.030	0.25	0.070
L-11-6	22-18	6	0.31	0.33	0.74	0.58	0.030	0.25	0.070
11-8S	22-18	8	0.25	0.22	0.60	0.47	0.030	0.25	0.070
11-8	22-18	8	0.33	0.29	0.70	0.54	0.030	0.25	0.070
L-11-8	22-18	8	0.31	0.33	0.74	0.58	0.030	0.25	0.070
11-10	22-18	10	0.33	0.29	0.70	0.54	0.030	0.25	0.070
L-11-10	22-18	10	0.31	0.33	0.74	0.58	0.030	0.25	0.070
11-14S	22-18	1/4	0.47	0.40	0.88	0.65	0.030	0.25	0.070
11-56S	22-18	5⁄16	0.47	0.40	0.88	0.65	0.030	0.25	0.070
11-38	22-18	3/8	0.56	0.40	0.93	0.65	0.030	0.25	0.070
12-2S	16-14	2	0.25	0.22	0.60	0.47	0.030	0.25	0.090
12-4S	16-14	4	0.25	0.22	0.60	0.47	0.030	0.25	0.090
12-6S	16-14	6	0.25	0.22	0.60	0.47	0.030	0.25	0.090
12-6	16-14	6	0.33	0.29	0.70	0.54	0.030	0.25	0.090
L-12-6	16-14	6	0.31	0.33	0.74	0.58	0.030	0.25	0.090
12-8S	16-14	8	0.25	0.22	0.60	0.47	0.030	0.25	0.090
12-8	16-14	8	0.33	0.29	0.70	0.54	0.030	0.25	0.090
L-12-8	16-14	8	0.31	0.33	0.74	0.58	0.030	0.25	0.090

Product Number	Wire Range (AWG)	Stud Size	w	С	L	E	Thickness	Barrel Length	Barrel I.D.
12-10	16-14	10	0.33	0.29	0.70	0.54	0.030	0.25	0.090
L-12-10	16-14	10	0.31	0.33	0.74	0.58	0.030	0.25	0.090
12-14S	16-14	1/4	0.47	0.40	0.89	0.65	0.030	0.25	0.090
12-14	16-14	1/4	0.56	0.40	0.93	0.65	0.030	0.25	0.090
12-56S	16-14	5⁄16	0.47	0.40	0.88	0.65	0.030	0.25	0.090
12-56	16-14	5⁄16	0.56	0.40	0.93	0.65	0.030	0.25	0.090
12-38	16-14	3/8	0.56	0.40	0.93	0.65	0.030	0.25	0.090
13-4S	12-10	4	0.28	0.29	0.68	0.54	0.040	0.25	0.135
13-6S	12-10	6	0.28	0.29	0.68	0.54	0.040	0.25	0.135
13-6	12-10	6	0.38	0.29	0.73	0.54	0.040	0.25	0.135
13-8S	12-10	8	0.28	0.29	0.68	0.54	0.040	0.25	0.135
13-8	12-10	8	0.38	0.29	0.73	0.54	0.040	0.25	0.135
13-10	12-10	10	0.38	0.29	0.73	0.54	0.040	0.25	0.135
13-14S	12-10	1/4	0.53	0.44	0.96	0.69	0.040	0.25	0.135
13-14	12-10	1/4	0.59	0.44	0.99	0.69	0.040	0.25	0.135
13-56S	12-10	5⁄16	0.53	0.44	0.96	0.69	0.040	0.25	0.135
13-56	12-10	5⁄16	0.59	0.44	0.99	0.69	0.040	0.25	0.135
13-38S	12-10	3/8	0.54	0.44	0.96	0.69	0.040	0.25	0.135
13-38	12-10	3/8	0.59	0.44	0.99	0.69	0.040	0.25	0.135
13-716	12-10	7/16	0.75	0.57	1.19	0.82	0.040	0.25	0.135
13-500	12-10	1/2	0.75	0.57	1.20	0.82	0.040	0.25	0.135



UNDERWRITERS LABORATORIES STANDARD NO. UL 486A 3M FILE NO. E23438



CANADIAN STANDARDS ASSOCIATION STANDARD NO. C22.2 NO. 0. 65 3M FILE NO. LR22190

## **Specifications**

Wire Size: Barrel Seam: Max. Current: Terminal Material: Terminal Plating: See Table Above Butted Same as Wire ETP Copper Tin

#### **Installation Information**

#### **AWARNING**

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

UL Listed and CSA Certified for use on stranded copper (AWG) wire only.

Strip away the end 3/8 inch of wire insulation.

Make the crimp in the proper station of a recommended 3M crimp tool: TH-440, TH-450 (scissor style), or TR-490 (ratchet style) hand tools.





Barrel Crimp (Electrical)

### **Engineering Specification**

Crimp-type terminals shall, electrically and mechnically, connect to a pre-stripped end of a stranded copper wire and have a flat tongue portion with a central opening for mounting around a screw or stud.

The terminal line shall offer tongue variations in hole (stud) size (6, 8 10, etc.) and configuration (ring, fork, block fork, flanged block fork, locking fork, etc.): and barrel variations in wire (AWG) size (22-18, 16-14, 12-10, etc.) and construction (non-insulated brazed seam, vinyl insulated butted seam, nylon insulated with insulation grip, etc.). The terminal line shall have regulatory agency coverage (UL Listing, CSA Certification). The terminal tongue shall be marked with the wire range and manufacturer's symbol ( $\uparrow$ ).

The non-insulated, butted seam ring tongue terminal shall be tin-plated, annealed copper, with the tongue having a specified stud hole (size 2 thru 1/2 in.) and a butted seam barrel with a beveled I.D. for ease of stranded wire entry, sized for a specified (AWG) wire range (22-18, 16-14, 12-10).

Non-insulated terminals shall be UL Listed and CSA Certified.

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