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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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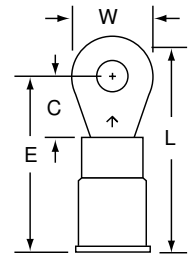




# Specialty Terminals

11-2S-NB thru 13-500-NB

Ring Tongue, Nylon Insulated with Insulation Grip



## Data Sheet

Product Number	Wire Range (AWG)	Stud Size	W	C	L	E	Thickness	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
11-2S-NB	22-18	2	0.25	0.23	0.79	0.67	0.030	0.25	0.070	0.145
11-4S-NB	22-18	4	0.25	0.22	0.79	0.66	0.030	0.25	0.070	0.145
11-6S-NB	22-18	6	0.25	0.22	0.79	0.66	0.030	0.25	0.070	0.145
L-11-6-NB	22-18	6	0.31	0.33	0.92	0.77	0.030	0.25	0.070	0.145
11-8S-NB	22-18	8	0.25	0.22	0.79	0.66	0.030	0.25	0.070	0.145
11-8-NB	22-18	8	0.33	0.29	0.89	0.73	0.030	0.25	0.070	0.145
L-11-8-NB	22-18	8	0.31	0.33	0.92	0.77	0.030	0.25	0.070	0.145
11-10-NB	22-18	10	0.33	0.29	0.89	0.73	0.030	0.25	0.070	0.145
L-11-10-NB	22-18	10	0.31	0.33	0.92	0.77	0.030	0.25	0.070	0.145
11-14S-NB	22-18	1/4	0.47	0.40	1.07	0.84	0.030	0.25	0.070	0.145
11-56S-NB	22-18	5/16	0.47	0.40	1.07	0.84	0.030	0.25	0.070	0.145
11-38-NB	22-18	3/8	0.56	0.40	1.12	0.84	0.030	0.25	0.070	0.145
12-2S-NB	16-14	2	0.25	0.22	0.81	0.68	0.030	0.25	0.090	0.170
12-4S-NB	16-14	4	0.25	0.22	0.81	0.68	0.030	0.25	0.090	0.170
12-6S-NB	16-14	6	0.25	0.22	0.81	0.68	0.030	0.25	0.090	0.170
12-6-NB	16-14	6	0.33	0.29	0.91	0.75	0.030	0.25	0.090	0.170
L-12-6-NB	16-14	6	0.31	0.33	0.94	0.79	0.030	0.25	0.090	0.170
12-8S-NB	16-14	8	0.25	0.22	0.81	0.68	0.030	0.25	0.090	0.170
12-8-NB	16-14	8	0.33	0.29	0.91	0.75	0.030	0.25	0.090	0.170
L-12-8-NB	16-14	8	0.31	0.33	0.94	0.79	0.030	0.25	0.090	0.170

(continued on next page)

Product Number	Wire Range (AWG)	Stud Size	W	C	L	E	Thickness	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
12-10-NB	16-14	10	0.33	0.29	0.89	0.75	0.030	0.25	0.090	0.170
L-12-10-NB	16-14	10	0.31	0.33	0.92	0.79	0.030	0.25	0.090	0.170
12-14S-NB	16-14	¼	0.47	0.40	1.09	0.86	0.030	0.25	0.090	0.170
12-14-NB	16-14	¼	0.56	0.40	1.14	0.86	0.030	0.25	0.090	0.170
12-56S-NB	16-14	5/16	0.47	0.40	1.09	0.86	0.030	0.25	0.090	0.170
12-56-NB	16-14	5/16	0.56	0.40	1.14	0.86	0.030	0.25	0.090	0.170
12-38-NB	16-14	¾	0.56	0.40	1.14	0.86	0.030	0.25	0.090	0.170
13-4S-NB	12-10	4	0.28	0.29	0.98	0.84	0.040	0.25	0.135	0.250
13-6S-NB	12-10	6	0.28	0.29	0.98	0.84	0.040	0.25	0.135	0.250
13-6-NB	12-10	6	0.38	0.29	1.03	0.84	0.040	0.25	0.135	0.250
13-8S-NB	12-10	8	0.28	0.29	0.98	0.84	0.040	0.25	0.135	0.250
13-8-NB	12-10	8	0.38	0.29	1.03	0.84	0.040	0.25	0.135	0.250
13-10-NB	12-10	10	0.38	0.29	1.03	0.84	0.040	0.25	0.135	0.250
13-14S-NB	12-10	¼	0.53	0.44	1.26	0.99	0.040	0.25	0.135	0.250
13-14-NB	12-10	¼	0.59	0.44	1.29	0.99	0.040	0.25	0.135	0.250
13-56S-NB	12-10	5/16	0.53	0.44	1.26	0.99	0.040	0.25	0.135	0.250
13-56-NB	12-10	5/16	0.59	0.44	1.29	0.99	0.040	0.25	0.135	0.250
13-38S-NB	12-10	¾	0.54	0.44	1.26	0.99	0.040	0.25	0.135	0.250
13-38-NB	12-10	¾	0.59	0.44	1.29	0.99	0.040	0.25	0.135	0.250
13-716-NB	12-10	7/16	0.75	0.57	1.49	1.12	0.040	0.25	0.135	0.250
13-500-NB	12-10	½	0.75	0.57	1.50	1.12	0.040	0.25	0.135	0.250



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. Voltage Rating:

Max. Temperature Rating:  
Max. Current:  
Insulator Material:  
Terminal Material:  
Insulation Grip Material:  
Terminal Plating:

See Table Above  
Butted with Insulation Grip  
600 V Building Wire  
1000 V Signs, Fixtures  
and Luminaires  
221°F (105°C)  
Same as Wire  
Nylon  
ETP Copper  
Brass  
Tin

## Installation Information

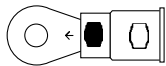
### **WARNING**


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-482, TR-490 (ratchet style) hand tools.



 Barrel Crimp (Electrical)

 Insulation Support Crimp (Mechanical)

## Engineering Specification

Crimp-type terminals shall, electrically and mechanically, 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 (↑).

The nylon-insulated, ring tongue terminal with insulation grip shall be tin-plated, annealed copper, with the tongue having a specified stud hole (size 4 thru 1/2 in.) and a butted seam barrel with a tin plated brass, funnel entry insulation grip, covered by a molded nylon sleeve, color coded and sized for a specified (AWG) wire range (22-18, 16-14, 12-10).

Insulated terminals shall be UL Listed and CSA Certified for 600 Volts maximum building wire: 1000 Volts maximum in signs, fixtures and luminaries and have a maximum operating temperature of 221°F (105°C).

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