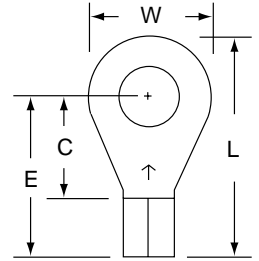




# Specialty Terminals

11-2S thru 13-500

Ring Tongue, Non-Insulated, Butted Seam



## Data Sheet

| Product Number | Wire Range (AWG) | Stud Size | W    | C    | 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    | C    | 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            | ¼               | 0.47 | 0.40 | 0.89 | 0.65 | 0.030     | 0.25          | 0.090       |
| 12-14          | 16-14            | ¼               | 0.56 | 0.40 | 0.93 | 0.65 | 0.030     | 0.25          | 0.090       |
| 12-56S         | 16-14            | ⅝ <sub>16</sub> | 0.47 | 0.40 | 0.88 | 0.65 | 0.030     | 0.25          | 0.090       |
| 12-56          | 16-14            | ⅝ <sub>16</sub> | 0.56 | 0.40 | 0.93 | 0.65 | 0.030     | 0.25          | 0.090       |
| 12-38          | 16-14            | ⅜               | 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            | ¼               | 0.53 | 0.44 | 0.96 | 0.69 | 0.040     | 0.25          | 0.135       |
| 13-14          | 12-10            | ¼               | 0.59 | 0.44 | 0.99 | 0.69 | 0.040     | 0.25          | 0.135       |
| 13-56S         | 12-10            | ⅝ <sub>16</sub> | 0.53 | 0.44 | 0.96 | 0.69 | 0.040     | 0.25          | 0.135       |
| 13-56          | 12-10            | ⅝ <sub>16</sub> | 0.59 | 0.44 | 0.99 | 0.69 | 0.040     | 0.25          | 0.135       |
| 13-38S         | 12-10            | ⅜               | 0.54 | 0.44 | 0.96 | 0.69 | 0.040     | 0.25          | 0.135       |
| 13-38          | 12-10            | ⅜               | 0.59 | 0.44 | 0.99 | 0.69 | 0.040     | 0.25          | 0.135       |
| 13-716         | 12-10            | ⅞ <sub>16</sub> | 0.75 | 0.57 | 1.19 | 0.82 | 0.040     | 0.25          | 0.135       |
| 13-500         | 12-10            | ½               | 0.75 | 0.57 | 1.20 | 0.82 | 0.040     | 0.25          | 0.135       |



UNDERWRITERS  
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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

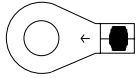
### **WARNING**


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-490 (ratchet style) hand tools.



 Barrel Crimp (Electrical)

## 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 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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