

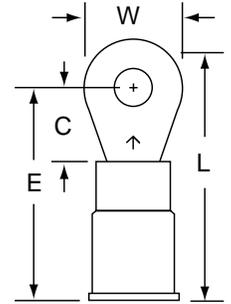


Scotchlok™ Terminals

MNG18-4R/S thru MNG10-38R/S

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 |
|----------------|------------------|-----------|------|------|------|------|-----------|---------------|-------------|-----------------------------|
| MNG18-4R/S | 22-18 | 4 | 0.25 | 0.22 | 0.79 | 0.66 | 0.030 | 0.25 | 0.070 | 0.145 |
| MNG18-6R/S | 22-18 | 6 | 0.25 | 0.22 | 0.79 | 0.66 | 0.030 | 0.25 | 0.070 | 0.145 |
| MNG18-8R/L | 22-18 | 8 | 0.31 | 0.33 | 0.92 | 0.77 | 0.030 | 0.25 | 0.070 | 0.145 |
| MNG18-10R/L | 22-18 | 10 | 0.31 | 0.33 | 0.92 | 0.77 | 0.030 | 0.25 | 0.070 | 0.145 |
| MNG18-14R/S | 22-18 | ¼ | 0.47 | 0.40 | 1.07 | 0.84 | 0.030 | 0.25 | 0.070 | 0.145 |
| MNG18-516R/S | 22-18 | 5/16 | 0.47 | 0.40 | 1.07 | 0.84 | 0.030 | 0.25 | 0.070 | 0.145 |
| MNG18-38R | 22-18 | 3/8 | 0.56 | 0.40 | 1.12 | 0.84 | 0.030 | 0.25 | 0.070 | 0.145 |
| MNG14-4R/S | 16-14 | 4 | 0.25 | 0.22 | 0.81 | 0.68 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-6R/S | 16-14 | 6 | 0.25 | 0.22 | 0.81 | 0.68 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-8R/S | 16-14 | 8 | 0.25 | 0.22 | 0.81 | 0.68 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-8R | 16-14 | 8 | 0.33 | 0.29 | 0.91 | 0.75 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-8R/L | 16-14 | 8 | 0.31 | 0.33 | 0.94 | 0.79 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-10R | 16-14 | 10 | 0.33 | 0.29 | 0.91 | 0.75 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-10R/L | 16-14 | 10 | 0.31 | 0.33 | 0.94 | 0.79 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-14R/S | 16-14 | ¼ | 0.47 | 0.40 | 1.09 | 0.86 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-516R/S | 16-14 | 5/16 | 0.47 | 0.40 | 1.09 | 0.86 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG14-38R | 16-14 | 3/8 | 0.56 | 0.40 | 1.14 | 0.86 | 0.030 | 0.25 | 0.090 | 0.170 |
| MNG10-4R/S | 12-10 | 4 | 0.28 | 0.29 | 0.98 | 0.84 | 0.040 | 0.25 | 0.135 | 0.250 |
| MNG10-6R | 12-10 | 6 | 0.38 | 0.29 | 1.03 | 0.84 | 0.040 | 0.25 | 0.135 | 0.250 |
| MNG10-8R | 12-10 | 8 | 0.38 | 0.29 | 1.03 | 0.84 | 0.040 | 0.25 | 0.135 | 0.250 |
| MNG10-10R | 12-10 | 10 | 0.38 | 0.29 | 1.03 | 0.84 | 0.040 | 0.25 | 0.135 | 0.250 |
| MNG10-14R/S | 12-10 | ¼ | 0.53 | 0.44 | 1.26 | 0.99 | 0.040 | 0.25 | 0.135 | 0.250 |
| MNG10-516R/S | 12-10 | 5/16 | 0.53 | 0.44 | 1.26 | 0.99 | 0.040 | 0.25 | 0.135 | 0.250 |
| MNG10-38R/S | 12-10 | 3/8 | 0.54 | 0.44 | 1.26 | 0.99 | 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: | See Table Above |
| Barrel Seam: | Butted with Insulation Grip |
| Max. Voltage Rating: | 600 V Building Wire 1000 V Signs, Fixtures and Luminaires |
| Max. Temperature Rating: | 221°F (105°C) |
| Max. Current: | Same as Wire |
| Insulator Material: | Nylon |
| Terminal Material: | ETP Copper |
| Terminal Plating: | Tin |

Installation Information

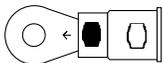
WARNING

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)

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Electrical Products Division

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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 3/8 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 luminaires and have a maximum operating temperature of 221°F (105°C).

Mouser Electronics

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[MNG18-10R/LK \(BULK\)](#) [MNG14-8R/LX](#) [MNG14-8R/SX](#) [MNG14-8RX](#) [MNG14-10R/LX](#)