# imall

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# **3M** Scotchlok<sup>™</sup> Terminals

## MNG18-4FL thru MNG10-10FL Locking Fork, Nylon Insulated with Insulation Grip

## Data Sheet

Product Number	Wire Range (AWG)	Stud Size	Max Lock Width	w	с	L	E	Thickness	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
MNG18-4FL	22-18	4	0.27	0.25	0.25	0.87	0.69	0.030	0.25	0.070	0.145
MNG18-6FL	22-18	6	0.27	0.25	0.25	0.87	0.69	0.030	025	0.070	0.145
MNG18-8FL	22-18	8	0.34	0.30	0.25	0.87	0.69	0.030	0.25	0.070	0.145
MNG18-10FL	22-18	10	0.35	0.32	0.25	0.87	0.69	0.030	0.25	0.070	0.145
MNG14-4FL	16-14	4	0.27	0.25	0.25	0.89	0.71	0.030	0.25	0.090	0.170
MNG14-6FL	16-14	6	0.27	0.24	0.25	0.89	0.71	0.030	0.25	0.090	0.170
MNG14-8FL	16-14	8	0.34	0.30	0.25	0.89	0.71	0.030	0.25	0.090	0.170
MNG14-10FL	16-14	10	0.35	0.32	0.25	0.89	0.71	0.030	0.25	0.090	0.170
MNG14-14FL	16-14	1/4	0.48	0.43	0.40	1.11	0.86	0.030	0.25	0.090	0.170
MNG10-6FL	12-10	6	0.30	0.28	0.28	1.03	0.83	0.040	0.25	0.135	0.250
MNG10-8FL	12-10	8	0.35	0.32	0.28	1.03	0.83	0.040	0.25	0.135	0.250
MNG10-10FL	12-10	10	0.36	0.32	0.28	1.03	0.83	0.040	0.25	0.135	0.250
MNG10-14FL	12-10	1/4	0.48	0.43	0.44	1.24	0.99	0.040	0.25	0.135	0.250



LISTED 314R UNDERWRITERS LABORATORIES STANDARD NO. UL 486A 3M FILE NO. E23438

#### Specifications

Wire Size: Barrel Seam: Max. Voltage Rating:

Max. Operating Temp.: Max. Current: Insulator Material: Terminal Material: Insulation Grip Material: Plating:

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

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**

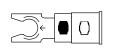
#### **WARNING**

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.

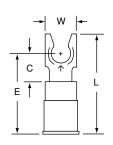
Strip away the end 3/8 inch of wire insulation.

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 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 ( $\uparrow$ ).

The nylon-insulated, locking fork terminal with insulation grip shall be tin-plated, annealed copper, with the tongue having a specified stud slot (size 4 thru 10) 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  $221^{\circ}$ F (105°C).

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#### **IMPORTANT NOTICE**

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

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