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Printer-friendly format 3M[™] Scotchlok[™] Fully Nylon Insulated w/Insulation Grip Male Disconnect MNG18-250DMIX, 22-18 AWG

This terminal has a wire range of 22-18 AWG and has case quantities of 500 per case.

[click to enlarge]

GTIN(UPC/EAN): 0 00 54007 11711 7

3M Id: 80-6100-9115-1

Additional Information

The disconnects are attached to mating part by tongue of female part slipping over male tab. The use of dents and rolled edges on female part provides excellent holding force while allowing easy and quick disconnect.

Learn More . . .

Packaging Data

Scotchlok Terminals MNG-250DMI - Data Sheet (PDF 23.9 K)

Scotchlok Terminals MNG18-250DM, MNG14-250DM, MNG10-250DM - Data Sheet (PDF 19.4 K)

<u>Terminal Stud Size Chart - Product Selection Guide (PDF 5.2 K)</u>

Please Note:

Adobe® Acrobat® Reader is required to view PDF documents.



Other Tools

- What's New
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Characteristics

| Agency Approvals | UL and CSA |
|------------------------|-----------------|
| Barrel Style | Insulation Grip |
| China RoHS - Below MCV | Yes |
| CSA File Number | LR22190 |

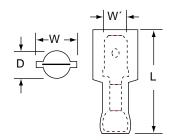
| EU RoHS Compliant | Yes |
|-----------------------------|------------------------------------|
| Fastener Orientation | Male |
| Insulation Material | Nylon |
| Pad Width | 0.250 Inch |
| Terminal Style | Fully Insulated |
| Terminal Type | Disconnect |
| UL File Number | E70512 |
| Wire Gauge Range | 18 to 22 American Wire Gauge (AWG) |



ScotchlokTM Terminals

MNG18-250DMI, MNG14-250DMI, MNG10-250DMI

Male Disconnect, Nylon Fully Insulated with Insulation Grip



Data Sheet

| Product Number | Wire Range (AWG) | Male Tab Width (W´) x Thickness | L | w | D | Barrel Length | Barrel I.D. |
|----------------|------------------------|---------------------------------------|------|------|------|------------------|----------------|
| MNG18-250DMI | 22-18 | 0.250 x 0.032 | 0.95 | 0.44 | 0.30 | 0.25 | 0.145 |
| MNG14-250DMI | 16-14 | 0.250 x 0.032 | 0.95 | 0.44 | 0.30 | 0.25 | 0.170 |
| MNG10-250DMI | 12-10 | 0.250 x 0.032 | 1.05 | 0.47 | 0.39 | 0.25 | 0.250 |



UNDERWRITERS LABORATORIES STANDARD NO. UL 310 3M FILE NO. E70512



CANADIAN STANDARDS ASSOCIATION STANDARD NO. C22.2 NO. 153 3M FILE NO. LR22190

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





Barrel Crimp (Electrical)

Insulation Crimp (Mechanical)

Specifications

Wire Size: Barrel Seam:

Maximum Voltage Rating:

Maximum Temperature Rating: Maximum Current: Insulator Material: Terminal Material:

Insulation Grip Material: Plating:

Grip 600 V Building Wire 1000 V Signs or Fixtures (Luminaires) 221°F (105°C) Same as Wire Nylon

Butted with Insulation

See Table Above

ETP Copper Brass Tin

Suitable for factory application on steel or brass tabs UL or CSA.

Suitable for field application on brass tabs, strain relief required, UL only.

Engineering Specification

Crimp-Type Male Quick Disconnect shall, electrically and mechanically connect permanently to a prestripped end of a stranded copper wire and, have a flat rectangular tongue portion for mating to a Female Quick Disconnect in a separable, reusable manner, forming a Quick Connect Wiring Connection.

The connector line shall offer tongue variations (size 0.250 x 0.032 or 0.187 x 0.020 per ANSI/NEMA DC-2) and barrel variations in wire size 22-18 AWG, 16-14 AWG, 12-10 AWG and construction of non-insulated, vinyl insulated, nylon fully insulated etc.

The Quick Disconnect shall have regulatory agency coverage (UL Listing, CSA Certification). The tongue shall be marked with the wire range and the manufacturer's symbol.(á)

The Nylon Fully Insulated Male Quick Disconnect with Insulation Grip shall be tin plated .032" thick copper, with a 0.250" blade conforming to ANSI/NEMA DC-2 dimensions and a 0.25" long barrel with a tin plated brass insulation grip covered by a molded nylon funnel entry sleeve which extends to cover the tongue, color coded, and sized for a specified (AWG) wire range (22-18, 16-14, 12-10).

Insulated connectors shall be UL Listed and CSA Certified for 600 volts maximum, building wire: 1000 volts maximum, signs and fixtures (luminaires). The connector shall be temperature rated 221°F (105°C) maximum.

Quick Disconnect connectors shall be suitable for field or factory wiring, with a UL Recognized strain relief required.

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