

[Product Catalog for Electronic Specialty Markets](#) > [3M™ Terminals, Kits & Tools](#) > [Disconnects](#) > [Scotchlok™ Male Disconnects - Nylon Fully Insulated w/ Insulation Grip](#) >

 [Printer-friendly format](#) **3M™ Scotchlok™ Fully Nylon Insulated w/Insulation Grip Male Disconnect MNG10-250DMIX, 12-10 AWG**



This terminal has a wire range of 12-10 AWG and has case quantities of 500 per case.

[\[click to enlarge\]](#)

GTIN(UPC/EAN) : 0 00 54007 11729 2
3M Id : 80-6100-9103-7

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 \(PDF 19.4 K\)](#)
- [Terminal Stud Size Chart - Product Selection Guide \(PDF 5.2 K\)](#)

Please Note:
Adobe® Acrobat® Reader is required to view PDF documents.



Solutions for Electronic Specialty Markets (ESM)

- Product Catalog for Electronic Specialty Markets
 - 3M™ Electronic Specialty Markets - New Product Releases
 - 3M™ Abrasives
 - 3M™ Adhesives, Cleaners & Compounds
 - 3M™ Breadboards & Test Clips
 - 3M™ Cable & Assemblies
 - 3M™ Copper Interconnects
 - 3M™ Fiber Optics
 - 3M™ Fire Protection
 - 3M™ Heat Shrink
 - 3M™ Identification Systems
 - 3M™ Occupational Health & Safety Products
 - 3M™ Protective Bumpers
 - 3M™ Reclosable Fasteners
 - 3M™ Splicing, Terminating & Ducting
 - 3M™ Static Control
 - 3M™ Tapes
 - 3M™ Terminals, Kits & Tools
 - 3M™ Vacuums & Accessories
 - 3M™ Warehousing & Packaging Supplies
 - 3M™ Wire Connectors

Other Tools

- What's New
- Sales Contacts
- U.S. Distributors

Characteristics

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

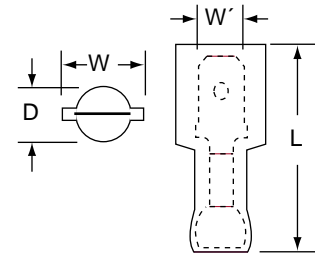
EU RoHS Compliant	Yes
Fastener Orientation	Male
Insulation Material	Nylon
Pad Width	0.250 Inch
Terminal Style	Fully Insulated
Terminal Type	Disconnect
UL File Number	E70512
Wire Gauge Range	10 to 12 American Wire Gauge (AWG)



Scotchlok™ 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

⚠ 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.

Specifications

Wire Size:	See Table Above
Barrel Seam:	Butted with Insulation Grip
Maximum Voltage Rating:	600 V Building Wire 1000 V Signs or Fixtures (Luminaires)
Maximum Temperature Rating:	221°F (105°C)
Maximum Current:	Same as Wire
Insulator Material:	Nylon
Terminal Material:	ETP Copper
Insulation Grip Material:	Brass
Plating:	Tin



Barrel Crimp (Electrical)



Insulation Crimp (Mechanical)

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.

3M and Scotchlok are trademarks of 3M.

 is a trademark of Underwriters Laboratories.

 is a trademark of Canadian Standards Association.

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.

Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture as of the date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**

3M

Electrical Products Division

6801 River Place Blvd.
Austin, TX 78726-9000
<http://www.3M.com/elpd>

Litho in USA.
© 3M 2002 78-8125-9869-2-A