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 [Printer-friendly format](#) **3M™ Scotchlok™ Fully Nylon Insulated w/Insulation Grip Male Disconnect MNG18-187DMIX, 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 11710 0
3M Id : 80-6100-9122-7

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 MNG18-187DMI, MNG14-187DMI - Data Sheet \(PDF 23.7 K\)](#)
- [Terminal Stud Size Chart - Product Selection Guide \(PDF 5.2 K\)](#)

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



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

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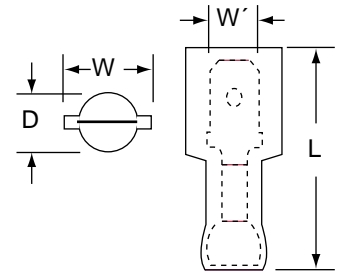
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Pad Width	0.187 Inch
Terminal Style	Fully Insulated
Terminal Type	Disconnect
UL File Number	E70512
Wire Gauge Range	18 to 22 American Wire Gauge (AWG)



Scotchlok™ Terminals

MNG18-187DMI, MNG14-187DMI
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.
MNG18-187DMI	22-18	0.187 x 0.020	0.87	0.37	0.30	0.24	0.145
MNG14-187DMI	16-14	0.187 x 0.020	0.87	0.37	0.30	0.24	0.145



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, TR490 (ratchet style) hand tools.

Specifications

Wire Size:
Barrel Seam:

Maximum Voltage Rating:

Maximum Temperature Rating:
Maximum Current:
Insulator Material:
Terminal Material:
Insulation Grip Material:
Plating:

See Table Above
Butted with Insulation Grip
600 V Building Wire
1000 V Signs or Fixtures (Luminaires)
221°F (105°C)
Same as Wire
Nylon
ETP Copper
Brass
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 non-insulated, vinyl insulated, nylon fully insulated, etc.

The Nylon Fully Insulated Male 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 0.020" thick copper, with a 0.187" blade conforming to ANSI/NEMA DC-2 dimensions and a 0.24" 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).

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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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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