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 [Printer-friendly format](#) **3M™ Highland™ Fully Insulated Nylon Male Tab MTI10-250Q, 12-10 AWG**

This tab has a wire range of 12-10 and a stud/tab size of .250. It comes in quantities of 25 terminals per bag and 10 bags per case.

GTIN(UPC/EAN) : 0 00 54007 70471 3
3M Id : 80-6105-8985-7

Additional Information

Attached to mating part by tongue slipping over male tab. Use of dents and rolled edges on female part provides excellent holding force while allowing easy and quick disconnect.

Learn More . . .

- [Packaging Data](#)
- [Highland Terminals MTI10-250, MTI14-250, MTI18-250 - Data Sheet \(PDF 20.2 K\)](#)
- [Highland™ Male Tabs - Nylon Fully Insulated - Product Selection Guide \(PDF 8.0 K\)](#)
- [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= E70512-CSA =LR22190
Barrel Style	Butted
China RoHS - Below MCV	Yes
CSA File Number	UL=E70512-CSA=LR22190
EU RoHS Compliant	Yes
Fastener Orientation	Male
Insulation Material	Nylon
Pad Width	0.250 Inch
Terminal Style	Fully Insulated

Government Solutions Catalogs

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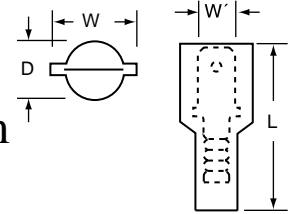
- MSDS Search
- Government Contracts

Terminal Type	Disconnect
UL File Number	UL= E70512-CSA = LR22190
Wire Gauge Range	10 to 12 American Wire Gauge (AWG)



Highland™ Terminals

MTI10-250, MTI14-250, MTI18-250
Male Disconnect, Nylon Fully Insulated, Butted Seam



Data Sheet

Product Number	Wire Range (AWG)	Mates with Male Tab Width (W') x Thickness	L	W	D	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
MTI10-250	12-10	0.250 x 0.032	1.05	0.47	0.39	0.25	0.150	0.250
MTI14-250	16-14	0.250 x 0.032	0.95	0.44	0.30	0.25	0.085	0.170
MTI18-250	22-18	0.250 x 0.032	0.95	0.44	0.30	0.25	0.065	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.

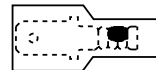
UL Listed and CSA Certified for use on stranded copper (AWG) wire only.


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-490 (ratchet style) hand tools.

Specifications

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



 Barrel Crimp (Electrical)

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-Slide Connectors shall, electrically and mechanically connect permanently to the prestripped end of a stranded copper wire: and have a flat rectangular tongue portion for mating to a Female 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-Slide Connectors shall have regulatory agency coverage (UL Listing, CSA Certification). The tongue shall be marked with the wire range and the manufacturer's symbol. (↑)

The Nylon Insulated 0.250" Male Disconnect shall be tin plated 0.032" thick copper, with a 0.250" blade conforming to ANSI/NEMA DC-2 dimension and a 0.25" long barrel covered by a molded nylon sleeve, 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 Slide Connectors shall be suitable for field or factory wiring, with a UL Recognized strain relief required.

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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.

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.**

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