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 [Printer-friendly format](#) **3M™ Highland™ Female Disconnect Nylon Fully Insulated FDI18-250L**

This female disconnect accepts a 22-18 AWG, a .250 stud size and has bag quantities of 50.

GTIN(UPC/EAN) : 0 00 54007 70281 8
3M Id : 80-6105-5593-2

Additional Information

Attached to male disconnect 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 Female Disconnects - Nylon Fully Insulated - Product Selection Guide \(PDF 8.0 K\)](#)
- [Highland Terminal FDI10-250 - Data Sheet \(PDF 25.1 K\)](#)
- [Highland Terminals FDI14-187, FDI18-187 - Data Sheet \(PDF 20.0 K\)](#)
- [Highland Terminals FDI14-250, FDI18-250 - Data Sheet \(PDF 26.7 K\)](#)
- [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 | Butted |
| China RoHS - Below MCV | Yes |
| CSA File Number | LR22190 |
| EU RoHS Compliant | Yes |

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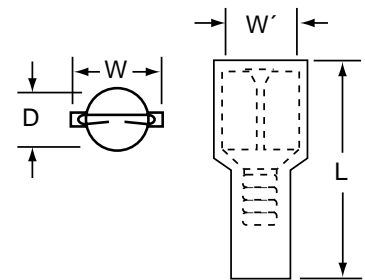
| | |
|-----------------------------|------------------------------------|
| Fastener Orientation | Female |
| Insulation Material | Nylon |
| Pad Width | 0.250 Inch |
| Terminal Style | Fully Insulated |
| Terminal Type | Disconnect |
| UL File Number | E70512 |
| Wire Gauge Range | 18 to 22 American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



Highland™ Terminals

FDI14-250, FDI18-250

Female 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 |
|----------------|------------------|--|------|------|------|---------------|-------------|-----------------------------|
| FDI14-250 | 16-14 | 0.250 x 0.032 | 0.87 | 0.37 | 0.23 | 0.25 | 0.080 | 0.145 |
| FDI18-250 | 22-18 | 0.250 x 0.032 | 0.87 | 0.37 | 0.23 | 0.25 | 0.080 | 0.145 |



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



CANADIAN STANDARDS
ASSOCIATION
STANDARD NO. 22.2
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.

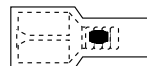
UL Listed and CSA Certified for use on stranded copper (AWG) wire only.


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 |
| Maximum Voltage Rating: | 600 V Building Wire 1000 V signs or fixtures (Luminaires) |
| Maximum Operating Temp: | 221°F (105°C) |
| Maximum Current: | Same as Wire |
| Insulator Material: | Nylon |
| Terminal Material: | Brass |
| Plating: | Tin |



 Barrel Crimp (Electrical)

Suitable for factory installation on steel or brass tabs, UL and CSA.

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

Engineering Specification

Crimp-Type Female Disconnect Terminals shall, electrically and mechanically, connect permanently to a prestripped end of a stranded copper wire: and have a tongue portion with fingers which grip a Male Disconnect in a separable, reusable manner, forming a Quick Connect Wiring Termination.

The connector line shall offer tongue variations (sized to grip Male Tabs: 0.187" x .0250") and barrel variations in construction (non-insulated, nylon insulated with insulation grip, etc.). The tongue portion shall be marked with the wire range and manufacturer's symbol (↑).

The Nylon Fully Insulated 0.250" Female Disconnect shall be tin plated 0.020" thick brass with a tongue for gripping a 0.250" x 0.032" per ANSI/NEMA CD-2 and a 0.25" long barrel covered by a 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 V building wire: 1000 V signs or lighting fixtures (luminaires) and temperature rated 221°F (105°C) maximum.

Female Disconnects 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.

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