

▼ **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

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

 [Printer-friendly format](#) **Highland™ Female Disconnect Nylon Fully Insulated FDI14-187L**

This female disconnect accepts a 16-14 AWG, a .187 stud size and has bag quantities of 50.

GTIN(UPC/EAN) : 0 00 54007 70278 8
3M Id : 80-6105-5590-8

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
Fastener Orientation	Female

◦ **Other Tools**

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

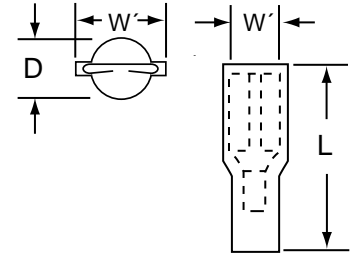
Insulation Material	Nylon
Pad Width	0.187 Inch
Terminal Style	Fully Insulated
Terminal Type	Disconnect
UL File Number	E70512
Wire Gauge Range	14 to 16 American Wire Gauge (AWG)



Highland™ Terminals

FDI14-187, FDI18-187

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
FDI14-187	16-14	0.187 x 0.020	0.81	0.30	0.23	0.25	0.085	0.145
FDI18-187	22-18	0.187 x 0.020	0.81	0.30	0.23	0.25	0.085	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

Specifications

Wire Size:	See Table Above
Barrel Seam:	Butted
Insulator Max. Volt 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

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.



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 Disconnects shall, electrically and mechanically, connect permanently to the prestripped end of a stranded copper wire: and have a tongue portion with fingers which grip a Male Quick Slide in a separable, reusable manner, forming a Quick Connect Wiring Termination.

The connector line shall offer a tongue variations (sized to grip male tabs: 0.250" x 0.032" or 0.187" x 0.020" per ANSI/NEMA CD-2) and barrel variations in wire (AWG) size (22-18, 16-14, 12-10) and construction (non-insulated, vinyl insulated, nylon fully, etc.). The Female Disconnects shall have regulatory agency coverage (UL Listing, CSA Certification). The tongue portion shall be marked with the wire range and manufacturer's symbol (↑).

The Nylon Fully Insulated 0.187" Female Disconnect shall be tin plated 0.016" thick brass, with a tongue for gripping a 0.187" x 0.020" Male Tab, per ANSI/NEMA CD-2 and a 0.250" long barrel covered by a molded nylon funnel entry sleeve, which extends to cover the tongue, color coded and sized for a specified (AWG) wire range (Red, 22-18: Blue, 16-14).

Insulated connectors shall be UL Listed and CSA Certified for 600 V building wire; 1000V signs or 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.

3M and Scotchlok are trademarks of 3M

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.**



Electrical Products Division

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