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## [Printer-friendly format](#) **Highland™ Female Disconnect Nylon Fully Insulated FDI18-187L**

This female disconnect accepts a 22-18 AWG, a .187 stud size and has bag quantities of 50.

GTIN(UPC/EAN) : 0 00 54007 70280 1  
3M Id : 80-6105-5592-4

### 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

<b>Agency Approvals</b>	UL and CSA
<b>Barrel Style</b>	Butted
<b>China RoHS - Below MCV</b>	Yes
<b>CSA File Number</b>	LR22190
<b>EU RoHS Compliant</b>	Yes
<b>Fastener Orientation</b>	Female

<b>Insulation Material</b>	Nylon
<b>Pad Width</b>	0.187 Inch
<b>Terminal Style</b>	Fully Insulated
<b>Terminal Type</b>	Disconnect
<b>UL File Number</b>	E70512
<b>Wire Gauge Range</b>	18 to 22 American Wire Gauge (AWG)

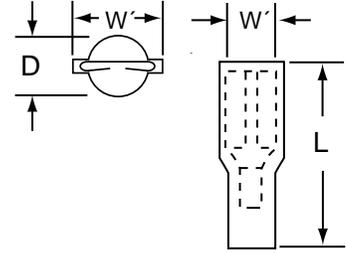
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# Highland™ Terminals

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

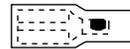
#### ⚠ WARNING

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.

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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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