3M United States

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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 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.

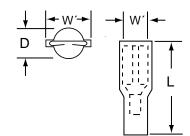


Characteristics					
Agency Approvals	UL and CSA				
Barrel Style	Butted				
China RoHS - Below MCV	Yes				
CSA File Number	LR22190				
EU RoHS Compliant	Yes				
Fastener Orientation	Female				

on female part provides

Insulation Material	Nylon
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)

3M 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

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.

Specifications

Wire Size: Barrel Seam: Insulator Max. Volt Rating:

Maximum Operating Temp: Maximum Current: Insulator Material: Terminal Material: Plating: See Table Above Butted 600 V Building Wire 1000 V Signs or Fixtures (Luminaires) 221°F (105°C) Same as Wire Nylon Brass Tin

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: $0.250^{"} \times 0.032^{"}$ or $0.187^{"} \times 0.020^{"}$ per ANSI/NEMA CD-2) and barrel variations in wire (AWG) size (22-18, 167-14, 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 (\uparrow).

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.

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