

[Product Catalog for Electronic Specialty Markets](#) > [3M™ Terminals, Kits & Tools](#) > [Disconnects](#) > [Highland™ Female Disconnects - Vinyl Insulated Butted Seam](#) >

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
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[Printer-friendly format](#) **3M™ Highland™ Female Disconnect Vinyl Insulated FDV14-187L, 16-14 AWG, 50 per bag**

This female disconnect accepts a .187 stud size and has case quantities of 500.

GTIN(UPC/EAN) : 0 00 54007 70283 2
3M Id : 80-6105-5595-7

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 Terminals FDV10-250 - Data Sheet \(PDF 24.6 K\)](#)

[Highland Terminals FDV14-187, FDV18-187 - Data Sheet \(PDF 24.1 K\)](#)

[Highland Terminals FDV14-250, FDV18-250 - Data Sheet \(PDF 25.7 K\)](#)

[Highland™ Female Disconnects - Vinyl 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 and CSA
Barrel Style	Butted
China RoHS - Below MCV	No
CSA File Number	LR22190
EU RoHS Compliant	No
Fastener Orientation	Female

Other Tools

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

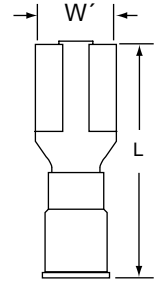
Insulation Material	Vinyl
Pad Width	0.187 Inch
Terminal Style	Standard
Terminal Type	Disconnect
UL File Number	E70512
Wire Gauge Range	14 to 16 American Wire Gauge (AWG)



Highland™ Terminals

FDV14-187, FDV18-187

Female Disconnect, Vinyl Insulated, Butted Seam



Data Sheet

Product Number	Wire Range (AWG)	Mates with Male Tab Width (W') x Thickness	L	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
FDV14-187	16-14	0.187 x 0.020	0.78	0.25	0.085	0.145
FDV18-187	22-18	0.187 x 0.020	0.78	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.

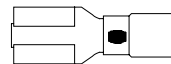
Make the crimp in the proper station of a recommended 3M crimp tool: TH-440, TH-450 (scissor style), or TR-490 (ratchet style) hand tools.

Specifications

Wire Size:
Barrel Seam:
Maximum Voltage Rating:

See Table Above
Butted
600V Building Wire
1000 V Signs or
Fixtures (luminaires)
(105°C) 221°F
Same as Wire
Vinyl
Brass
Tin

Maximum Operating Temp:
Maximum Current:
Insulator Material:
Terminal Material:
Plating:



● 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 disconnect in a separable, reusable manner, forming a quick connect wiring termination.

The connector line shall offer tongue variations (sized to grip male tabs: 0.250" 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 and nylon fully insulated, etc.). The female disconnects shall have regulatory agency coverage (UL Listing, CSA Certified). The tongue portion shall be marked with the wire range and manufacturer's symbol (↑).

The vinyl insulated 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 vinyl sleeve, 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 volts minimum, building wire: 1000 volt maximum; 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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