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 [Printer-friendly format](#) **3M™ Highland™ Female Disconnect Vinyl Insulated FDV10-250Q, 12-10 AWG, 25 per bag**

This female disconnect accepts a .250 stud size and has case quantities of 255.

GTIN(UPC/EAN) : 0 00 54007 70458 4
3M Id : 80-6105-8972-5

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

Solutions for Electronic Specialty Markets (ESM)

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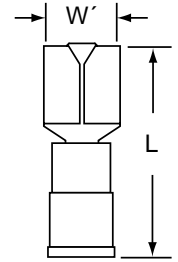
Insulation Material	Vinyl
Pad Width	0.250 Inch
Terminal Style	Standard
Terminal Type	Disconnect
UL File Number	E70512
Wire Gauge Range	10 to 12 American Wire Gauge (AWG)



Highland™ Terminals

FDV10-250

Female Disconnect, Vinyl Insulated, Interlock Barrel



Data Sheet

Product Number	Wire Range (AWG)	Mates with Male Tab Width (W') x Thickness	L	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
FDV10-250	12-10	0.250 x 0.032	0.95	0.25	0.128	0.250



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:	Interlock
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:	Vinyl
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 variations (sized to secure Male Tabs: 0.250" x .0032" 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 insulated, etc.). The tongue portion shall be marked with the wire range and manufacturer's name or trade mark (↑).

The Vinyl Fully Insulated 0.250" x 0.032" Female Quick-Slide shall be tin plated 0.020" thick brass with a tongue for gripping a 0.250" x 0.032" male tab per ANSI/NEMA CD-2 and a 0.25" long interlocking barrel, covered by a molded vinyl sleeve, color coded and sized for a specified (AWG) wire range (12-10).

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.

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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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