

## Solutions for Electronic Specialty Markets (ESM)

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## [Printer-friendly format](#) **3M™ Highland™ Female Disconnect Non Insulated FD18-250L, 22-18 AWG, 50 per bag**

This female disconnect accepts a .250 Stud Size and has case quantities of 10 bags.

GTIN(UPC/EAN) : 0 00 54007 70276 4  
3M Id : 80-6105-8970-9

### 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 - Non-Insulated - Product Selection Guide \(PDF 7.9 K\)](#)

[Highland Terminal FD14-187, FD18-187 - Data Sheet \(PDF 17.8 K\)](#)

[Highland Terminal FD14-250, FD18-250 - Data Sheet \(PDF 23.2 K\)](#)

[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>Pad Width</b>	0.250 Inch
<b>Terminal Style</b>	Standard

<b>Terminal Type</b>	Disconnect
<b>UL File Number</b>	E70512
<b>Wire Gauge Range</b>	18 to 22 American Wire Gauge (AWG)

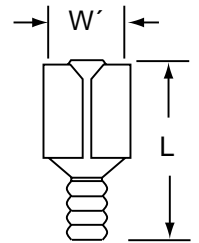
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# Highland™ Terminals

FD14-250, FD18-250

Female Disconnect, Non-Insulated, Butted Seam



## Data Sheet

Product Number	Wire Range (AWG)	Mates with Male Tab Width (W') x Thickness	L	Barrel Length	Barrel I.D.
FD14-250	16-14	0.250 x 0.032	0.66	0.25	0.080
FD18-250	22-18	0.250 x 0.032	0.66	0.25	0.080



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.

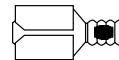
UL Listed and CSA Certified for use on stranded copper (AWG) wire only.


Strip away the end 1/4 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:	Butted
Maximum Voltage Rating:	600 V Building Wire 1000 V signs or fixtures (Luminaires)
Maximum Current:	Same as Wire
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 tongue variations (sized to grip Male Tabs: 0.187" x .0250") and barrel variations in construction (non-insulated, nylon insulated with insulation grip, etc.). The tongue portion shall be marked with the wire range and manufacturer's symbol (↑).

The Non-Insulated 0.250" Female Disconnect shall be tin plated 0.020" thick brass with a tongue for gripping a 0.250" Male Tab of 0.032" thickness and a butted seam barrel sized for a specified (AWG) wire range (22-18, 16-14).

Insulated connectors shall be UL Listed and CSA Certified for 600 V building wire: 1000 V signs or lighting fixtures (luminaires).

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.**

# 3M

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