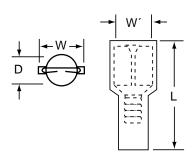
3M Highland[™] Terminals

FDI14-250, FDI18-250 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
FDI14-250	16-14	0.250 x 0.032	0.87	0.37	0.23	0.25	0.080	0.145
FDI18-250	22-18	0.250 x 0.032	0.87	0.37	0.23	0.25	0.080	0.145



UNDERWRITERS LABORATORIES STANDARD NO. UL 310 3M FILE NO. E70512

Specifications

Wire Size: Barrel Seam: Maximum Voltage Rating:

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

CANADIAN STANDARDS ASSOCIATION STANDARD NO. 22.2 NO. 153 3M FILE NO. LR22190

See Table Above

221°F (105°C)

Same as Wire

600 V Building Wire 1000 V signs or

fixtures (Luminaires)

Butted

Nylon

Brass

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 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: $0.187^{"x} \cdot 0.250^{"}$) 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 (\uparrow).

The Nylon Fully Insulated 0.250" Female Disconnect shall be tin plated 0.020" thick brass with a tongue for gripping a 0.250" x 0.032" per ANSI/NEMA CD-2 and a 0.25" long barrel covered by a nylon funnel entry sleeve, which extends to cover the tongue, color coded and 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) 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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