3M United States

3M Worldwide : United States : Government Solutions



• Other Tools

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- Government Contracts

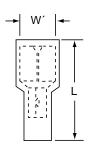
Agency Approvals	UL and CSA
Barrel Style	Butted
China RoHS - Below MCV	Yes
CSA File Number	LR22190
EU RoHS Compliant	Yes

Fastener Orientation	Female
Insulation Material	Nylon
Pad Width	0.250 Inch
Terminal Style	Fully Insulated
Terminal Type	Disconnect
UL File Number	E70512
Wire Gauge Range	10 to 12 American Wire Gauge (AWG)

3M Highland[™] Terminals

FDI10-250 Female Disconnect, Interlock Barrel, Nylon Fully Insulated

Data Sheet



Product Number	Wire Range (AWG)	Mates with Male Tab Width (W') x Thickness	L	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
FDI10-250	12-10	0.250 x 0.032	0.99	0.25	0.128	0.250



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

Specifications

Wire Size: Barrel Seam: Maximum Voltage Rating:

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

CANADIAN STANDARDS

ASSOCIATION

NO. 153

STANDARD NO. 22.2

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.

Engineering Specification

Crimp-Type Female Disconnect 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 0.250° x $.0.032^{\circ}$ 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 Female Disconnects shall have regulatory agency coverage (UL Listed and CSA Certified). The tongue portion shall be marked with the wire range and manufacturer's symbol (\uparrow).

The Nylon Insulated Interlock barrel 0.250" Female Disconnect 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 nylon sleeve, which extends to cover the tongue, 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.

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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