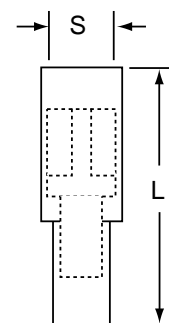


3M

Specialty Terminals

81F-180-NL, 82F-180-NL

Female Snap Receptacle, Bullet Style,
Nylon Fully Insulated, Butted Seam



Data Sheet

| Product Number | Wire Range (AWG) | Mating Snap Diameter S | L | Barrel Length | Barrel I.D. | Maximum Insulation Diameter |
|----------------|------------------|------------------------|------|---------------|-------------|-----------------------------|
| 81F-180-NL | 22-18 | 0.180 | 1.02 | 0.25 | 0.095 | 0.145 |
| 82F-180-NL | 16-14 | 0.180 | 1.02 | 0.25 | 0.115 | 0.170 |



UNDERWRITERS
LABORATORIES
STANDARD NO. UL 486A
3M FILE NO. E23438



CANADIAN STANDARDS
ASSOCIATION
STANDARD NO. 22.2
NO. 0, 65
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:

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

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



Barrel Crimp (Electrical)

Engineering Specification

Crimp-Type Female Disconnects 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 bullet-style Male Tabs 0.180" diameter per ANSI/NEMA CD-2) and barrel variations in wire (AWG) size (22-18, 16-14) and construction (vinyl insulated, nylon fully insulated, etc.). The female disconnects shall have regulatory agency coverage (UL Listing, CSA Certification). The tongue portion shall be marked with the wire range and manufacturer's symbol (↑).

The Nylon Fully Insulated Bullet-Style Female Disconnect shall be tin-plated 0.016" thick brass with a receptacle for gripping a bullet-style Male Tab of diameter 0.180" per ANSI/NEMA CD-2 and a 0.25" long barrel covered by a molded nylon funnel entry sleeve, which extends to cover the tongue, 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 V building wire: 1000 V signs or lighting fixtures (luminaires) and temperature rated 221°F (105°C) maximum.

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