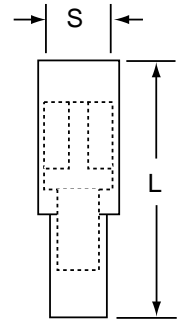




# Specialty Terminals

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:

See Table Above  
Butted  
600 V Building Wire  
1000 V Signs or  
Fixtures (Luminaires)

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

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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### 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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