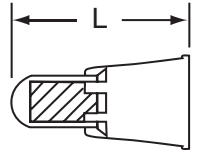




# Crimp Sleeve Connector, Nylon Insulated, Copper Insert

## S31



## Data Sheet

Product Number	Maximum Voltage Rating	AWG (mm <sup>2</sup> ) Wire Range O.D.	L	Barrel Length	Barrel I.D.	Maximum Temperature Range
S-31	600V	2#18, 3#14 (1,6-6,6mm <sup>2</sup> )	0.85	0.34	0.152	221° F (105° C)



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



CANADIAN STANDARDS  
ASSOCIATION  
STANDARD NO. 22.2  
NO. 0, 188  
3M FILE NO. LR15503

### Specifications

Wire Size:

Maximum Voltage Rating:

Maximum Operating Temp:

Maximum Current:

Insulator Material:

Sleeve Material:

Sleeve Plating:

18-10 AWG Copper wire only

600 V Building Wire  
1000 V signs, fixtures (Luminaires)

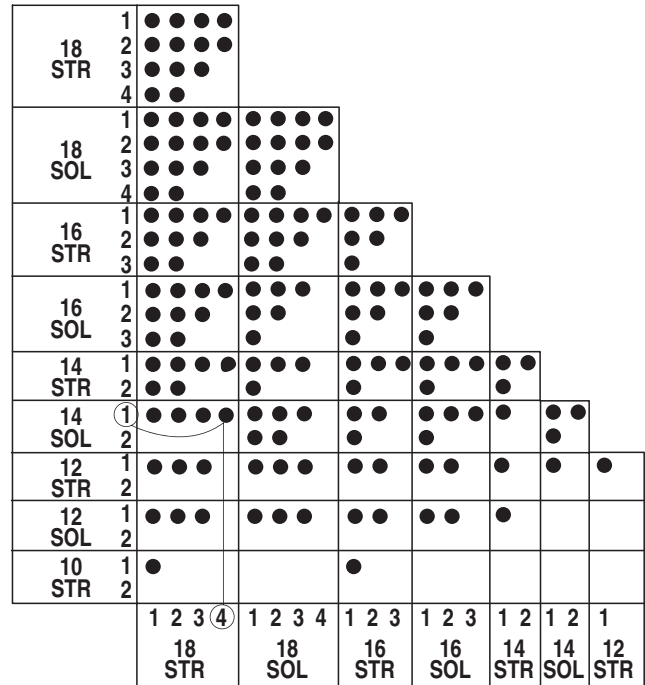
221° F (105° C)

Same as Wire

Nylon

Copper

Tin



How to read chart:

One #14 solid plus four #18 stranded (equalling five wires) may be connected using a S-31 connector.

## Installation Information

### **⚠ WARNING**

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

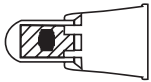
UL Listed and CSA Certified for use on solid or stranded copper (AWG) wire only.

#### **Instructions:**

1. Strip all wires 3/8 inch.
2. Pretwist wires before crimping.
3. Insert wires into connector.
4. Insert into proper tool station and crimp.

#### **3M™ Crimp Stations:**

TH-450 12-10 Insul  
TH-440 12-10 Insul  
TR-482 12-10 Insul



● Barrel Crimp (Required)

*Pretwist wires  
before crimping.*

## Engineering Specification

3M Crimp-Type Connectors shall, electrically and mechanically, connect permanently to the prestripped ends of two or more copper wires. The connector line shall have regulatory agency coverage (UL Listing CSA Certification). The connectors shall be marked with the wire range and a manufacturer's symbol (↑).

The 3M Copper Insert Closed End crimp type connector shall be tin plated, annealed, seamless copper sleeve, 0.34" long and sized for a selection of wire combinations within a specified (AWG) wire range (18-10). The copper sleeve shall be covered by a molded nylon, skirted insulator of natural color.

Insulated terminals shall be UL Listed and CSA Certified for 600 Volts maximum, building wire: 1000-Volts maximum, in signs fixtures and luminaires, and have a maximum operating temperature of 221°F-(105°C).

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# 3M

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