

3M™ Electrical Spring Connectors 512

Data Sheet

Application

Use a 3M™ Electrical Spring Connector 512 connector to electrically connect two or more wire ends in a pigtail application and insulate the connection, or to insulate a single wire end.

Wire Range

AWG Range: Solid or stranded copper conductors only. No. 20 thru No. 8 (0,75 mm² thru 6,0 mm²).

Construction

Spring - Spring Steel, Corrosion-Resistant Coating
 Insulator - Flame-Retardant Nylon
 Color - Red

Weight

.006 lb. (2,7 gm)

Engineering Specification

3M Electrical Spring Connector 512 shall be capable of connecting wires within the range of No. 20 thru No. 8 solid or stranded copper conductors in a pigtail application. The connector shall be constructed of an active (live) spring and covered by a flame-retardant nylon insulator. The spring shall have a corrosion resistant coating. The connector shall be UL Listed as a pressure cable connector and be CSA Certified. The connectors shall be voltage rated 600 volts maximum, building wire,

1000 volts maximum signs, fixtures, and luminaires. The connector shall have a maximum operating temperature of 105°C.

Regulatory Agencies

UL Listed as a Pressure Cable Connector
 Tested per UL Standard 486C
 UL File No. E23438

CSA Certified-CSA Standard C22.2 No. 0, 188-M1983
 CSA File No. LR15503

Operating Temperature: 105°C (221°F)
 Voltage Rating: 600 volts max. building wire
 1000 volts max. signs and luminaires.
 Flammability Rating: C22.2 No. 0.6 V-2

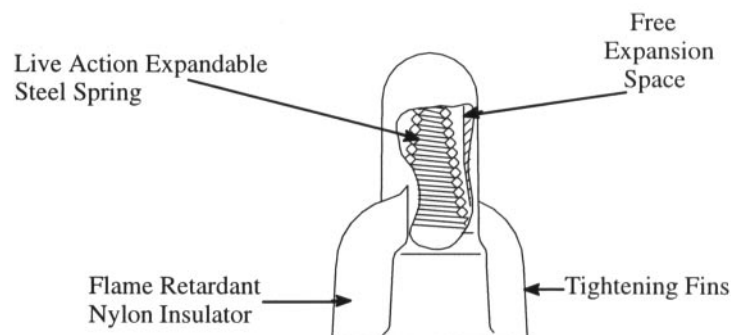
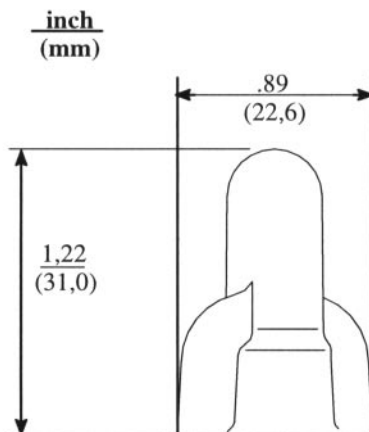
Classified in accordance with IEC (International Electrotechnical Commission) publications 685-1 and 685-2-4. UL-IEC file No. E95240.

Operating Temperature: 105°C (221°F)
 Voltage Rating: 600 volts max. building wire;
 1000 volts max. signs and fixtures
 Flammability Rating: UL94 V-2

Federal Specification W-S-610:

“Commercial package only”

Type	Class	Kind	Style
1	1	cu	G



Installation Instructions

WARNING

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

1. Strip wire insulation to length specified in chart to the right, according to conductor size.
2. Firmly grasp wires, making sure insulation ends are even and tightly bundled. (wires may be twisted or untwisted). Slip connector over wire tips.
3. Turn connector onto wires in a clockwise direction until secure.
4. To remove, turn connector counter-clockwise.

Conductor Size	Strip Length
20-16 AWG (0,75-1,5 mm ²)	3/4" (19,0 mm)
14-8 AWG (2,5-4,0 mm ²)	5/8" (15,9 mm)

Metric Wire Combinations

International Electrotechnical Commission



Rated Capacity: 2,0-16,0 mm²

Voltage Rating: 600 volts maximum

Reusability: Reusable for same capacity or larger

Wire Type: Copper only

See installation instructions for conductor strip lengths.

I.E.C. Metric Wire Matrix:

Twist-on connecting devices for the combination of rigid (solid or stranded) and flexible conductors.

Conductor Size	Quantity
0,75 mm ²	3-6
1,0 mm ²	2-6
1,5 mm ²	2-6
2,5 mm ²	2-6
4,0 mm ²	2-4
6,0 mm ²	2

Only AWG combinations are UL Listed or CSA Certified.

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