3MTM Electrical Spring Connectors 512

Data Sheet

Application

Use a 3MTM 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

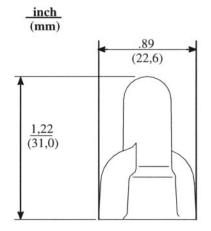
Operating Temperature: 105°C (221°F) Voltage Rating: 600 volts max. building wire 1000 volts max. signs and luminaires. Flammability Rating: C22.2 No. 0.6 V-2

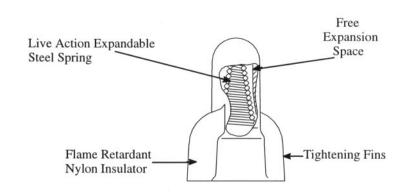
Classified in accordance with **IEC** (International Electrotechnical Commission) publications 685-1 and 685-2-4. UL-IEC file No. E95240.

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:

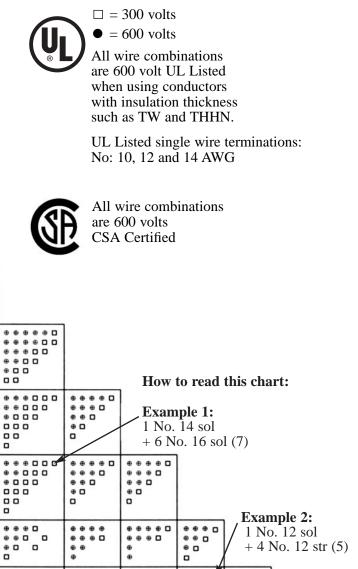
_	"Commercial	package only"	
Type	Class	Kind	Style
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3MTM Electrical Spring Connector 512

AWG Wire Combinations Copper to Copper Conductors



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Installation Instructions

AWARNING

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 mm²)	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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