

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# **3M**

# Scotchlok<sup>TM</sup>

## Insulated Electrical Spring Connector R (Red)

## **Data Sheet**





#### **Application**

Use a Scotchlok<sup>™</sup> connector R to electrically connect two or more conductor ends in a pigtail application and insulate the connection, or insulate a single conductor end.

#### Wire Range

AWG Range: solid or stranded copper conductors only. No. 18 thru No. 10 (1,0 mm<sup>2</sup> thru 6,0 mm<sup>2</sup>)

#### Construction

Spring Spring steel, Corrosion resistant coatingShell Steel, Corrosion resistant coating

Insulator Flame Retardant Flexible Polyvinyl

Chloride Color- red

#### Weight

.0084 lb. (3.81 gm)

#### **Engineering Specification**

Scotchlok Electrical Spring Connector (3M part No. Scotchlok R) capable of connecting two or more wires in a pigtail application, in the wire range of No. 18 thru No. 10 AWG solid or stranded copper conductors. The connector shall be constructed of an active (live) spring and a steel shell covered by a vinyl insulator. The spring shall have a corrosion

resistant coating. The connector shall be UL Listed and CSA Certified as a pressure cable connector. The connector 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

Operating Temperature: 105°C (221°F)

Voltage Rating: 600 volts max. building wire;

1000 volts max. signs and fixtures Flammability Rating: UL94 V-2

CSA Certified-CSA Standard C22.2 No. 0,

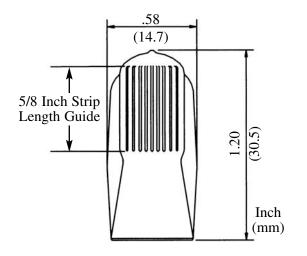
188-M1983

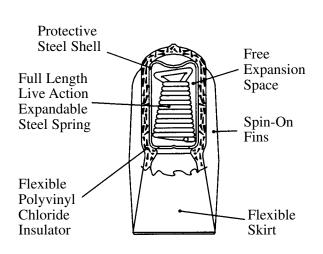
CSA File No. LR15503

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

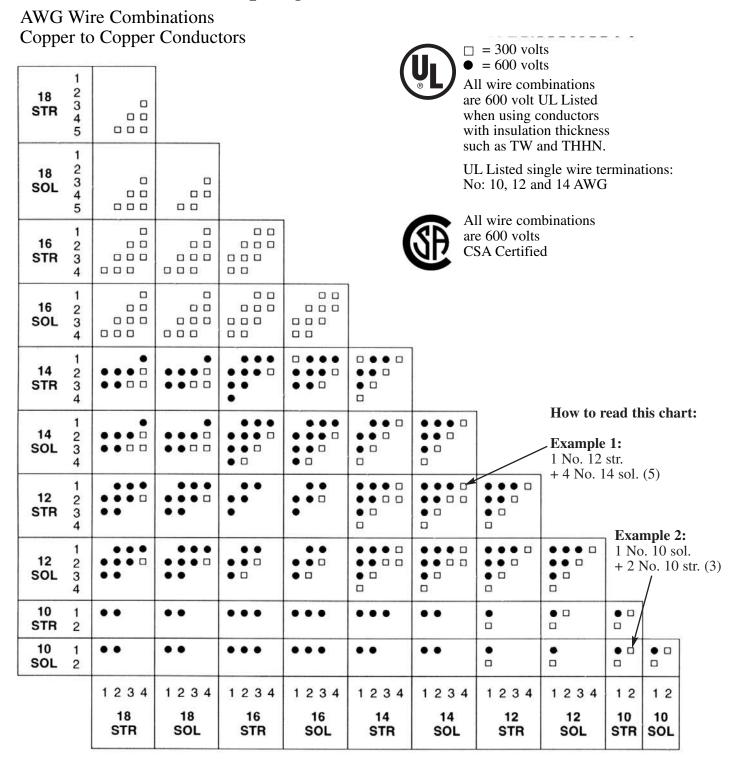
#### **Federal Specification W-S-610:**

	"Commercial package only"			
Type	Class	Kind	Style	
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# Scotchlok<sup>™</sup> Insulated Electrical Spring Connector R



#### **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 5/8 inch (15,9 mm) from the end of the wires to be connected.
- 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.

### **Metric Wire Combinations**

#### **Copper Conductors Only**

Cross Section Capacity			
Minimum	Maximum		
5,0mm²	16,0mm²		

Conductor Combinations				
Quantity	Size	Туре		
5-6	1,0mm²	sol/str		
4-6	1,5mm²	sol/str		
2-5	2,5mm²	sol/str		
2-4	4,0mm²	sol/str		
2	6,0mm²	sol/str		

Only AWG combinations are UL Listed or CSA Certified.

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**Electrical Products Division**