Scotchlok[™] Insulated Electrical Spring Connector R (Red)

Data Sheet



Application

Use a Scotchlok[™] 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 mm² thru 6,0 mm²)

Construction

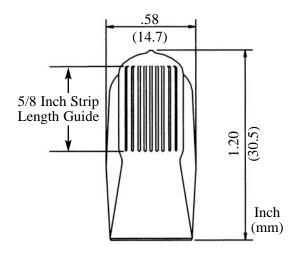
Spring	Spring steel, Corrosion resistant coating
Shell	Steel, Corrosion resistant coating
Insulator	Flame Retardant Flexible Polyvinyl
	Chloride
	Color- red

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

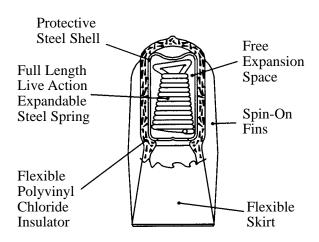
UL Listed as a Pressure Cable Connector Tested per UL Standard 486C UL File No. E23438 Operating Temperature: 105°C (221°F) Voltage Rating: 600 volts max. building wire; 1000 volts max. signs and fixtures Flammability Rating: UL94 V-2

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:

1	"Commercial		
Type	Class	Kind	Style
1	1	cu	G



Scotchlok[™] Insulated Electrical Spring Connector R

AWG Wire Combinations Copper to Copper Conductors

Coppe	er to	Copper	Conduc	tors				= 300 vol			
18 STR	1 2 3 4 5		• = 600 volts All wire combinations are 600 volt UL Listed when using conductors with insulation thickness								
18 SOL	1 2 3 4 5			such as TW and THHN. UL Listed single wire terminations: No: 10, 12 and 14 AWG							
16 STR	1 2 3 4						All wire combinations are 600 volts CSA Certified				
16 SOL	1 2 3 4										
14 STR	1 2 3 4									1.41	• • •
14 SOL	1 2 3 4	• • • □						How to read this chart: Example 1: 1 No. 12 str. + 4 No. 14 sol. (5)			
12 STR	1 2 3 4	• • • • • • □	• • • • • • □ • •	•••	• • • •				+ 4 110. 1		nple 2:
12 SOL	1 2 3 4	• • • • • • □	• • • • • • □	• • • • • • •	• • • • • • •					1 No	10 sol. No. 10 str. (3)
10 STR	1 2	••	••	•••	•••	•••	••	•			/
10 SOL	1 2	••	••	•••	•••	••	••	•	•	• •	• •
		1234	1234	1234	1234	1234	1234	1234	1234	12	12
		18 STR	18 SOL	16 STR	16 SOL	14 STR	14 SOL	12 STR	12 SOL	10 STR	10 SOL

Installation Instructions

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

Cross Section Capacity Conductor Combinations Quantity Size Туре Minimum Maximum 5-6 5,0mm² 16,0mm² 1,0mm² sol/str 4-6 1,5mm² sol/str 2-5 2,5mm² sol/str 4,0mm² 2-4 sol/str 2 6,0mm² sol/str

Copper Conductors Only

Only AWG combinations are UL Listed or CSA Certified.

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