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3M R/Y+BOX

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Distributor of 3M: Excellent Integrated System Limited

Datasheet of R/Y+BOX - CONN WIRENUT 8-22AWG RED/YELLOW

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R/Y+ Wire Connector

Data Sheet









Application

Use a 3M[™] R/Y + Wire Connector to electrically connect two or more conductor ends in a pigtail application and insulate the connection.

Wire

AWG Range

COPPER conductors only, No. 22 thru No. 8 sol. and/or str.

METRIC Range

COPPER conductors only, 0,5 mm² thru 6,0 mm² ridged (solid or stranded) and flexible.

(see wire matrix for specific wire combinations)

Construction

Spring

Spring steel, corrosion resistant coating Insulator

Flame retardant, polypropylene and thermoplastic elastomer, color coded red/yellow

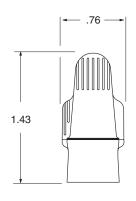
Weight

.0071 lbs. (3,21 g)

Performance Test

The following tests were performed to the specification of UL Standard 486C and CSA Standard C22.2 No. 188–M1983.

Static-Heating	Pass
Secureness	Pass
Pullout	Pass
Dielectric Voltage Withstand	Pass
Secureness-Of-Insulation	Pass
Flammability	Pass



Other Tests:

Per MIL–STD–1344A Method 1001.1Vibration Pass Per MIL–STD–1344A Method 2005.1UV Exposure Pass Per ASTM G–53–77 Salt Spray Pass

Fluid Immersion Test

Connectors were immersed in the following chemicals for seven days at 23°C ± 2°C with no affect on appearance or loss of material strength.

Typical Reagents and Materials From ASTM D 543–87 and MIL–STD–1344A

Acetic Acid

Acetone

Detergent Solution, Heavy Duty Ethyl Alcohol (95%)

Ethyl Alcohol (50%)

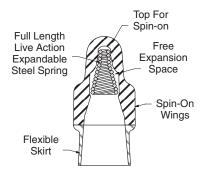
Heptane

Hydrogen Peroxide Solution 28%

Methyl Alcohol

Sodium Hydroxide Solution

Mineral Spirit Lubricating Oil



Engineering Specification

3M R/Y+ wire connector is capable of connecting two or more wires in a pigtail application, in the wire range of No. 22 thru No. 8 AWG solid and/or stranded copper conductors. The connector shall be constructed of an active (live) spring. With a corrosion resistant coating. The connector shall be UL LISTED and CSA Certified as a pressure wire connector. The connector shall be voltage rated 600 volts maximum, building wire, 1000 volts maximum, signs and lighting fixtures (luminaries). The connector shall have a maximum operating temperature of 105°C (221°F).

Regulatory Agencies

UL Listed

as a Pressure Wire 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 lighting fixtures (luminaries)

FLAMMABILITY RATING:

UL94 V-2



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CSA Certified

CSA Standard C22.2 No. 188-M1983 CSA File No. LR15503 OPERATING TEMPERATURE:

105°C (221°F) VOLTAGE RATING:

600 volts max. building wire

1000 volts max. signs, lighting fixtures and luminaries

FLAMMABILITY RATING:

C22.2 No. 0.6 V-2

Federal Specification W-S-610

"Commercial package Only"

1 2 3 4 5 6

22 STR or SOL

R/Y+

1 2 3 4 5 6

20 STR or SOL 1 2 3 4 5 6

18 STR 1 2 3 4 5 6

18 SOL

Type Class Kind Style1 1 cu G

Metric Wire Combination							
Cross section capacity	2,0 mm ² through 16,0 mm ²						
Conductor combinations	Quantity	Size	Type				
	5 - 7	0,5 mm ²	sol./str.				
	3 - 7	0,75 mm ²	sol./str.				
	2 - 8	1,0 mm ²	sol./str.				
	2 - 7	1,5 mm ²	sol./str.				
	2 - 5	2,5 mm ²	sol./str.				
	2 - 4	4,0 mm ²	sol./str.				
	2	6,0 mm ²	sol./str.				
* Only AWG wire size combinations are UL LISTED or CSA Certified.							

22 SOL	1 2	•••	Installation Instructions													
or STR	3 4 5	•••••		CAUTION: Turn power off before installing or removing connector. All electrical work should be done												
20 SOL or	1 2 3			according to appropriate electrical codes.												
STR	4 5	******	******	1. Strip wire insulation 3/4" (19,0 mm).												
18 STR	1 2 3 4 5 6						Firmly grasp wires, making sure insulation ends are even and tightly bundled. (Wires may be twisted or untwisted.) Lead stranded wires slightly. Slip the									
18	1 2 3	•••	••••				connector over wire tips.									
SOL	4 5 6	•	•••				3. Turn connector onto wires in clockwise direction until secure.									
16 STR	1 2 3 4 5 6	••••							maximum							
16 SOL	1 2 3 4 5 6	••••					1000 volts maximum in signs, lighting fixtures and luminaries									
14 STR	1 2 3 4 5 6	••••	••••			•••										
14 SOL	1 2 3 4 5 6															
12 STR	1 2 3 4															
12 SOL	1 2 3 4									::-	:::					
10 STR	1 2 3					****	****	***	****	••	***	••				
10 SOL	1					****	****	****	••••	***	***	••	:•			
8 STR	1 2									•••	•••	•	••	•		

1 2 3 4 5 6

16 STR 1 2 3 4 5 6

16 SOL 1 2 3 4 5

14 STR 1 2 3 4 5

14 SOL 1 2 3 4

12 STR 1 2 3 4

1 2

1 2 3

8 STR



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Underwriters Laboratories Standard NO. UL 486C 3M File NO. E23438



Canadian Standards Association Standard NO. 22.2 NO. 188–M1983 3M File NO. LR15503



IEC Publications 685–1 and 685–2–4 3M File NO. E95240



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