



Wire Connector R/Y⁺

Data Sheet

Application

Use 3M™ Wire Connector R/Y⁺ 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

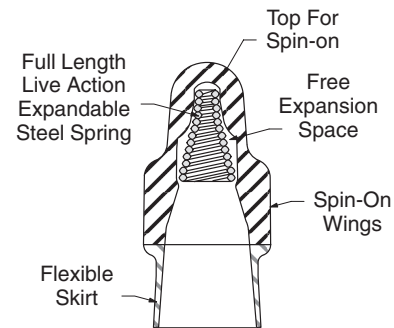
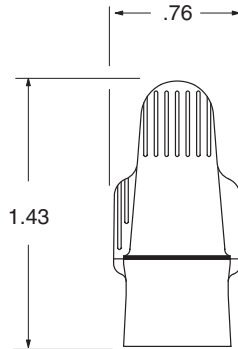
Weight

.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



Fluid Immersion Test

Connectors were immersed in the following chemicals for seven days at 23° C ± 2C with no effect 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 connectors are 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, for building wire, 1000 volts maximum, for signs and lighting fixtures (luminaires). 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 (luminaires).

Flammability Rating: UL94 V-2

Type	Class	Kind	Style
1	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.			

Installation Instructions

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

- Strip wire insulation 3/4" (19,0 mm).
- Firmly grasp wires, making sure insulation ends are even and tightly bundled. (Wires may be twisted or untwisted.) Lead stranded wires slightly. Slip the connector over wire tips.
- Turn connector onto wires in clockwise direction until secure.

°C maximum
1000 volts maximum in signs, lighting fixtures and luminaries

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LISTED
314R

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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©3M2017 78-8121-1126-4 Rev B

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