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3M

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

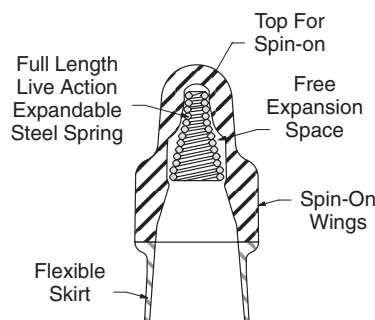
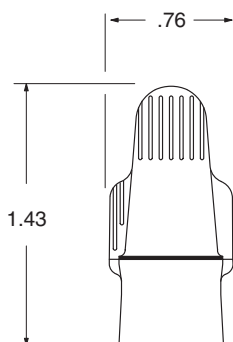
Weight

.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 1001.1 Vibration	Pass
Per MIL-STD-1344A Method 2005.1 UV 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 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 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



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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