



B/G⁺ Wire Connector



LISTED
314R



Data Sheet

Application

Use a 3M™ B/G⁺ 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. 14 thru No. 6 sol. and/or str.

METRIC Range

COPPER conductors only, 2,5 mm² thru 10,0 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 blue/gray

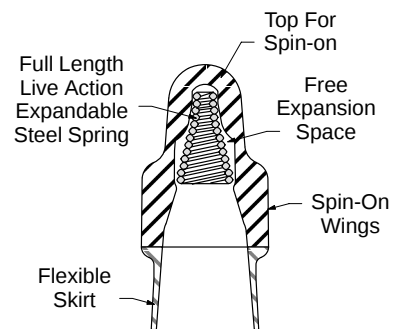
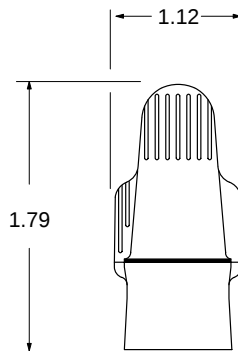
Weight

.0124 lbs. (5,647 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 Test

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

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 B/G⁺ wire connector is capable of connecting two or more wires in a pigtail application, in the wire range of No. 14 thru No. 6 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, 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, lighting fixtures (luminaries)

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 lighting
fixtures (luminaries)

FLAMMABILITY RATING:

C22.2 No. 0.6 V-2

Federal Specification W-S-610

“Commercial Package Only”

Type	Class	Kind	Style
1	1	cu	G

Metric Wire Combination

Cross section capacity	10,0 mm ² through 31,6 mm ²
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Conductor combinations	Quantity	Size	Type
	3 – 6	2,5 mm ²	sol./str.
	2 – 5	4,0 mm ²	sol./str.
	2 – 4	6,0 mm ²	sol./str.
	2	10,0 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.

1. Strip wire insulation 7/8" (22,2 mm).
2. 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.
3. Turn connector onto wires in clockwise direction until secure.
4. To remove, turn connector counter-clockwise.

14 STR	1																														
	2																														
	3																														
	4																														
14 SOL	1																														
	2																														
	3																														
	4																														
12 STR	1																														
	2																														
	3																														
	4																														
	5																														
12 SOL	1																														
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	4																														
	5																														
10 STR	1																														
	2																														
	3																														
10 SOL	1																														
	2																														
	3																														
8 STR	1																														
	2																														
6 STR	1																														
	2																														
B/G+	1	2	3	4	1	2	3	4	1	2	3	1	2	3	1	2	1														
	14 STR				14 SOL				12 STR				12 SOL				10 STR				10 SOL				8 STR				6 STR		

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UL LISTED as a Pressure Wire Connector. CSA Certified. Copper colored.

Operating Temperature: 105°C maximum

Voltage Rating 600 volts maximum in building wire
1000 volts maximum in signs and light fixtures

UL LISTED as a Pressure Wire Connector. CSA Certified. Copper conductors only.

Operating Temperature: 105°C maximum

Voltage Rating 600 volts maximum in building wire
1000 volts maximum in signs and lighting fixtures (luminaries)



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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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