



# Wire Connector B/G<sup>+</sup>

## Data Sheet

### Application

Use 3M™ Wire Connectors B/G<sup>+</sup> 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 mm<sup>2</sup> thru 10,0 mm<sup>2</sup> 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

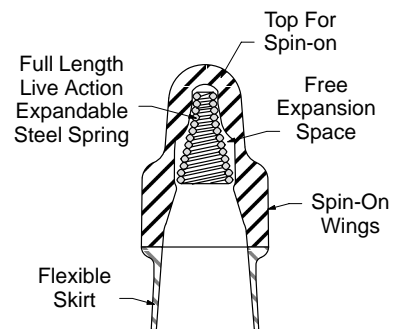
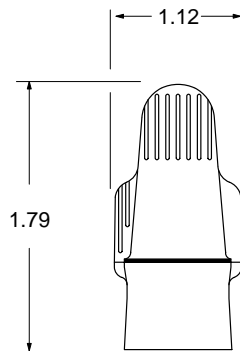
### Weight

.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



### 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 B/G<sup>+</sup> wire connectors are 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, for building wire, 1000 volts maximum, for signs, 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., for building wire  
1000 volts max., for signs, lighting fixtures (luminaires).

**Flammability Rating:** UL94 V-2





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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