

# 3M™ Secure Grip Wire Connector SG-B

## Data Sheet

March 2019

### Applications

3M™ Secure Grip Wire Connector SG-B will electrically connect and insulate copper conductors in a pigtail application. The connector has a live spring for strong reliable connections.

AWG Range: Copper conductors only, No. 14AWG through 6AWG solid and/or stranded.  
(See wire matrix for specific combinations)

Metric Range: Copper conductors only, 2.5mm<sup>2</sup> thru 10.0mm<sup>2</sup> (solid and/or stranded). Only AWG sizes are UL Listed.

### Agency Approvals & Self Certifications

- UL Listed as a Wire Connector
- Tested per UL Standard 486C, UL File No. E23438
- For RoHS and REACH information, please visit [www.3M.com/regs](http://www.3M.com/regs)

### Specifications

3M™ Secure Grip Wire Connector SG-B is capable of a 2 or more conductor connection in a pigtail application. The connector shall be UL Listed and be rated 600 volts maximum for building wire and 1000 volts maximum for lighting fixtures. The connector shall have a maximum operating temperature of 105°C (221°F).

#### Construction:

Spring: Spring steel, corrosion-resistant coating

Insulator: Blue Polypropylene

Weight: 0.015 lbs. (6.86 grams)

**Performance Test** The following tests were conducted to the specifications of UL Standard 486C

Static Heating	Pass
Secureness	Pass
Pullout	Pass
Dielectric Voltage Withstand	Pass
Secureness of Insulation	Pass
Flammability	V2 Min.

# 3M™ Secure Grip Wire Connector SG-B

### 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 5/8 inch.
2. Firmly grasp wires and ensure conductor ends are even. Conductors may be twisted or untwisted.
3. Place connector over the stripped conductor tips.
4. Turn connector on in a clockwise direction until secure.
5. To remove, turn connector counter-clockwise.

### Combination Chart:

The diagram shows a 6x6 grid of 36 AWG wires. The grid is divided into six 6x6 sections, each representing a different wire gauge: 14 AWG, 12 AWG, 10 AWG, 8 AWG, 6 AWG STR, and SG-B. A blue arrow points to the 6th wire in the 10 AWG section, with the text "Read across then down 3 + 3 = 6 #10AWG".

	1	2	3	4	5
14 AWG					
12 AWG					
10 AWG					
8 AWG					
6 AWG STR					
SG-B					

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<b>Shelf Life &amp; Storage</b>	The 3M™ Secure Grip Wire Connector SG-B has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).
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<b>Availability</b>	From your local distributor; or from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.
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