



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Electrical Spring Connector 412

Data Sheet



Application

The 3M™ Electrical Spring Connector 412 will electrically connect copper conductors in a pigtail application.

Wire

AWG Range

Copper conductors only, No. 22 through 8 solid and/or stranded.
(See wire matrix for specific combinations)

Metric Range

Copper conductors only, .5mm² thru 6mm² ridged (solid or stranded).

Construction

Spring - Spring steel, corrosion-resistant coating
Insulator - PVC

Weight

0.0068 lbs (3,1 grams)

Performance Test

The following tests were performed to the specifications of UL Standard 486C and CSA Standard C22.2 No. 188.

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

Engineering Specification

3M Spring Connector 412 is capable of a 1 conductor termination or a 2 or more conductor connection in a pigtail application. The connector shall be UL listed and CSA certified as a pressure wire connector. The connector shall 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).

Installation Instructions

Caution

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

1. Strip wire insulation ½ 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.

Regulatory Agencies

UL Listed as a 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 fixtures.

CSA Certified
CSA Standard C22.2 No. 188, CSA File No. LR15503
Operating Temperature: 105°C (221°F)
Voltage Rating: 600 volts max building wire, 1000 volts max signs and fixtures.

