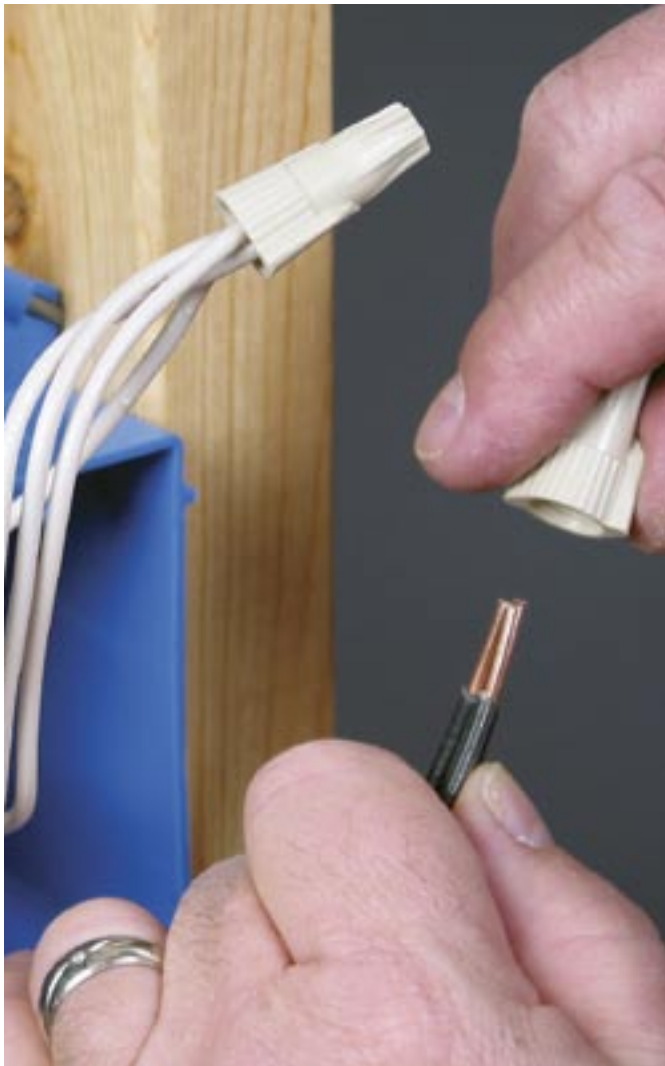


*Introducing...*

# 3M™ Wire Connector 412

Takes four #12 *solid & stranded* copper wires



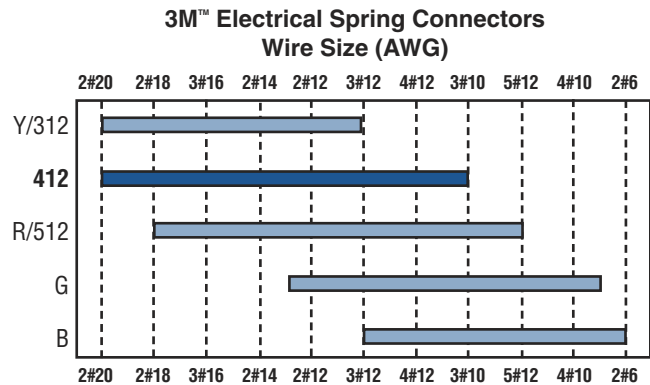
Introducing the new 412 spring connector from 3M. The 412 connector is the latest connector offered by 3M in response to the requests of our customers. What makes the 412 different from other tan connectors with hexagon shaped heads?

- A wider spring opening enables easier and faster insertion of larger wire combinations than with other tan connectors.
- The 412 is UL listed for up to four 12 awg *solid and stranded* wires.
- The 412 molded insulator resists warping and expansion when pushed to the upper limits of its wire ranges.

A quick-biting spring, broad wire range, comfortable feel, a family of products to meet all your wire connecting needs; all while providing the quality, reliability and durability you've come to expect from 3M.

### 412 Connector

- Broad wire range
- Hexagon shaped head fits 5/16" socket
- Compatible with existing application tools (WCD-P and WCD-H)
- Quick-biting spring
- Easy application and back-off



For complete wire combination matrix and voltage ratings, contact Customer Service at 800-245-3573 (USA).

Description	UPC	Package Quantity
412 Tan hex-head spring connector (bag)	0-00-51128-54452-5	500 conn/bag, 20 bags/case
412 Tan hex-head spring connector (box)	0-00-51128-54451-8	100 conn/box, 10 boxes/case
412 Tan hex-head spring connector (keg)	0-00-51128-54453-2	20,000 conn/keg

## Application

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

## Wire

### AWG Range

Copper conductors only, No. 22 through 8 sol and/or str. (See wire matrix on data sheet for specific combinations).

### Metric Range

Copper conductors only. .5mm<sup>2</sup> thru 6mm<sup>2</sup> ridged (solid or stranded).

## Construction

**Spring** - Spring steel, corrosion-resistant coating.

**Insulator** - PVC.

## 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 1/2 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.

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## Important Notice

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

### Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture as of the time of purchase. **3M MAKES NO OTHER WARRANTIES**

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If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.

**Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**



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