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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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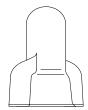
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Insulated Electrical Spring Connector 312



Data Sheet

Application:

Use a 312 connector to electrically connect two or more wire ends in a pigtail application and insulate the connection, or to insulate a single wire end.

Wire Range:

AWG Range

COPPER conductors only, No. 22 thru No. 10 solid or stranded wire.

METRIC Range

COPPER conductors only, 0.75 mm² thru 4,0 mm² rigid (solid or stranded) and flexible.

(See wire matrix for specific wire combinations.)

Construction:

Spring -Spring steel, Corrosion resistant coating Insulator -Flame retardant nylon, Color-Yellow

Weight:

0.004 lb. (1.8 gm)

Abbreviations:

UL: Underwriters Laboratories AWG: American Wire Gauge

CU: Copper sol.: solid, str.: stranded, mm: millimeters,

mm²: square millimeters,

°C: degrees Celsius, °F: degrees Fahrenheit, gm: gram,

lb.: pound

Engineering Specification:

Electrical Spring Connector (3MTM part No. 312) shall be capable of connecting wires within the range of No. 22 thru No. 10 solid or stranded copper conductors, in a pigtail application. The connector shall constructed of an active (live) spring and covered by a nylon insulator. The spring shall have a corrosion resistant coating. The connector shall be UL Listed as a pressure cable connector, and be CSA Certified. The connector shall be voltage rated 600 volts maximum, building wire, 1000 volts maximum, signs, fixtures and luminaries. The connector shall have a maximum operating temperature of 105°C.

Regulatory Agencies:

U.L. Listed — as a Pressure Cable Connector Tested per UL Standard 486C U.L. File No. E23438



LISTED 540H



Canadian Standards Association Standard NO. 22.2 NO. 188-M1983 3M File NO. LR15503



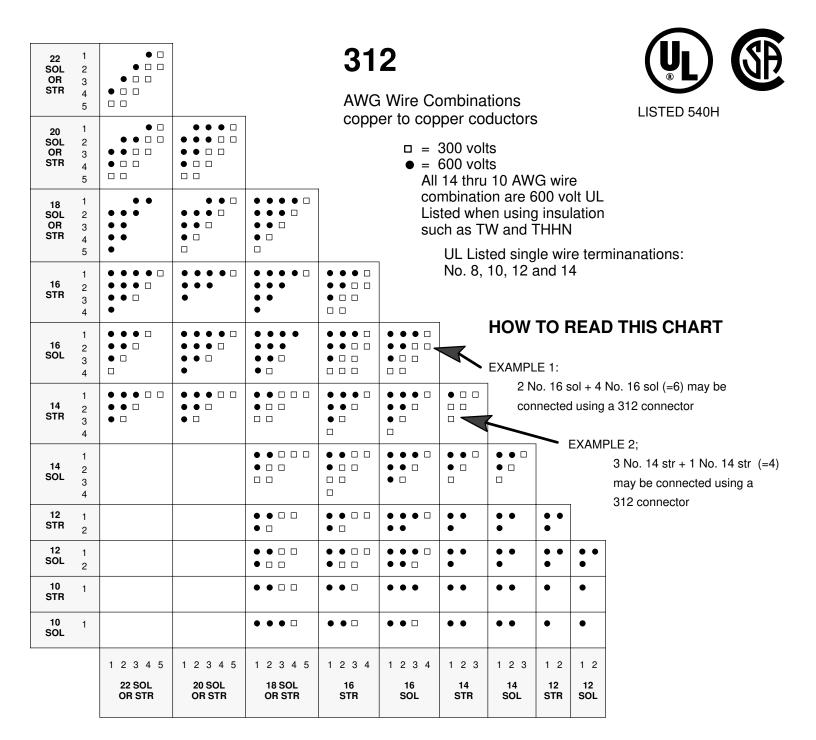
IEC Publications 685-1 and 685-2-4 3M File NO. E95240

OPERATING TEMPERATURE: 105°C (221°F) VOLTAGE RATING: 600 volts maximum building wire; 1000 volts maximum in signs and lighting fixtures (luminaries).

Federal Specification W–S–610:

Commercial Package Only

Туре	Class	Kind	Style
1	1	cu	G



Installation Instructions:



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

- 1. Strip wire insulation to length specified in , according to size
- **2.** Firmly grasp wires, making sure insulation ends are even and tightly bundled (wires may be twisted or untwisted). Slip connector over wire.

- **3.** Turn connector onto wires in a clockwise direction until secure.
- **4.** To remove, turn connector counter-clockwise.

Conductor Size	Strip Length	
22 –16 AWG	5/8"	
(0,75 – 1,5 mm ²)	(15,9 mm)	
14 – 8 AWG	1/2"	
(2,5 – 4,0 mm ²)	(12,7 mm)	

Metric Wire Combinations

International Electrotechnical Commission

Rated Capacity: 1,5 – 10,0 mm Voltage rating: 600 volts maximum

Reusability: Reusable for same capacity or larger

Wire Type: Copper only

See installation instructions for conductor strip lengths

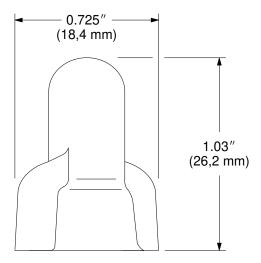
I.E.C. Metric Wire Matrix:

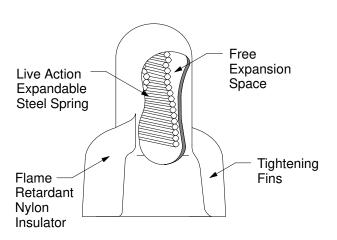
Twist-on connecting devices for the combination of rigid (solid or stranded) and flexible conductors.

MAT
WEST

Conductor Size	Quantity
0,75 mm ²	2 – 6
1,0 mm ²	2 – 6
1,5 mm ²	2 – 6
2,5 mm ²	2 – 4
4,0 mm ²	2

NOTE: Only AWG wire combinations are UL Listed





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