

3M Worldwide : United States : Electronics Manufacturing

- Solutions for Electronic Specialty Markets (ESM)
 - Product Catalog for Electronic Specialty Markets
 - 3M™ Electronic
 Specialty Markets New
 Product Releases
 - 3M™ Abrasives
 - 3M™ Adhesives,
 Cleaners & Compounds
 - 3M™ Breadboards & Test Clips
 - 3M™ Cable & Assemblies
 - 3M™ Copper Interconnects
 - 3M™ Fiber Optics
 - 3M™ Fire Protection
 - 3M™ Heat Shrink
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 - 3M™ Tapes
 - 3M™ Terminals, Kits & Tools
 - 3M™ Vacuums & Accessories
 - 3M™ Warehousing & Packaging Supplies
 - 3M™ Wire Connectors

Other Tools

- What's New
- Sales Contacts
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Product Catalog for Electronic Specialty Markets ➤ 3M™ Wire Connectors ➤ 3M™ Spring Connectors and Tools ➤ 3M™ Wire Connector, T/Y+

Printer-friendly format 3M™ Performance Plus Wire Connector T/Y+, 500/

Jug



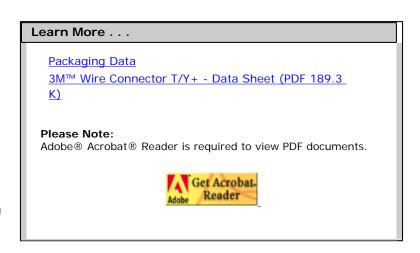
The 3M™ Wire Connector T/Y+ is 3M's latest solution to meet the needs of today's electrical contractors. Very small and able to fit into tight spaces, the T/Y+ wire connector has an incredibly broad wire range accommodating from two #22 awg copper wires to three #12 awg solid copper wires. A flexible skirt provides protection from over stripped wires.

[click to enlarge]

GTIN(UPC/EAN): 0 00 51128 55219 3

3M Id: 80-6112-6540-8

Additional Information



Characteristics

Agency Approvals	UL and CSA
China RoHS - Below MCV	Yes
Color	Tan/Yellow
EU RoHS Compliant	Yes
Maximum Recommended Voltage Rating	600 Volt
Units per Box	500
Wire Range Capabilities	22 to 12

3MWire Connector T/Y+

Data Sheet





CONNECTOR LISTED

Application

Use a 3MTM Wire Connector T/Y+ to electrically connect two or more conductor ends in a pigtail application and insulate the connection.

Wire

AWG Range

COPPER conductors only, No. 22 thru No. 12 solid and/or stranded

METRIC Range

COPPER conductors only, 0,5 mm² thru 2,5 mm² 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 tan/yellow

Weight

0.0025 lbs. (1,13 gm)

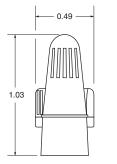
Performance Test

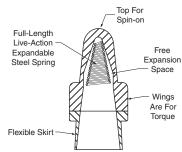
The following tests were performed to the specifications of UL Standard 486C and CSA Standard C22.2 No. 188-M1983.

Static-Heating	Pass
Secureness	Pass
Pullout	Pass

Dielectric Voltage Withstand Pass
Secureness-Of-Insulation Pass

Flammability Pass





Other Test

Salt Spray	Pass
Per MIL-STS-1344A Method 1001.1	
Vibration	Pass
Per MIL-STS-1344A Method 2005.1	
UV Exposure	Pass
Per ASTM G-53-77	

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

3MTM Wire Connector T/Y+ is capable of connecting two or more wires in a pigtail application, in the wire range of No. 22 thru No. 12 AWG solid and/or stranded copper conductors. The connector shall be constructed with an active (live) spring with a corrosion resistant coating. The connector shall be UL LISTED as a pressure wire connector. The connector shall be voltage rated 600 volts maximum, building wire, 1000 volts maximum, signs and lighting fixtures (luminaries). 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. building wire

1000 volts max. signs and lighting fixtures (luminaries)

Flammability Rating: UL94 V-2

Federal Specification W-S-610

"Commercial Package Only"

Туре	Class	Kind	Style
1	1	cu	G

Installation Instructions

A CAUTION

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

- 1. Strip wire insulation: 22–16 AWG = 5/8" 14–12 AWG = 1/2"
- Firmly grasp wires, making sure insulation ends are even and tightly bundled. (Wires may be twisted or untwisted.) Lead stranded wires slightly. Slip the connector over wire tips.
- Turn connector onto wires in clockwise direction until secure.
- 4. To remove, turn connector counter-clockwise.

Wire Matrix Metric Wire Combination Cross Section Capacity 1,0 mm² through 5,0 mm² **Conductor Combinations** Quantity Size Type 2-6 0,5 mm² sol./str. STR 2-5 0,75 mm² sol./str. 2-4 1,0 mm² sol./str. 2-4 1,5 mm² sol./str. 3 2,5 mm² sol. SOL *Only AWG wire size combinations are UL LISTED. 20 STR LISTED 20 SOL Underwriters Laboratories Standard NO. UL 486C 3M File NO. E23438 18 STR 18 SOL 16 STR SOL 14 STR ••• 14 SOL • • STR 12 • • ••• SOL 1 2 3 4 5 1 2 3 4 5

1 2 3 4

18

STR

20 SOL

20

STR

1 2 3 4

22 STR

1 2 3

16

1 2 3

16

1 2

14

1 2

14

SOL

12

1

12

SOL

1 2 3 4 5 6

22 STR

T/Y+

1 2 3 4 5 6

22 SOL