Application
Use a 3M™ 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 Pass
Vibration Pass
Per MIL-STS-1344A Method 2005.1 Pass
UV Exposure Pass
Per ASTM G-53-77 Pass

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

3M™ 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”

<table>
<thead>
<tr>
<th>Type</th>
<th>Class</th>
<th>Kind</th>
<th>Style</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>cu</td>
<td>G</td>
</tr>
</tbody>
</table>

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:
   22–16 AWG = 5/8”  14–12 AWG = 1/2”
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.
3. Turn connector onto wires in clockwise direction until secure.
4. To remove, turn connector counter-clockwise.
## Wire Matrix

<table>
<thead>
<tr>
<th>Conductor Combinations</th>
<th>Quantity</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2–6</td>
<td>0,5 mm²</td>
<td>sol./str.</td>
<td></td>
</tr>
<tr>
<td>2–5</td>
<td>0,75 mm²</td>
<td>sol./str.</td>
<td></td>
</tr>
<tr>
<td>2–4</td>
<td>1,0 mm²</td>
<td>sol./str.</td>
<td></td>
</tr>
<tr>
<td>2–4</td>
<td>1,5 mm²</td>
<td>sol./str.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2,5 mm²</td>
<td>sol.</td>
<td></td>
</tr>
</tbody>
</table>

*Only AWG wire size combinations are UL LISTED.*

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![UL LISTED 314R](image)

Underwriters Laboratories
Standard NO. UL 486C
3M File NO. E23438

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**Metric Wire Combination**

<table>
<thead>
<tr>
<th>Cross Section Capacity</th>
<th>1,0 mm² through 5,0 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>conductor combinations</td>
<td>quantity</td>
</tr>
<tr>
<td>2–6</td>
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</tr>
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</tr>
<tr>
<td>3</td>
<td>2,5 mm²</td>
</tr>
</tbody>
</table>

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