Wire-to-Wire Connectors
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Wire-to-Wire Connectors

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**Poke-Home**

**Thru-Wire Connectors 18-26 AWG: 00-9286**

**General Information**

Wire-to-Wire connectors have been used in the industrial market for years with traditional 2-Piece (plug and socket) connector systems which require crimp and poke wire terminations to connect electrical or electronic components. In the general wiring market (2-3 wires) there are a number of connector styles available, however, they are limited in sizes, expanded wire gauges and the ability to reuse them when repair or replacement is needed. Based on the existing success of “Poke-Home” wire-to-board connectors, AVX has developed a new family of wire-to-wire connectors to meet the cost, flexibility and ease-of-use targets in industrial wiring applications.

The 9286 series of Thru-Wire connectors provides a high spring force Beryllium Copper contact system that uses simple push button activation to insert and remove individual stripped wires in the connection process. There is a forward and aft shrouded (to prevent accidental activation) push button for each wire connection that can be operated individually or simultaneously with a simple plastic tool or ball point pen tip. Up to eight wires can be electrically connected in a single connector body which will support any combination of wire gauges from 18AWG up to 26 AWG. Wires can be removed or replaced up to 5 times so there is no need to replace the connector in a new installation.

**APPLICATIONS**

- Industrial/Machine Control; motors, solenoids, PLC’s, pumps, valves, sensors, fans...
- Commercial/Building; fixtures, fire, security, surveillance, blinds, sensors, controls...
- Commercial/Industrial LED; retail, office, manufacturing, signage, displays...
- Application notes; refer to 201-01-135

**FEATURES AND BENEFITS**

- High spring force top contact provides a lance type retention to capture and retain the wire
- Shrouded dual push button activation for easy wire insertion/removal
- Accepts 18-26AWG Solid and Stranded wires; any combination
- Expanded size offering to maximize application potential; 1, 2, 3, 4, 6 & 8 positions
- Optional mounting tape to secure in panel mounting applications
- Molded in position numbers and schematic for easy identification

**ELECTRICAL**

- Current Rating: 8 Amps / Contact
- Voltage Rating: 300 VAC

**ENVIRONMENTAL**

- Operating Temperature: -40°C to +125°C

**MECHANICAL**

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper / Phosphor Bronze
- Plating: Tin over Nickel
- Replacibility: 5 Cycles

**HOW TO ORDER**

```
Prefix | Series | Number of Ways | Wire Size | Color Options | Plating Option
00    | 9286   | 00X            | 021       | 9 = UL White  | 06 = Pure Tin
      |        | No of Ways     | Wire Gauge | Max Conductor | all over
      |        | Details        | Max Insulation |
001   | 1      | Page 3         | 18 to 26 AWG | 1.05mm Diameter | 2.10mm Diameter
002   | 2      | Page 4         |            |               |               
003   | 3      | Page 5         |            |               |               
004   | 4      | Page 6         |            |               |               
006   | 6      | Page 7         |            |               |               
008   | 8      | Page 8         |            |               |               
```

Certification: UL File #E90723

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18-26 AWG 1 WAY POKE-HOME – THRU WIRE

PACKING DETAILS
Pack 400 pieces in a clear plastic bag.

NOTES:
1. 1 WAY WIRE TO WIRE “POKE-HOME” CONNECTOR, BUTTON OPERATED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL 94 V-0. COLOR SEE PAGE 2.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
   FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
7. GENERAL TOLERANCE ±0.20MM.
8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
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18-26 AWG 2 WAY POKE-HOME – THRU WIRE

PACKING DETAILS
Pack 400 pieces in a clear plastic bag.

NOTES:
1. 2 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
   FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
7. GENERAL TOLERANCE ±0.20MM.
8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
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**Poke-Home**

**Thru-Wire Connectors 18-26 AWG: 00-9286**

3 Position

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**18-26 AWG 3 WAY POKE-HOME – THRU WIRE**

**NOTES:**
1. 3 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
7. FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
8. GENERAL TOLERANCE ±0.20MM.
10. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.

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**PACKING DETAILS**

Pack 400 pieces in a clear plastic bag.

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18-26 AWG 4 WAY POKE-HOME – THRU WIRE

NOTES:
1. 4 WAY WIRE TO WIRE “POKE-HOME” CONNECTOR, BUTTON OPERATED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/withdrawn independently.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL 94 V-0. COLOR SEE PAGE 2.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
   FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
7. GENERAL TOLERANCE ±0.20MM.
8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
Poke-Home
Thru-Wire Connectors 18-26 AWG: 00-9286
6 Position

18-26 AWG 6 WAY POKE-HOME – THRU WIRE

PACKING DETAILS
Pack 400 pieces in a clear plastic bag.

NOTES:
1. 6 WAY WIRE TO WIRE "POKE-HOME" CONNECTOR, BUTTON OPERATED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
   FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
7. GENERAL TOLERANCE ±0.20MM.
8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
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**Poke-Home**

**Thru-Wire Connectors 18-26 AWG: 00-9286**

8 Position

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**18-26 AWG 8 WAY POKE-HOME – THRU WIRE**

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**PACKING DETAILS**

Pack 400 pieces in a clear plastic bag.

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**NOTES:**

1. 8 WAY WIRE TO WIRE “POKE-HOME” CONNECTOR, BUTTON OPERATED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 2.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
   - FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
7. GENERAL TOLERANCE ±0.20MM.
8. WIRE STRIP LENGTH GUIDE, SEE PAGE 13.
9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 14.
10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
Wire-to-Wire connectors have been used in the industrial market for years with traditional 2-Piece (plug and socket) connector systems which require crimp and poke wire terminations to connect electrical or electronic components. In the general wiring market (2-3 wires) there are a number of connector styles available, however, they are limited in sizes, expanded wire gauges and the ability to reuse them when repair or replacement is needed. Based on the existing success of “Poke-Home” wire-to-board connectors, AVX has developed a new family of wire-to-wire connectors to meet the cost, flexibility and ease-of-use targets in industrial wiring applications.

The 9286 series of Junction Box connectors provide a high spring force Beryllium Copper contact system that uses simple push button activation to insert and remove individual stripped wires in the connection process. There is a forward and aft shrouded (to prevent accidental activation) push button for each wire connection that can be operated individually or simultaneously with a simple plastic tool or ball point pen tip. This connector family has been designed to bring a single wire in and then have multiple output (bus structure) wires of the same power or signal. Four, Six or Eight wires can be electrically connected together in a single connector body which will support any combination of wire gauges from 18AWG up to 26 AWG. Wires can be removed or replaced up to 5 times so there is no need to replace the connector in a new installation.

**APPLICATIONS**
- Industrial/Machine Control; motors, solenoids, PLC’s, pumps, valves, sensors, fans...
- Commercial/Building; fixtures, fire, security, surveillance, blinds, sensors, controls...
- Commercial/Industrial LED; retail, office, manufacturing, signage, displays...
- Application notes; refer to 201-01-135

**FEATURES AND BENEFITS**
- High spring force top contact provides a lance type retention to capture and retain the wire
- Shrouded dual push button activation for easy wire insertion/removal
- Accepts 18-26AWG Solid and Stranded wires; any combination
- Expanded size offering to maximize application potential; 4, 6 or 8 positions
- Optional mounting tape to secure in panel mounting applications
- Molded in position numbers and schematic for easy identification

**ELECTRICAL**
- Current Rating: 10 Amps total
- Voltage Rating: 300v AC

**ENVIRONMENTAL**
- Operating Temperature: -40ºC to +125ºC

**MECHANICAL**
- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper / Phosphor Bronze
- Plating: Tin over Nickel
- Replacibility: 5 Cycles

### HOW TO ORDER

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Series</th>
<th>Number of Ways</th>
<th>Code</th>
<th>Wire Gauge</th>
<th>Max Conductor</th>
<th>Max Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>9286</td>
<td>00X</td>
<td>004</td>
<td>18 to 26</td>
<td>1.05mm Diameter</td>
<td>2.10mm Diameter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>006</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>008</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Color Options: 9 = UL Red, 06 = Tin over Nickel

Certification: UL File #E90723
NOTES:
1. 4 WAY WIRE TO WIRE “POKE-HOME” CONNECTOR, BUTTON OPERATED. ALL TERMINALS INTERCONNECTED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 17.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
   FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
7. GENERAL TOLERANCE ±0.20MM.
8. WIRE STRIP LENGTH GUIDE, SEE PAGE 21.
9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 22.
10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
18-26 AWG 6 WAY POKE-HOME – JUNCTION BOX

NOTES:
1. 6 WAY WIRE TO WIRE “POKE-HOME” CONNECTOR, BUTTON OPERATED. ALL TERMINALS INTERCONNECTED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 17.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
   FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
7. GENERAL TOLERANCE ±0.20MM.
8. WIRE STRIP LENGTH GUIDE, SEE PAGE 21.
9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 22.
10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).

PACKING DETAILS
Pack 400 pieces in a clear plastic bag.
Poke-Home
Junction Box Connectors 18-26 AWG: 00-9286
8 Position

18-26 AWG 8 WAY POKE-HOME – JUNCTION BOX

PACKING DETAILS
Pack 400 pieces in a clear plastic bag.

NOTES:
1. 8 WAY WIRE TO WIRE “POKE-HOME” CONNECTOR, BUTTON OPERATED. ALL TERMINALS INTERCONNECTED.
2. WIRE SIZES 18-26 AWG, MAXIMUM INSULATION DIAMETER 2.10MM.
3. SPLIT BUTTON ALLOWS THE WIRES TO BE INSERTED/WITHDRAWN INDEPENDENTLY.
4. INSULATION MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR SEE PAGE 17.
5. CONTACT MATERIAL: TIN PLATED COPPER ALLOY.
6. FOR FULL SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-132.
   FOR APPLICATION NOTES REFER TO ELCO SPECIFICATION 201-01-135.
7. GENERAL TOLERANCE ±0.20MM.
8. WIRE STRIP LENGTH GUIDE, SEE PAGE 21.
9. ADHESIVE STRIP FOR PANEL MOUNTING REFER TO PAGE 22.
10. FOR UL PRODUCT CODES UL REFERENCE E90723 (US AND CANADA).
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Poke-Home Junction Box: Wire Insertion/Removal Process

POKE-HOME BUTTON ACTIVATION TOOL

SINGLE BUTTON OPERATION

SIMULTANEOUS BUTTON OPERATION

TRIMMED WIRE

9286 BUTTON ACTIVATION TOOL
06-9286-7001-01-000

NOTES:
1. TOOL IS DOUBLE ENDED, END 1 ACTIVATES SINGLE BUTTON. END 2 FOR SIMULTANEOUS BUTTON ACTIVATION.
2. WIRE WHEN TRIMMED TO BE STRAIGHT WITH NO BURRS.
3. FOR FULL ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-135.
4. SUPPLIED IN PACKS OF 100 PIECES.
08-9286-400X-00-000 ADHESIVE MOUNTING TAPE
ACCESSORY NOT SUPPLIED WITH CONNECTORS

NOTES:
1. DOUBLE SIDED FOAM FILLED ADHESIVE TAPE.
2. WIDTH FOR 1 WAY, 2 WAY, 3 WAY AND 6 WAY CONNECTORS, FOR LENGTH SEE TABLE.
3. USED FOR ADHERE A 9286 CONNECTOR TO A FLAT SURFACE.
4. SOME SURFACES MAY REQUIRE THE USE OF A CLEANING SOLVENT TO ACHIEVE BEST RESULTS.
5. SUPPLIED CUT TO SIZE ON A REEL ON AN OVERSIZE BACKING STRIP PARTS 400 PER REEL.
Reduced Thru Wire Connector
18-24 AWG: 9286-200

General Information

Wire-to-Wire (WTW) connectors have been used in the industrial market for years with traditional 2-Piece (plug & socket) connector systems. These require crimp and poke wire terminations to connect discrete wires together. While these provide repeated pluggability and latching, they are often size and cost prohibited in applications where the wires may only need to be replaced once or twice during their life.

The reduced 9286-200 series of thru wire connectors expands on the already proven 9286 poke-home discrete WTW family of connectors, but in a smaller package size. The development of an active stainless steel spring contact eliminates the need for push button activation to insert and remove wires which offers a significant cost savings. The mechanical properties of this contact provide maximum wire retention across a broad range of solid and stranded wire gauges, making this connector very versatile in field installations.

APPLICATIONS

- Industrial Machine Controls; motors, drives, solenoids, sensors, fans, pumps, etc...
- Commercial Buildings; controls, security, fire and sensors
- Smart Grid; meters, breakers and panels
- SSL/LED; fixtures, signage and streetlights
- Application notes; refer to 201-01-17

FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with twist and pull wire extraction
- High spring force stainless steel contact maximizes cost, strength and flexibility
- Accepts 18-24 AWG solid and stranded wires
- Expanded size offering to cover multiple power and signal applications: 1p-6p

ELECTRICAL

- Voltage Rating: 300 VAC
- Current Rating: See matrix below

ENVIRONMENTAL

- Operating Temperature: -40ºC to +130ºC

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Fixed Contact Material: Copper Alloy
- Flexing Contact: Stainless Steel
- Fixed Contact Plating; Tin over Nickel
- Durability: 5 Cycles

HOW TO ORDER

Prefix     | 9286 | 00X | 203 | X | X | 06
---|---|---|---|---|---|---
Code       | Type | Details | Wire Size | Insulator Color | Internal Wire Stop and UL Approval |
00         | Poke Home | Wire-to-Wire | Code | Wire Gauge | Max Insulation | Code | Housing Color | Availability |
001        | 1     | 4.0/4.5 | 203 | 18 - 24 AWG | 2.10mm DIA. | 9   | White | Standard |
002        | 2     | 8.0/8.5 |
003        | 3     | 12.0/12.5 |
004        | 4     | 16.0/16.5 |
005        | 5     | 20.0/20.5 |
006        | 6     | 24.0/24.5 |

CURRENT RATING

<table>
<thead>
<tr>
<th>Wire gauge</th>
<th>Maximum approved current (amps)</th>
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<tr>
<td>Code</td>
<td>UL (USA)</td>
</tr>
<tr>
<td>18AWG</td>
<td>8</td>
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<tr>
<td>20AWG</td>
<td>6</td>
</tr>
<tr>
<td>22AWG</td>
<td>5</td>
</tr>
<tr>
<td>24AWG</td>
<td>3</td>
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UL File #E90723

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Reduced Thru Wire Connector
18-24 AWG: 9686-200

NOTES:
1. WIRE-TO-WIRE POKE HOME CONNECTOR. AVAILABLE WITH OR WITHOUT INTERNAL WIRE STOP.
2. WIRE CONDUCTOR SIZES 18-24AWG (SOLID OR STRANDED). MAXIMUM INSULATION 2.10MM DIAMETER.
3. HOUSING MATERIAL: GLASS-FILLED STANYL 46, UL94V-0. COLOR PER P.N. CODE AT LEFT.
4. FIXED CONTACT: TIN PLATED COPPER ALLOY.
5. FLEXING CONTACT: STAINLESS STEEL.
6. PACKAGING TO BE IN BULK; 1,000 PARTS PER BAG.
7. FOR FURTHER DETAILS, REFER TO SPECIFICATION 201-01-171 AND APPLICATION NOTES 201-01-172.
8. UL APPROVED. UL REFERENCE E90723 (US AND CANADA).

Wire Stripping Guidelines

<table>
<thead>
<tr>
<th>Insulation Diameter</th>
<th>Strip Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;=2.10mm</td>
<td>4.0 ± 0.5</td>
</tr>
<tr>
<td>&gt;2.10mm (NOTE 7)</td>
<td>7.0 ± 0.5</td>
</tr>
</tbody>
</table>
Reduced Thru Wire Connector
18-24 AWG: 9686-200

Wire Trim

**POKE HOME – THRU WIRE**

**WIRE TRIM**

<table>
<thead>
<tr>
<th>Insulation Diameter</th>
<th>Wire Trim Length X</th>
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</thead>
<tbody>
<tr>
<td>Up to 2.10 Diameter</td>
<td>4.00 ± 0.50</td>
</tr>
<tr>
<td>Above 2.10mm Diameter See Application Notes 201-01-172</td>
<td>7.00 ± 0.50</td>
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</tbody>
</table>

**REST POSITION OF CONTACT TIP**

**POKE HOME – THRU WIRE**

**ASSEMBLY**

For full assembly details refer to application note 201-01-172
Wire-to-Wire (WTW) connectors have been used in the industrial market for years with traditional 2-Piece (plug & socket) connector systems. These require crimp and poke wire terminations to connect discrete wires together. While these provide repeated pluggability and latching, they are often size and cost prohibited in applications where the wires may only need to be replaced once or twice during their life.

The reduced 9286-250 series of junction connectors expands on the already proven 9286 poke-home discrete WTW family of connectors, but in a smaller package size. Junction box connectors electrically connect each of the inserted wires together, similar to a branch or splitter application but with multiple outputs. The development of an active stainless steel spring contact eliminates the need for push button activation to insert and remove wires which offers a significant cost savings. The mechanical properties of this contact provide maximum wire retention across a broad range of solid and stranded wire gauges, making this connector very versatile in field installations.

Applications
- Industrial Machine Controls; motors, drives, solenoids, sensors, fans, pumps, etc.
- Commercial Buildings; controls, security, fire and sensors
- Smart Grid; meters, breakers and panels
- SSL/LED; fixtures, signage and streetlights
- Application notes; refer to 201-01-172

Features and Benefits
- Simple strip and poke-home wire insertion with twist and pull wire extraction
- High spring force stainless steel contact maximizes cost, strength and flexibility
- Accepts 18-24 AWG solid and stranded wires
- Expanded size offering to allow up to 8 wires to be connected together

Electrical
- Voltage Rating: 300 VAC
- Current Rating: See matrix below

Environmental
- Operating Temperature: -40°C to +130°C

Mechanical
- Insulator Material; Glass-Filled Nylon 46; UL94V0
- Fixed Contact Material; Copper Alloy
- Flexing Contact; Stainless Steel
- Fixed Contact Plating; Tin over Nickel
- Durability; 5 Cycles

How to Order

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Poke Home</td>
<td>Wire-to-Wire</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>No of Ways</th>
<th>DIM. A</th>
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</thead>
<tbody>
<tr>
<td>004</td>
<td>4</td>
<td>8.0/8.5</td>
</tr>
<tr>
<td>006</td>
<td>6</td>
<td>12.0/12.5</td>
</tr>
<tr>
<td>008</td>
<td>8</td>
<td>16.0/16.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Wire Size</th>
<th>Wire Gauge</th>
<th>Max Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>253</td>
<td>18 – 24 AWG Solid or Stranded</td>
<td>2.10mm Diameter</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Insulator Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard 9 = UL White</td>
</tr>
<tr>
<td>Special Order Only</td>
</tr>
<tr>
<td>0 = UL Black 2 = UL Brown 3 = UL Blue 4 = UL Yellow 6 = UL Green 7 = UL Orange</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Contact Style</th>
<th>UL Approved</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No wire stop</td>
<td>Yes</td>
</tr>
<tr>
<td>1</td>
<td>With wire stop</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Current Rating

<table>
<thead>
<tr>
<th>Wire gauge</th>
<th>Maximum approved current (amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UL (USA)</td>
</tr>
<tr>
<td>18AWG</td>
<td>8</td>
</tr>
<tr>
<td>20AWG</td>
<td>8</td>
</tr>
<tr>
<td>22AWG</td>
<td>6</td>
</tr>
<tr>
<td>24AWG</td>
<td>4</td>
</tr>
</tbody>
</table>

UL File #E90723

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.
Reduced Junction Box Connectors
18-24 AWG: 9286-250

NOTES:
1. WIRE-TO-WIRE POKE HOME CONNECTOR, JUNCTION BOX (ALL WIRES CONNECTED). AVAILABLE WITH OR WITHOUT INTERNAL WIRE STOP.
2. WIRE CONDUCTOR SIZES: 18-24AWG, SOLID AND STRANDED. SEE ABOVE FOR WIRE STRIPPING GUIDELINES.
3. HOUSING MATERIAL: GLASS-FILLED STANYL 46, UL94V-0. COLOR PER P/N. CODE AT LEFT.
4. FIXED CONTACT: TIN PLATED COPPER ALLOY.
5. FLEXING CONTACT: STAINLESS STEEL.
6. PACKAGING TO BE IN BULK; 1,000 PARTS PER BAG.
7. FOR FURTHER DETAILS, REFER TO SPECIFICATION 201-01-171 AND APPLICATION NOTES 201-01-172.
8. UL APPROVED. UL REFERENCE E90723 (US AND CANADA)
**Reduced Junction Box Connectors**

18-24 AWG: 9286-250

**Wire Trim**

**POKE HOME – JUNCTION BOX**

**WIRE TRIM**

![Diagram of POKE HOME – JUNCTION BOX]

**Insulation Diameter** | **Wire Trim Length X**
---|---
Up to 2.10 Diameter | 4.00 ± 0.50
Above 2.10mm Diameter | 7.00 ± 0.50
See Application Notes 201-01-172

**REST POSITION OF CONTACT TIP**

![Diagram of REST POSITION OF CONTACT TIP]

**POKE HOME – THRU WIRE ASSEMBLY**

![Diagram of POKE HOME – THRU WIRE ASSEMBLY]

FOR FULL ASSEMBLY DETAILS REFER TO APPLICATION NOTE 201-01-172

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GERNERAL DESCRIPTION

Poke-Home wire-to-wire connectors have been proven to be very simple and reliable over the past several years. Until today, they have been focused on the light industrial wire gauge ranges of 18AWG to 24AWG. The latest product has just been developed to address the heavier 12AWG to 18AWG. This new 300 series of connectors employs a single, phosphor bronze contact technology with a center wire stop. Accepting both solid and stranded wires, pre-stripped wires can be easily inserted and then twist and pulled to be removed.

APPLICATIONS

- Industrial Machine Controls: motors, drives, solenoids, pumps, coils or transformers
- Commercial Building: controls, security and fire
- Smart Grid: meters, breakers and panels
- SSL: fixtures and wiring
- Application notes: refer to 201-01-218

FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with twist and pull wire extraction
- One-Piece contact with high force contact beams provide mechanical stability and wire retention
- Integral wires stop prevents over insertion
- -316 product will accept both 16AWG and 18AWG solid and stranded wires

ELECTRICAL

- Current Rating:

<table>
<thead>
<tr>
<th>Connector</th>
<th>Wire Gauge</th>
<th>Solid Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 AWG</td>
<td>18 AWG</td>
<td>10A</td>
</tr>
<tr>
<td>16 AWG</td>
<td>16 AWG</td>
<td>11A</td>
</tr>
<tr>
<td>14 AWG</td>
<td>14 AWG</td>
<td>13A</td>
</tr>
<tr>
<td>12 AWG</td>
<td>12 AWG</td>
<td>15A</td>
</tr>
</tbody>
</table>

- Voltage Rating: 600 V

ENVIRONMENTAL

- Operating Temperature: -40°C to +65°C

MECHANICAL

- Contact Material: Phosphor Bronze
- Plating: Pure Tin Over Nickel
- Durability: 5 Cycles

HOW TO ORDER

Prefix | Series | Number of Ways | Wire Size* | Housing Color | Plating Option
---|---|---|---|---|---
00 | 9286 | 001 | 3XX | X | 06

*Solid or Standed wire accepted:
more than 19 strands per wire not recommended

Certification: UL File #E90723
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Thru Wire Connector
12-18 AWG: WTW - 9286-300

00-9286-001-316-X06

NOTES:
1. HOUSING MATERIAL: GLASS-FILLED THERMOPLASTIC FLAME RETARDANT PER UL94V-0: COLOR SEE PAGE 1.
2. CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
3. CONTACT PLATING: LEAD-FREE TIN OVER NICKEL.
4. PACKAGING TO BE IN BULK, 500 PER BAG.
5. FOR ADDITIONAL INFORMATION, SEE AVX PRODUCT SPECIFICATION 201-01-217, AND APPLICATION NOTES 201-01-218
Thru Wire Connector
12-18 AWG: WTW - 9286-300

00-9286-001-314-X06

NOTES:
1. HOUSING MATERIAL: GLASS-FILLED THERMOPLASTIC FLAME RETARDANT PER UL94V-0: COLOR SEE PAGE 1.
2. CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
3. CONTACT PLATING: LEAD-FREE TIN OVER NICKEL.
4. PACKAGING TO BE IN BULK, 500 PER BAG.
5. FOR ADDITIONAL INFORMATION, SEE AVX PRODUCT SPECIFICATION 201-01-217, AND APPLICATION NOTES 201-01-218.

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.
NOTES:
1. HOUSING MATERIAL: GLASS-FILLED THERMOPLASTIC FLAME RETARDANT PER UL94V-0. COLOR SEE PAGE 1.
2. CONTACT MATERIAL: HIGH STRENGTH COPPER ALLOY.
3. CONTACT PLATING: LEAD-FREE TIN OVER NICKEL.
4. PACKAGING TO BE IN BULK, 500 PER BAG.
5. FOR ADDITIONAL INFORMATION, SEE AVX PRODUCT SPECIFICATION 201-01-217, AND APPLICATION NOTES 201-01-218.
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Europe
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