

**M12 Connector**

TE Internal #: T4111502021-000

Cable-to-Cable, 2 Position, Sealable, Wire &amp; Cable, Signal, Cable Mount (Free-Hanging), Reverse Gender, M12 Connector, Standard Circular Connectors

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Connectors &gt; Circular Connectors &gt; Standard Circular Connectors &gt; M12 Field Installable Unshielded

Connector System: **Cable-to-Cable**Connector Mounting Type: **Cable Mount (Free-Hanging)**Number of Positions: **2**Sealable: **Yes**Connector & Contact Terminates To: **Wire & Cable**[All M12 Field Installable Unshielded \(102\)](#)**Features****Product Type Features**

|                                   |                      |
|-----------------------------------|----------------------|
| Product Type                      | Connector Assembly   |
| Accessory Color                   | Black                |
| Assembly Requirement              | Factory Assembled    |
| Assembly Type                     | Electrical Connector |
| Circular Connector Shell Type     | All Plastic          |
| Connector Product Type            | Connector Assembly   |
| Connector System                  | Cable-to-Cable       |
| Sealable                          | Yes                  |
| Connector & Contact Terminates To | Wire & Cable         |
| Circular Connector Type           | Plug                 |
| Shell Type                        | Plastic              |

**Configuration Features**

|                             |    |
|-----------------------------|----|
| Factory Installed Backshell | No |
|-----------------------------|----|

|                            |     |
|----------------------------|-----|
| Keying                     | D   |
| Number of Positions        | 2   |
| Number of Power Positions  | 0   |
| Number of Signal Positions | 2   |
| Contacts Preloaded         | Yes |

#### Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VAC |
|-------------------|---------|

#### Body Features

|   |                   |
|---|-------------------|
| Peripheral Seal Material                    | Silicone          |
| Environmental Protection                    | IP67              |
| O-Ring Material                             | Silicone          |
| Environmental Protection Type               | Elastomer Sealed  |
| Shell Plating Material                      | Unplated          |
| Shell Base Material                         | Plastic           |
| Circular Connector Insulation Material Type | Polyamide 66 GF25 |
| Hermetically Sealed                         | Yes               |

#### Contact Features

|                                 |     |
|---------------------------------|-----|
| Contact Current Rating (Max)    | 4 A |
| Reverse Gender                  | Yes |
| Circular Connector Contact Type | Pin |

#### Mechanical Attachment

|                         |                            |
|-------------------------|----------------------------|
| Mating Retention Type   | Threaded Coupling          |
| Mating Alignment        | With                       |
| Connector Mounting Type | Cable Mount (Free-Hanging) |
| Polarization Code       | D                          |
| Mating Alignment Type   | Keyed                      |

#### Housing Features

|                               |    |
|-------------------------------|----|
| Circular Connector Shell Size | 20 |
|-------------------------------|----|

#### Dimensions

|           |                           |
|-----------|---------------------------|
| Wire Size | .75 – .25 mm <sup>2</sup> |
|-----------|---------------------------|

#### Usage Conditions

|                       |   |
|-----------------------|---|
| IP Dust Sealing Level | 6 |
|-----------------------|---|

|                             |                            |
|-----------------------------|----------------------------|
| IP Water Sealing Level      | IP67                       |
| Operating Temperature Range | -40 – 85 °C [-40 – 185 °F] |

### Operation/Application

|                     |            |
|---------------------|------------|
| Durability Rating   | 100 Cycles |
| Circuit Application | Signal     |
| Shielded            | No         |

### Industry Standards

|                        |         |
|------------------------|---------|
| UL Flammability Rating | UL 94HB |
|------------------------|---------|

### Packaging Features

|                    |   |
|--------------------|---|
| Packaging Quantity | 1 |
|--------------------|---|

### Other

|                   |     |
|-------------------|-----|
| Field Serviceable | Yes |
|-------------------|-----|

### Product Compliance

For compliance documentation, visit the product page on [TE.com](http://TE.com)>

|   |   |
|---|---|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions   |
| EU ELV Directive 2000/53/EC                   | Compliant with Exemptions   |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold  |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>SVHC > Threshold:<br>Pb (3.7% in Component Part)<br><small>Article Safe Usage Statements:<br/>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.</small> |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.  |
| Solder Process Capability                     | Not applicable for solder process capability  |

#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides

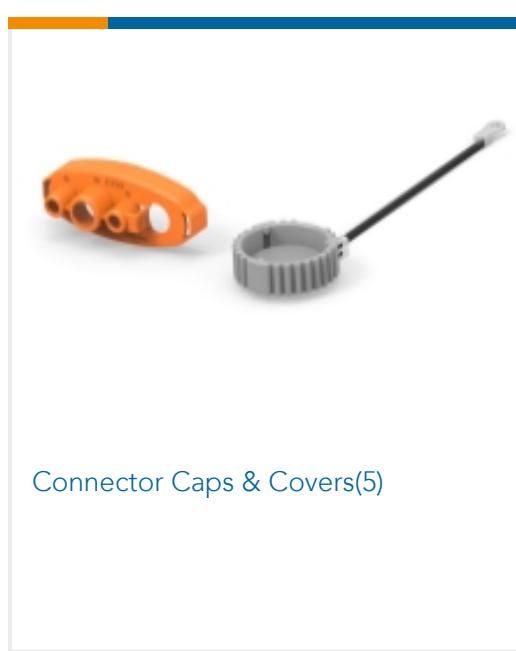
on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Compatible Parts

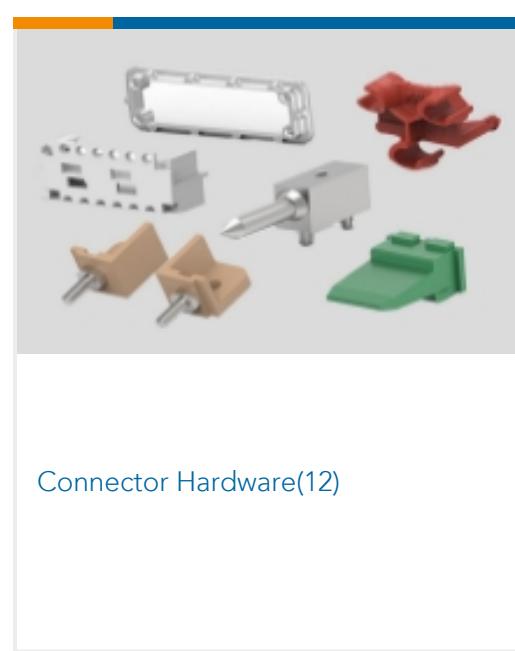


TE Part # T4110502021-000  
M12,FEMALE,STRAIGHT,D CODE,2P,  
PG9,GOLD

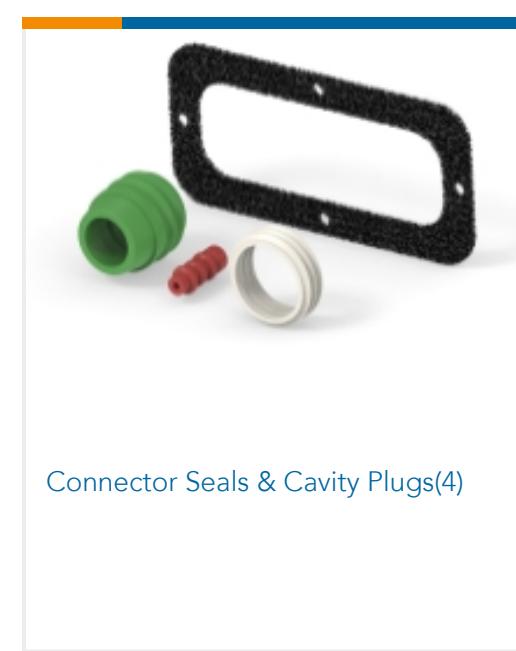
## Also in the Series | M12 Connector



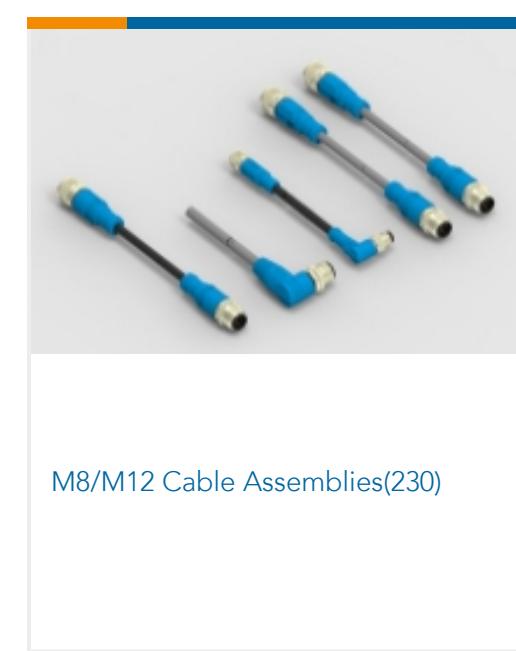
Connector Caps & Covers(5)



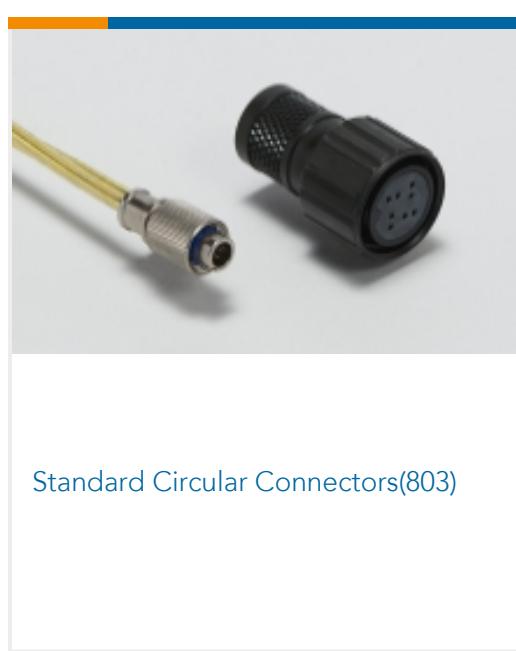
Connector Hardware(12)



Connector Seals & Cavity Plugs(4)



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(803)

## Customers Also Bought



TE Part #DTM04-12PA  
REC, 12P, GRY, N, A



TE Part #2411-002-1805  
PANEL NUT, SIZE 18, HDP



TE Part #440054-5  
AMP HPI 2.0 mm Headers



TE Part #T4131512021-000  
M12, REAR MOUNT, FEMALE, D, 2P,  
SOLDER WIRE



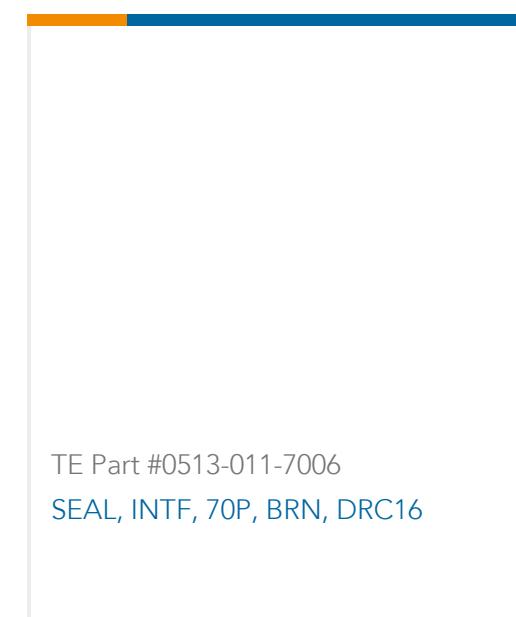
TE Part #5-1478762-2  
Metal backshell 15 way Top Entry-KIT



TE Part #1986172-1  
PASSTHROUGH SHIELDED RECPT  
ASSY



TE Part #T4111002021-000  
M12,MALE,STRAIGHT,A CODE,2P,  
PG9,GOLD



TE Part #0513-011-7006  
SEAL, INTF, 70P, BRN, DRC16



TE Part #1878662-7  
QCC311GR

## Documents

### Product Drawings

[M12,MALE,STRAIGHT,D CODE,2P,PG9,GOLD](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_T4111502021-000\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4111502021-000\\_B.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4111502021-000\\_B.2d\\_dxf.zip](#)

English

### 3D PDF

3D

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[M8 / M12 Connector System Catalog](#)

English

### Product Specifications

[Application Specification](#)

English

### Agency Approvals

[UL](#)

English