



M12 Connector

TE Internal #: T4111002051-000

TE Internal Description: M12,MALE,STRAIGHT,A CODE,5P,PG9,
GOLD

M12 Field Installable Unshielded

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors > M12 Field Installable Unshielded



Product Type: **Connector**

Connector System: **Wire-to-Wire**

Number of Positions: **5**

Sealable: **Yes**

Connector & Contact Terminates To: **Wire & Cable**

[All M12 Field Installable Unshielded \(102\)](#)

Features

Product Type Features

| | |
|-----------------------------------|----------------------|
| Prewired | No |
| Accessory Color | Black |
| Assembly Type | Electrical Connector |
| Product Type | Connector |
| Connector System | Wire-to-Wire |
| Sealable | Yes |
| Connector & Contact Terminates To | Wire & Cable |
| Shell Size | 20 |
| Shielded | No |
| Connector Style | Plug |
| Shell Type | Plastic |

Configuration Features

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

| | |
|----------------------------|-----|
| Keying | A |
| Number of Positions | 5 |
| Number of Power Positions | 0 |
| Number of Signal Positions | 5 |
| Preloaded | Yes |

Electrical Characteristics

| | |
|-------------------|--------|
| Operating Voltage | 60 VAC |
|-------------------|--------|

Body Features

| | |
|-------------------------------|-------------------|
| Peripheral Seal Material | Silicone |
| Environmental Protection | IP67 |
| O-Ring Material | Silicone |
| Environmental Protection Type | Elastomer Sealed |
| Shell Material | PBT |
| Insulation Material | Polyamide 66 GF25 |

Contact Features

| | |
|------------------------------|--------------|
| Contact Current Rating (Max) | 4 A |
| Reverse Gender | Standard |
| Contact Type | Male Contact |

Mechanical Attachment

| | |
|-----------------------|-------------------|
| Mating Retention Type | Threaded Coupling |
| Flange | Without |
| Mating Alignment | With |
| Polarization Code | A |
| Mating Alignment Type | Keyed |

Dimensions

| | |
|-----------|--------------------------|
| Wire Size | .82 – .2 mm ² |
|-----------|--------------------------|

Usage Conditions

| | |
|-----------------------------|---|
| IP Dust Sealing Level | 6 |
| IP Water Sealing Level | IP67 |
| Operating Temperature Range | -40 – 85 °C, -40 – 85 °C[-104 – 185 °F] |

Operation/Application

| | |
|-------------------|------------|
| Durability Rating | 100 Cycles |
|-------------------|------------|

Circuit Application

Signal

Packaging Features

Packaging Quantity

1

Other

Field Serviceable

Yes

Product Compliance

[For compliance documentation, visit the product page on 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: JUL 2019 (201)
 Candidate List Declared Against: JUL 2019 (201)
 Does not contain REACH SVHC

EU REACH Regulation (EC) No. 1907/2006

Current ECHA Candidate List: JUL 2019 (201)
 Candidate List Declared Against: JUL 2019 (201)

Halogen Content

Not Yet Reviewed for halogen content

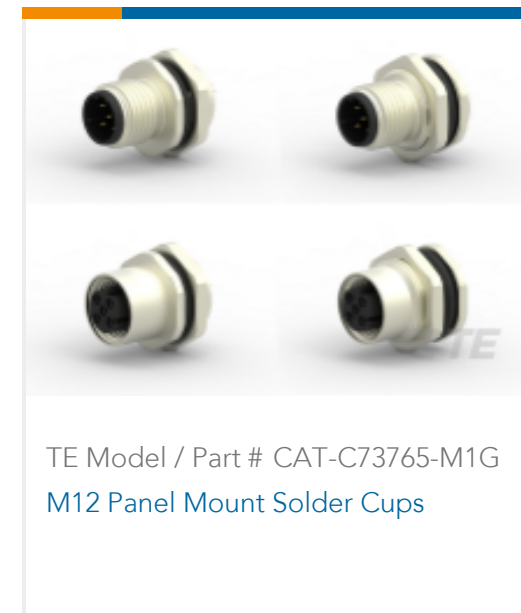
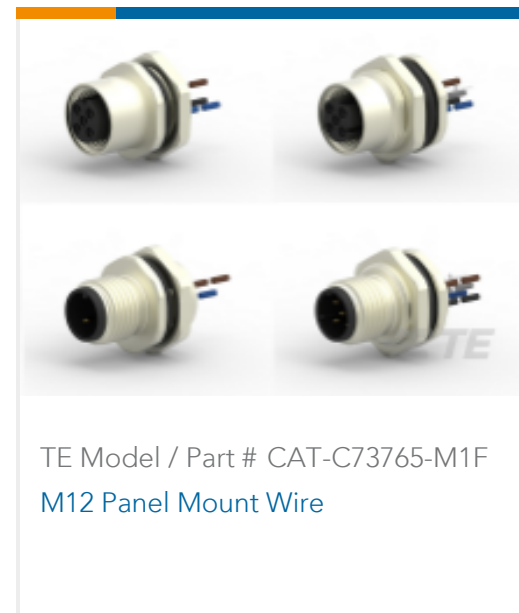
Solder Process Capability

Not applicable for solder process capability

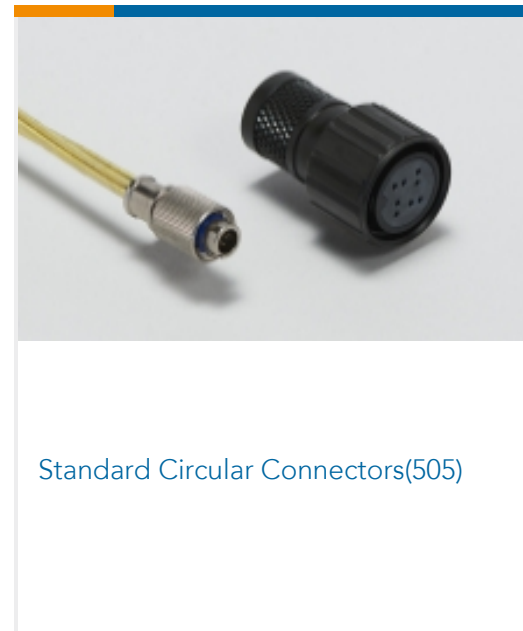
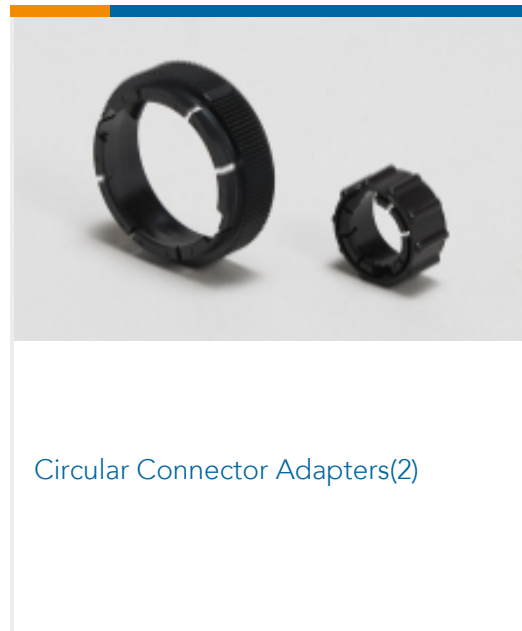
Product Compliance Disclaimer

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

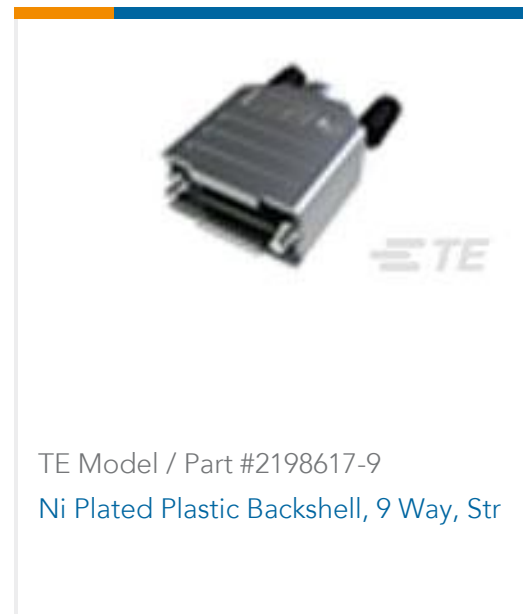
Compatible Parts



Also in the Series | M12 Connector



Customers Also Bought



Documents

Product Drawings

M12,MALE,STRAIGHT,A CODE,5P,PG9,GOLD

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_T4111002051-000_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_T4111002051-000_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_T4111002051-000_A.3d_stp.zip](#)



English

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

[Product Specification](#)

English

[M12 screw connection application specification](#)

English