



M12 Connector

TE Internal #: T4110011051-000

5 Position Circular Connector, Cable-to-Cable, Sealable, Wire & Cable, Signal, Cable Mount (Free-Hanging), Reverse Gender, Nickel, M12 Connector

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Connectors > Circular Connectors > Standard Circular Connectors



Number of Positions: 5

Connector System: **Cable-to-Cable**

Sealable: **Yes**

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

Contact Current Rating (Max): **4 A**

Features

Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 60 VDC |
|-------------------|--------|

Industry Standards

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

Other

|                            |                           |
|----------------------------|---------------------------|
| Field Serviceable          | Yes                       |
| Position Locations Omitted | 0                         |
| EU RoHS Compliance         | Compliant with Exemptions |
| EU ELV Compliance          | Compliant with Exemptions |

Usage Conditions

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

Body Features

|  |  |
|--|--|
|  |  |
|--|--|



|   |                   |
|---|-------------------|
| O-Ring Material                             | Silicone          |
| Environmental Protection                    | IP67              |
| Environmental Protection Type               | Elastomer Sealed  |
| Primary Product Color                       | Black             |
| Peripheral Seal Material                    | Silicone          |
| Shell Plating Material                      | Nickel            |
| Shell Base Material                         | Copper Alloy      |
| Circular Connector Insulation Material Type | Polyamide 66 GF25 |
| Hermetically Sealed                         | Yes               |

Mechanical Attachment

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

Operation/Application

|                     |            |
|---------------------|------------|
| Durability Rating   | 100 Cycles |
| Circuit Application | Signal     |
| Shielded            | Yes        |

Product Type Features

|                                   |                      |
|-----------------------------------|----------------------|
| Assembly Requirement              | Factory Assembled    |
| Circular Connector Shell Type     | Metal-Shell          |
| Connector Product Type            | Connector Assembly   |
| Assembly Type                     | Electrical Connector |
| Connector System                  | Cable-to-Cable       |
| Sealable                          | Yes                  |
| Connector & Contact Terminates To | Wire & Cable         |
| Circular Connector Type           | Receptacle           |
| Shell Type                        | Metal                |

Configuration Features

|                                       |      |
|---------------------------------------|------|
| Keying & Polarized Position Locations | A    |
| Factory Installed Backshell           | With |
| Number of Positions                   | 5    |



|                            |     |
|----------------------------|-----|
| Number of Power Positions  | 0   |
| Number of Signal Positions | 5   |
| Contacts Preloaded         | Yes |

Contact Features

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

Housing Features

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

Dimensions

|           |             |
|-----------|-------------|
| Wire Size | 18 – 24 AWG |
|-----------|-------------|

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: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>SVHC > Threshold:<br>Pb (4% 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                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free   |
| 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 # T4111011051-000  
M12 M, 5P GOLD A\_CODE S  
SHIELDED PG7

TE Part # T4111003051-000  
RPC-M12-MS-5CON-PG11

Also in the Series | M12 Connector

Connector Hardware(11)

Connector Seals & Cavity Plugs(4)

M8/M12 Cable Assemblies(230)

Standard Circular Connectors(793)

Customers Also Bought

TE Part #T4113012051-000  
M12 M, 5P GOLD A\_CODE RA  
SHIELDED PG9

TE Part #T4112011051-000  
M12 F, 5P GOLD A\_CODE RA  
SHIELDED PG7

TE Part #T4113011051-000  
M12 M, 5P GOLD A\_CODE RA  
SHIELDED PG7

TE Part #T4112012051-000  
M12 F, 5P GOLD A\_CODE RA  
SHIELDED PG9

TE Part #244922-000  
82A0112-28-9

TE Part #4-2176216-1  
CPF A 0603 6K8 0.1% 25PPM 1K RL

TE Part #793893-000  
82A0111-24-9

TE Part #3-647166-9  
09P MTA100 HDR ASSY,SM,FL,LF



Documents

Product Drawings

M12 F, 5P GOLDR A\_CODE S SHIELDED PG7

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_T4110011051-000\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_T4110011051-000\_B.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_CVM\_T4110011051-000\_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