



M12 Connector

TE Internal #: T4113512051-000

Standard Circular Connectors, Wire-to-Wire, 5 Position, Sealable, Wire & Cable, Signal, Nickel, Brass, D Polarization Code, M12 Connector

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Connectors > Circular Connectors > Standard Circular Connectors



Connector System: **Wire-to-Wire**
Number of Positions: **5**
Sealable: **Yes**
Connector & Contact Terminates To: **Wire & Cable**
Contact Current Rating (Max): **4 A**

Features

Product Type Features

| | |
|-----------------------------------|----------------------|
| Prewired | No |
| Product Type | Connector Assembly |
| Accessory Color | Black |
| Assembly Type | Electrical Connector |
| Connector System | Wire-to-Wire |
| Sealable | Yes |
| Connector & Contact Terminates To | Wire & Cable |
| Circular Connector Type | Plug |
| Shell Type | Metal |

Configuration Features

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



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

Electrical Characteristics

| | |
|-------------------|----------|
| Operating Voltage | 60 VAC |
| Voltage | 250 Vrms |

Body Features

| | |
|---|-------------------|
| Peripheral Seal Material | Silicone |
| Environmental Protection | IP67 |
| O-Ring Material | Silicone |
| Environmental Protection Type | Elastomer Sealed |
| Shell Plating Material | Nickel |
| Shell Base Material | Brass |
| Circular Connector Insulation Material Type | Polyamide 66 GF25 |

Contact Features

| | |
|---------------------------------|-----|
| Contact Current Rating (Max) | 4 A |
| Reverse Gender | No |
| Circular Connector Contact Type | Pin |

Mechanical Attachment

| | |
|-----------------------|-------------------|
| Mating Retention Type | Threaded Coupling |
| Mating Alignment | With |
| Polarization Code | D |
| Mating Alignment Type | Keyed |

Housing Features

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

Dimensions

| | |
|-----------|--------------|
| Wire Size | .82 – .2 mm² |
|-----------|--------------|

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 | Yes |

Industry Standards

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

Other

| | |
|----------------------------|-----|
| Position Locations Omitted | 0 |
| 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: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) SVHC > Threshold: Pb (3.7% in Component Part) Article Safe Usage Statements: 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. |
| 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 # T4110512051-000
M12 F, 5P GOLD D_CODE S
SHIELDED PG9

TE Part # 2273207-1
M12 x 1.0 angled socket 5pos shld D

Also in the Series

M12 Connector

M8/M12 Cable Assemblies(230)

Standard Circular Connectors(521)

Customers Also Bought

TE Part #54012-1
CPC Heat Shrink Strain Reliefs

TE Part #1-2315714-1
M12 X-CODE M-8 CON RADOX 8.1
MM, H&S

TE Part #T4113012051-000
M12 M, 5P GOLD A_CODE RA
SHIELDED PG9

TE Part #T4112012051-000
M12 F, 5P GOLD A_CODE RA
SHIELDED PG9

TE Part #66105-2
III+ SKT,24-20,TIN-LEAD,LP

TE Part #1-206070-0
CABLE CLAMP KIT, BULK PKG

TE Part #T4111012041-000
M12 M, 4P GOLD A_CODE S
SHIELDED PG9

TE Part #1473247-1
MQS 81P LEVER(R) ASSY

Documents

Product Drawings

M12 M, 5P GOLD D_CODE RA SHIELDED PG9

English

CAD Files

Customer View Model

ENG_CVM_CVM_T4113512051-000_B.3d_igs.zip



English

Customer View Model

[ENG_CVM_CVM_T4113512051-000_B.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_T4113512051-000_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

[M8 / M12 Connector System Catalog](#)

Japanese

Product Specifications

English

Agency Approvals

[UL](#)

English