



M12 Connector

TE Internal #: T4145015021-001

Wire-to-Panel, 2 Position, Sealable, Wire & Cable, Signal, Panel Mount, Reverse Gender, Nickel, M12 Connector, Standard Circular Connectors

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Connectors > Circular Connectors > Standard Circular Connectors > M12 Panel Mount PCB



Connector System: **Wire-to-Panel**  
Connector Mounting Type: **Panel Mount**  
Number of Positions: **2**  
Sealable: **Yes**  
Connector & Contact Terminates To: **Wire & Cable**

[All M12 Panel Mount PCB \(111\)](#)

Features

Product Type Features

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

Configuration Features

|                     |   |
|---------------------|---|
| Number of Positions | 2 |
|---------------------|---|



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

Body Features

|                                             |              |
|---------------------------------------------|--------------|
| Shell Plating Material                      | Nickel       |
| Shell Base Material                         | Copper Alloy |
| Circular Connector Insulation Material Type | Polyamide GF |
| Hermetically Sealed                         | Yes          |

Contact Features

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

Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Panel Mount |
| Polarization Code       | A           |
| Mating Alignment Type   | Keyed       |

Housing Features

|                               |    |
|-------------------------------|----|
| Circular Connector Shell Size | 12 |
|-------------------------------|----|

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| IP Water Sealing Level      | 7                         |
| IP Dust Sealing Level       | 6                         |
| Operating Temperature Range | -40 – 85 °C[-40 – 185 °F] |

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
| Shielded            | No     |

Industry Standards

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

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 (3.7% in Component Part)<br><b>Article Safe Usage Statements:</b><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. |
| 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



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 #8-188275-6  
Female-on-Board Connector, Top Entry

TE Part #281934-3  
SINGLE WIRE SEAL

TE Part #T4161420008-005  
RPC-M12-FR-8CON-PUR-5.0SH

TE Part #794954-6  
6P RCPT VAL-U-LOK V2

TE Part #4-1437565-9  
FSM6JSMA=SMT,TACTILE,PB SWITCH

TE Part #32501  
TERMINAL,BUDG SPD 26-22 0

TE Part #5552633-3  
KIT, HARDWARE STANDOFF STUD MT

TE Part #CA2415-000  
224W201-25-0

Documents

Product Drawings

M12 R/A F PNLREAR STAMPED PIN A-CODE 2P

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_T4145015021-001\_A.2d\_dxf.zip



English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4145015021-001\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4145015021-001\\_A.3d\\_stp.zip](#)

English

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Datasheets & Catalog Pages

[M8 / M12 Connector System Catalog](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL](#)

English