



M12 Connector

TE Internal #: T4145415021-001

2 Position Circular Connector, Wire-to-Panel, Sealable, Wire & Cable, Signal, Panel Mount, Reverse Gender, Nickel, Copper Alloy, B Code, M12 Connector

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



Number of Positions: 2

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

Sealable: **Yes**

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

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

[All M12 Panel Mount PCB \(103\)](#)

Features

Product Type Features

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	
Primary Product Color	Black
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	B
Mating Alignment Type	Keyed
Housing Features	
Circular Connector Shell Size	12
Usage Conditions	
IP Dust Sealing Level	6
IP Water Sealing Level	7
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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (3.7% in 74019790) 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	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not applicable for solder process capability

Product Compliance Disclaimer



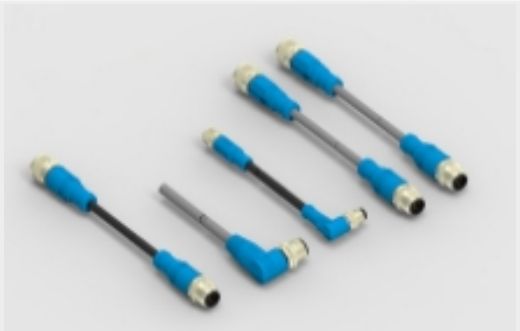

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # T4111401021-000
M12,MALE,STRAIGHT,B CODE,2P,
PG7,GOLD

Also in the Series | M12 Connector

 Connector Hardware(11)	 Connector Seals & Cavity Plugs(4)	 M8/M12 Cable Assemblies(230)	 Standard Circular Connectors(793)
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Customers Also Bought

TE Part #6-1879028-7
RN 0805 249K 0.1% 10PPM 1K RL

TE Part #C31369-000
WP-254064-10-9

TE Part #0462-201-16141
SOC, SOLID, SIZE 16, 16-20AWG, NI

TE Part #DT06-6S-C017
PLG, 6P, GRY, BLOCKED

TE Part #1062-20-0244
SOC, SF, SIZE 20, 16-22, AU/SN

TE Part #4-2176237-4
CPF A 0603 12K 0.1% 25PPM 5K RL

TE Part #1062-14-0122
SOC, SF, SIZE 16, 14-18, NI/SN

TE Part #8-1879135-5
RN 0603 8R87 0.1% 10PPM 5K RL

Documents

Product Drawings

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

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_T4145415021-001_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_T4145415021-001_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_T4145415021-001_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

M8 / M12 Connector System Catalog

Japanese

Product Specifications

Application Specification



English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

UL

English