



M12 Connector

TE Internal #: T4145435021-001

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
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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	B
Mating Alignment Type	Keyed

Housing Features

Circular Connector Shell Size	12
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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	Yes

Industry Standards

UL Flammability Rating	UL 94HB
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Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
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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) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold: Pb (3.7% in Component Part) <b>Article Safe Usage Statements:</b> 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 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 #T4145035021-001  
M12 Panel Mount PCB

TE Part #T4111011021-000  
M12 M, 2P GOLD A\_CODE S SHIELDED PG7

TE Part #T4111411021-000  
M12 M, 2P GOLD B\_CODE S SHIELDED PG7

Documents

Product Drawings

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

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_T4145435021-001\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_T4145435021-001\_B.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_CVM\_T4145435021-001\_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

Instruction Sheets  
Instruction Sheet (U.S.)  
English

Agency Approvals  
UL  
English