

**M12 Connector**

TE Internal #: T4145435051-001

Standard Circular Connectors, Wire-to-Board, 5 Position, Sealable, Panel Mount, Nickel, Brass, B Polarization Code, Polyamide GF, M12 Connector

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Connectors &gt; Circular Connectors &gt; Standard Circular Connectors &gt; M12 Panel Mount PCB

Connector System: **Wire-to-Board**Connector Mounting Type: **Panel Mount**Number of Positions: **5**Sealable: **Yes**Reverse Gender: **No**[All M12 Panel Mount PCB \(111\)](#)**Features****Product Type Features**

Product Type	Connector Assembly
Accessory Color	Black
Prewired	No
Assembly Type	Electrical Connector
Connector System	Wire-to-Board
Sealable	Yes
Circular Connector Type	Receptacle
Shell Type	Metal

**Configuration Features**

Number of Positions	5
Number of Power Positions	0
Number of Signal Positions	5

### Body Features

Shell Plating Material	Nickel
Shell Base Material	Brass
Circular Connector Insulation Material Type	Polyamide GF

### Contact Features

Reverse Gender	No
Circular Connector Contact Type	Socket

### Mechanical Attachment

Connector Mounting Type	Panel Mount
Polarization Code	B
Mating Alignment Type	Keyed
Mating Retention	With

### 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

Shielded	Yes
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### Industry Standards

UL Flammability Rating	UL 94HB
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### Product Compliance

For compliance documentation, visit the product page on [TE.com](http://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 2024 (240) Candidate List Declared Against: JAN 2024 (240) SVHC > Threshold: Pb (3.7% in Component Part)

## Halogen Content

## 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.

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

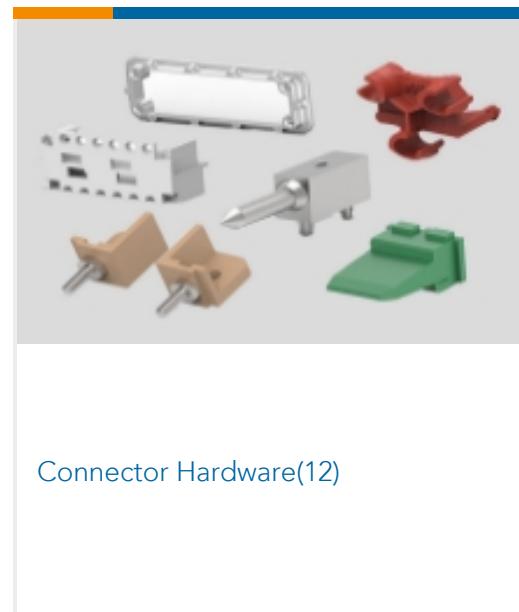


TE Part # T4111402051-000  
M12,MALE,STRAIGHT,B CODE,5P,  
PG9,GOLD

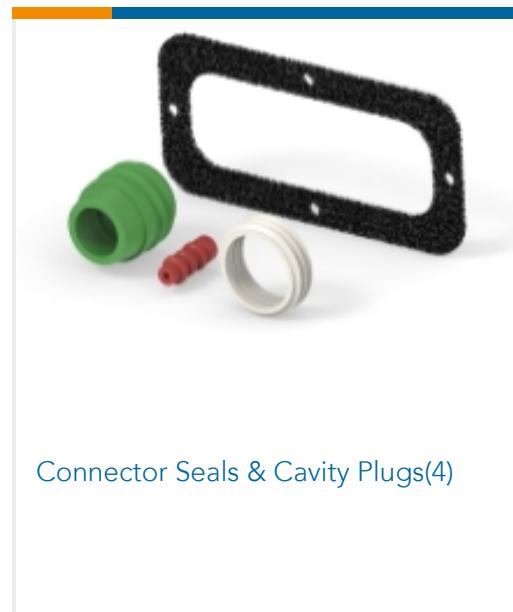
## Also in the Series | M12 Connector



Connector Caps & Covers(5)



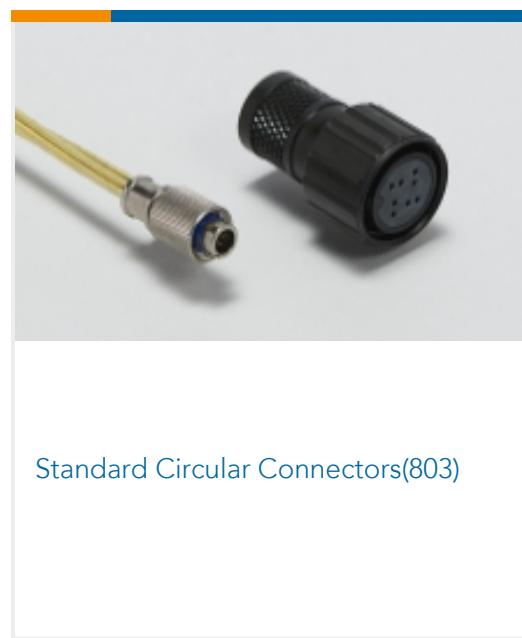
Connector Hardware(12)



Connector Seals & Cavity Plugs(4)



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(803)

## Customers Also Bought

TE Part # 5-1676966-3  
SMW2 15R 5%TE Part # 2-1614883-3  
CPF 0805 10R 0.1% 25PPM 5K RLTE Part # 7-1879337-3  
CPF 0603 14K 1% 50PPM 1K RLTE Part # 1676474-2  
RN 0805 9K53 0.1% 10PPM 1KRLTE Part # 2118715-2  
STD SHIELD COVER, CRS-16.90X16.90X2.00MMTE Part # 2351885-2  
2POS TB HDR 180 DEG, PITCH 5.0&TL 4.5mmTE Part # T4144035081-000  
M12 RA PCB CONN. Male 8P SHIELDTE Part # 2823088-2  
2P,2MM, BRK HDR, SRVT, 2.8, 0.76AU, TBTE Part # MTRA61274CB2-001  
OMNI,DB,Ph,617/1690 MHzTE Part # 4-1437353-9  
OEC G6032VR CARD GUIDE  
LOCKING 120 MM

## Documents

### Product Drawings

#### M12 R/A F PNL STAMPED PIN B-CODE 5P SHLD

English

### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_T4145435051-001\\_B.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_T4145435051-001\\_B.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_T4145435051-001\\_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