

M12 Connector

TE Internal #: T4145035051-001

Standard Circular Connectors, Wire-to-Board, 5 Position, Sealable, Printed Circuit Board, Signal, Panel Mount, Nickel, Brass, M12 Connector

[View on TE.com >](#)

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

Connector System: **Wire-to-Board**Connector Mounting Type: **Panel Mount**Number of Positions: **5**Sealable: **Yes**Connector & Contact Terminates To: **Printed Circuit Board**[All M12 Panel Mount PCB \(111\)](#)**Features****Product Type Features**

Prewired	No
Product Type	Connector Assembly
Accessory Color	Black
Assembly Type	Electrical Connector
Connector System	Wire-to-Board
Sealable	Yes
Connector & Contact Terminates To	Printed Circuit Board
Circular Connector Type	Receptacle
Shell Type	Metal

Configuration Features

Keying	A
Number of Positions	5
Number of Power Positions	0

Number of Signal Positions	5
Contacts Preloaded	Yes

Electrical Characteristics

Operating Voltage	60 VAC
-------------------	--------

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 GF

Contact Features

Contact Current Rating (Max)	4 A
Reverse Gender	No
Circular Connector Contact Type	Socket

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
---	-----------------------

Mechanical Attachment

Mating Retention Type	Threaded Coupling
Mating Alignment	With
PCB Mount Retention	With
Panel Mount Feature Type	Screw Nut
Connector Mounting Type	Panel Mount
Polarization Code	A
Mating Alignment Type	Keyed
Mating Retention	With

Housing Features

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

Dimensions

Panel Thickness	2 - 3 mm [.079 - .118 in]
-----------------	---------------------------

Usage Conditions

IP Dust Sealing Level	6
IP Water Sealing Level	IP67
Operating Temperature Range	-40 - 85 °C [-40 - 185 °F]

Operation/Application

Circuit Application	Signal
Shielded	Yes

Industry Standards

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

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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) <small>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.</small>
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not applicable for solder process capability

Product Compliance Disclaimer

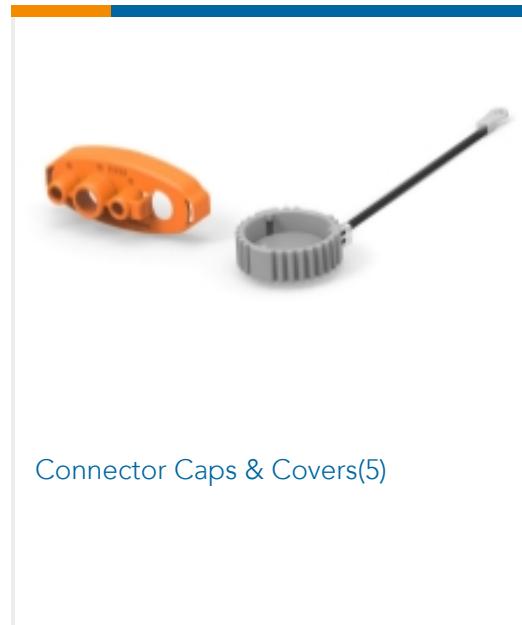
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

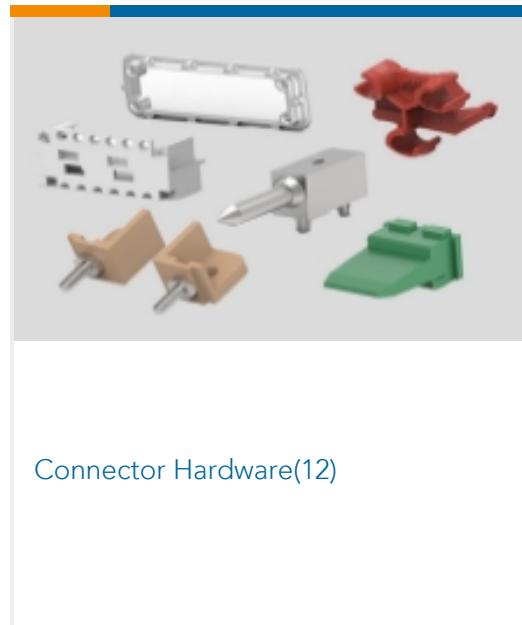


TE Part # T4111002051-000
M12,MALE,STRAIGHT,A CODE,5P,
PG9,GOLD

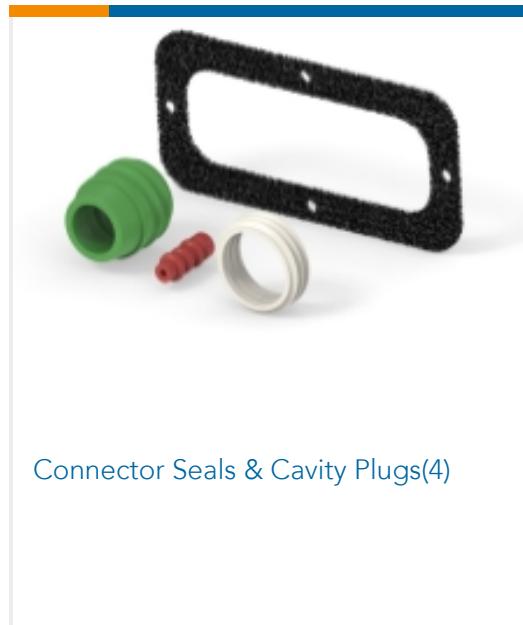
Also in the Series | M12 Connector



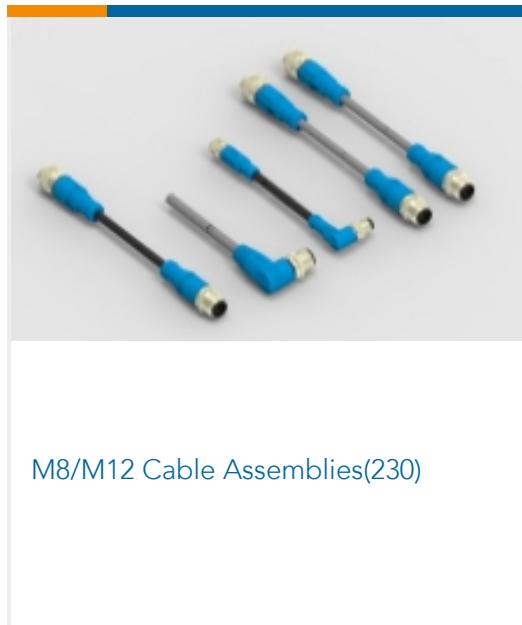
Connector Caps & Covers(5)



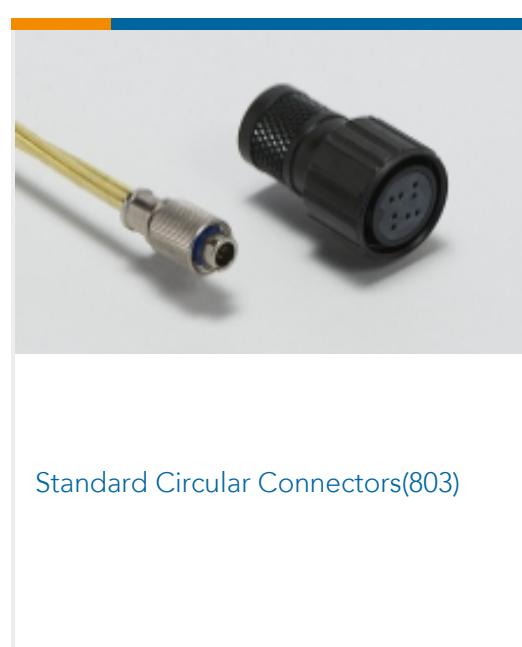
Connector Hardware(12)



Connector Seals & Cavity Plugs(4)

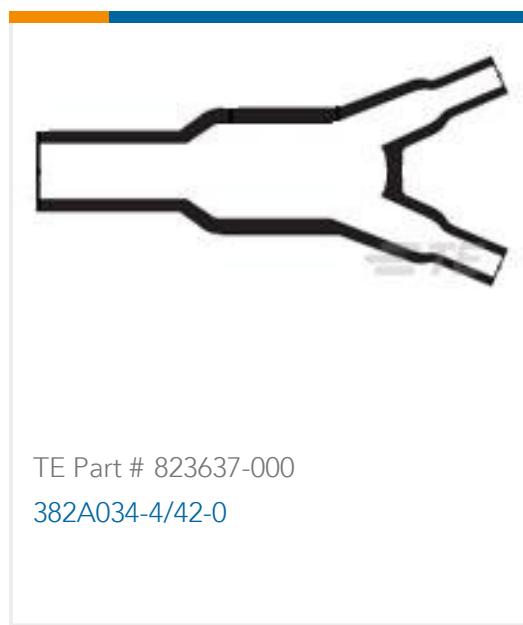


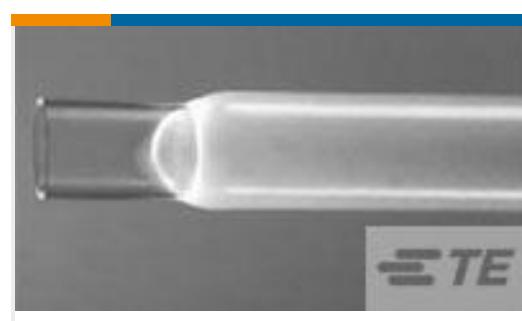
M8/M12 Cable Assemblies(230)



Standard Circular Connectors(803)

Customers Also Bought

TE Part # 1-2176055-3
RLP73M 2B R033 1% 1K RLTE Part # T4145035041-001
M12 Panel Mount PCBTE Part # 823637-000
382A034-4/42-0TE Part # T4144035081-000
M12 RA PCB CONN. Male 8P SHIELD

TE Part # 5960072006
TFER-3/4-X-STKTE Part # 1571300-3
TACT,RTANG,SMT,SEALED,GUID
PIN, T/RTE Part # T4145035081-002
M12 RA PCB CONN. Female 8 P
SHIELDTE Part # ZPF000000000122612
502-8027-00

Documents

Product Drawings

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

English

CAD Files

Customer View Model

[ENG_CVM_CVM_T4145035051-001_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_T4145035051-001_B.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_T4145035051-001_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