

**M12 Connector**

TE Internal #: T4145515021-001

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

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Connectors &gt; Circular Connectors &gt; Standard Circular Connectors &gt; 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	D
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	No

### 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
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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 &gt; Threshold:

Pb (3.7% in Component Part)

## 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

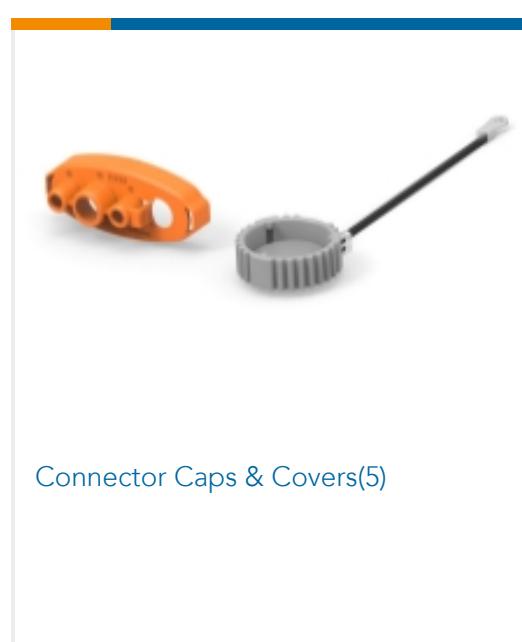
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

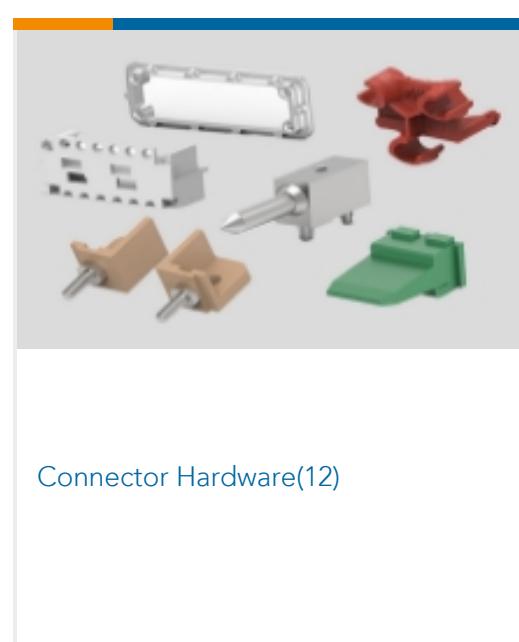


TE Part # T4111501021-000  
M12,MALE,STRAIGHT,D CODE,2P,  
PG7,GOLD

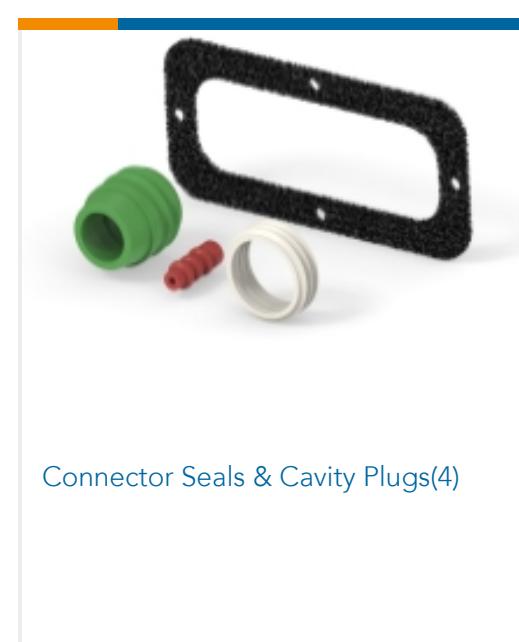
## Also in the Series | M12 Connector



Connector Caps &amp; Covers(5)



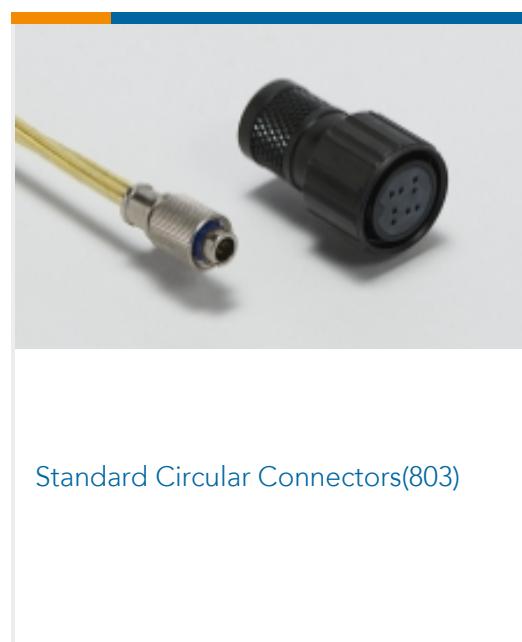
Connector Hardware(12)



Connector Seals &amp; Cavity Plugs(4)

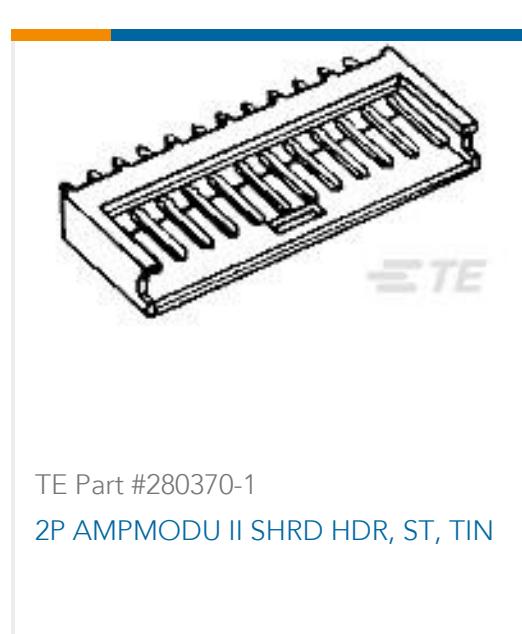


M8/M12 Cable Assemblies(230)



Standard Circular Connectors(803)

## Customers Also Bought

TE Part #965786-1  
ABDECKKAPPE 180GRDTE Part #T4111502021-000  
M12,MALE,STRAIGHT,D CODE,2P,  
PG9,GOLDTE Part #T4145435041-001  
M12 R/A F PNL STAMPED PIN B-CODE 4P SHLDTE Part #280372-1  
6P AMPMODU II SHRD HDR, ST, TINTE Part #280370-1  
2P AMPMODU II SHRD HDR, ST, TINTE Part #282834-2  
TERMI-BLOK PCB MOUNT, 90 2P.TE Part #828920-1  
EINZELADERDICHTUNGTE Part #T4111512021-000  
M12 M, 2P GOLD D\_CODE S  
SHIELDED PG9

## Documents

### Product Drawings

[M12 R/A F PNLREAR STAMPED PIN D-CODE 2P](#)

English

### CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_T4145515021-001\\_A.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_T4145515021-001\\_A.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_T4145515021-001\\_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

**Product Specifications**

[Application Specification](#)

English

**Instruction Sheets**

[Instruction Sheet \(U.S.\)](#)

English

**Agency Approvals**

[UL](#)

English