

T4145015051-001 ✓ ACTIVE



## M12 Connector

TE Internal #: T4145015051-001

5 Position Circular Connector, Wire-to-Panel, Sealable, Wire & Cable, Signal, Panel Mount & Board Mount, Reverse Gender, Nickel, M12 Connector

[View on TE.com >](#)

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



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

Connector Mounting Type: **Panel Mount & Board Mount**

Number of Positions: **5**

Sealable: **Yes**

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

[All M12 Panel Mount PCB \(102\)](#)

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



Contacts Preloaded	Yes
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### Body Features

Primary Product Color	Black
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Shell Plating Material	Nickel
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Shell Base Material	Copper Alloy
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Circular Connector Insulation Material Type	Polyamide GF
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Hermetically Sealed	Yes
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### Contact Features

Contact Current Rating (Max)	4 A
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Reverse Gender	Yes
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Circular Connector Contact Type	Socket
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### Mechanical Attachment

Connector Mounting Type	Panel Mount & Board Mount
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Polarization Code	A
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Mating Alignment Type	Keyed
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### Housing Features

Circular Connector Shell Size	12
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### Usage Conditions

IP Dust Sealing Level	6
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IP Water Sealing Level	7
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Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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### Operation/Application

Circuit Application	Signal
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Shielded	No
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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>](#)

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
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EU ELV Directive 2000/53/EC	Compliant with Exemptions
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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) <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

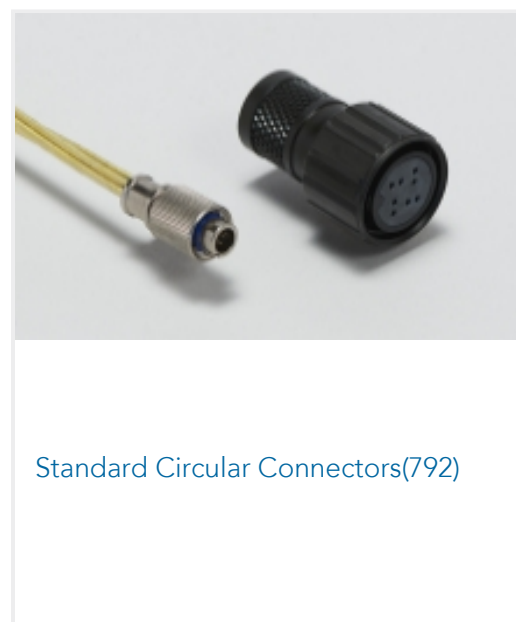
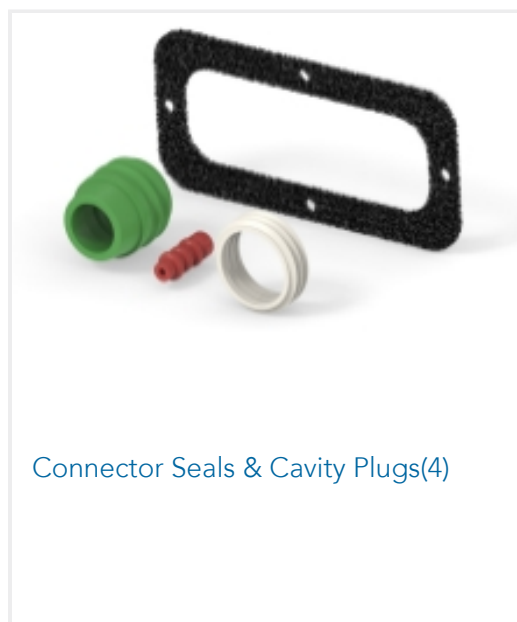
Product Compliance Disclaimer

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



## Also in the Series | M12 Connector



## Customers Also Bought



TE Part #T4144015051-000  
M12 R/A M PNL REAR A-CODE 5P  
PCBSTD



TE Part #T4145035081-002  
M12 RA PCB CONN. Female 8 P  
SHIELD



TE Part #1-2176093-1  
RP 2A 0.25W 11K8 0.1% 25PPM 1K RL



TE Part #7-2176316-9  
MELF SMA-A 15R 1% 50PPM 0207 1W



TE Part #8-2176316-2  
MELF SMA-A 27R 1% 50PPM 0207 1W



TE Part #2329497-2  
SPRING FINGER 1.15H



TE Part #2350398-2  
2 POS SPRING TB PLUG , PITCH 3.50



TE Part #2350398-3  
3 POS SPRING TB PLUG , PITCH 3.50



TE Part #2350514-3  
3POS TB HDR 90 DEG, PITCH 3.5 & TL  
3.5mm



TE Part #2350514-4  
4POS TB HDR 90 DEG, PITCH 3.5 & TL  
3.5mm

## Documents

### Product Drawings

[M12 R/A F PNLREAR STAMPED PIN A-CODE 5P](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_T4145015051-001\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4145015051-001\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4145015051-001\\_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](#)

Japanese

[M8 / M12 Connector System Catalog](#)

English

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### Product Specifications

[Application Specification](#)

English

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### Instruction Sheets

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

English

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### Agency Approvals

[UL](#)

English

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[TE Connectivity Information](#)

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- ✓ Alternative Solution
- ✓ Excess Inventory Management