



**M12 Connector**

TE Internal #: T4145015081-002

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

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Connectors > Circular Connectors > Standard Circular Connectors



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

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

Number of Positions: **8**

Sealable: **Yes**

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

**Features**

**Product Type Features**

Assembly Requirement	Factory Assembled
Circular Connector Shell Type	Metal-Shell
Connector Product Type	Connector Assembly
Assembly Type	Electrical Connector
Connector System	Wire-to-Panel
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Receptacle
Shell Type	Metal

**Configuration Features**

Keying & Polarized Position Locations	0
Number of Positions	8
Number of Power Positions	0
Number of Signal Positions	8



Contacts Preloaded	Yes
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### Electrical Characteristics

Operating Voltage	30 VDC
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### Body Features

Product Weight	11.94 g[.416 oz]
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O-Ring Material	Silicone
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Environmental Protection	IP67
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Environmental Protection Type	Elastomer Sealed
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Primary Product Color	Black
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Peripheral Seal Material	Silicone
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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)	2 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	18
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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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### Packaging Features

Packaging Quantity	120
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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
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EU REACH Regulation (EC) No. 1907/2006	<p>Current ECHA Candidate List: JAN 2025 (247)</p> <p>Candidate List Declared Against: JUNE 2023 (235)</p> <p>SVHC &gt; Threshold: Pb (4% in Pb-Alloy in Copper)</p> <p><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.</p>
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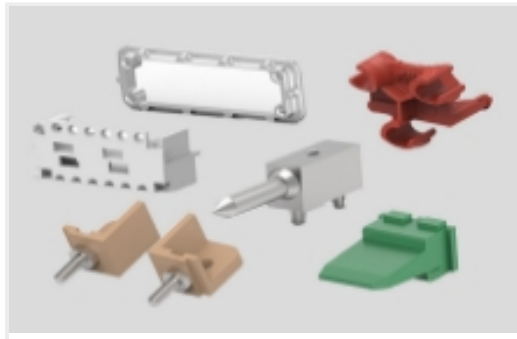
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Not reviewed for solder process capability
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#### Product Compliance Disclaimer

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>

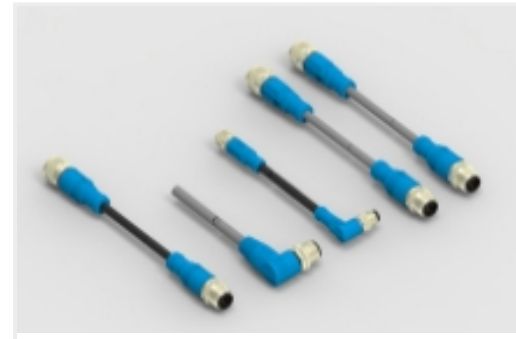
Also in the Series | [M12 Connector](#)



Connector Hardware(11)



Connector Seals & Cavity Plugs(4)



M8/M12 Cable Assemblies(230)

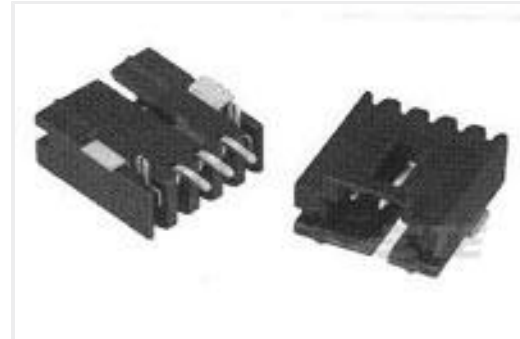


Standard Circular Connectors(792)

## Customers Also Bought



TE Part #CAT-C73765-M1H  
M12 Panel Mount PCB



TE Part #5-147278-4  
05 MTE HDR SRRA SFMNT .100CL



TE Part #1658610-3  
15 POS HDF RCPT, MS, LEAD FREE



TE Part #1658613-3  
15 POS HDF PLUG, MS, LEAD FREE



TE Part #1734248-7  
1.0 FPC, ZIF V/T, SMT, 7P



TE Part #4-1879075-6  
THS25 560R 5%



TE Part #5787962-2  
.8MM CHAMP STACK RCPT ASSY



TE Part #2-6450830-8  
MBXL R/A HDR 2P + 20S + 2P

## Documents

### Product Drawings

M12 RA PCB CONN. Female 8 P UN SHIELD

English

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_T4145015081-002\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_T4145015081-002\\_A.3d\\_igs.zip](#)

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Customer View Model

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English

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[Product Specifications](#)

[Application Specification](#)

English