# 5-2172078-2 ACTIVE

#### M12 Connector

TE Internal #: 5-2172078-2

8 Position Circular Connector, Wire-to-Panel, Sealable, Wire & Cable, Signal, Panel Mount, Reverse Gender, Nickel, Zinc Alloy, A

Code, M12 Connector

View on TE.com >



Connectors > Circular Connectors > Standard Circular Connectors











Number of Positions: 8

Connector System: Wire-to-Panel

Sealable: Yes

Connector & Contact Terminates To: Wire & Cable

Contact Current Rating (Max): 2A

### **Features**

#### **Product Type Features**

Product Type Features	
Assembly Requirement	Factory Assembled
Circular Connector Shell Type	Metal-Shell
Connector Product Type	Connector Assembly
Assembly Type	Electrical Connector
Prewired	No
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	A
Factory Installed Backshell	With

8

Number of Positions



Number of Power Positions	0
Number of Signal Positions	8
Contacts Preloaded	Yes
Electrical Characteristics	
EMI & RFI Protection & Suppression Type	Shielding
	Sillerang
Body Features	
O-Ring Material	Silicone Rubber
Environmental Protection	IP67
Environmental Protection Type	Sealed
Primary Product Color	Metalized Silver
Shell Plating Material	Nickel
Shell Base Material	Zinc Alloy
Circular Connector Insulation Material Type	Polyamide
Hermetically Sealed	Yes
Contact Features	
Contact Current Rating (Max)	2 A
Reverse Gender	Yes
Circular Connector Contact Type	Socket
Termination Features	
Termination Method to Wire & Cable	Solder
Mechanical Attachment	
Panel Mount Feature	With
Mating Retention Type	Threaded
PCB Mount Retention	With
Panel Mount Feature Type	Screw Nut
Mating Alignment	With
PCB Mount Alignment	With
Connector Mounting Type	Panel Mount
Polarization Code	A
Mating Alignment Type	Keyed
Mating Retention	With
Housing Features	



Circular Connector Shell Size	18
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	No
Industry Standards	
Compatible With Approved Standards Products	IEC

### **Product Compliance**

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Not Yet Reviewed
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: JUNE 2024 (241) SVHC > Threshold: Pb (3% 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	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed 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

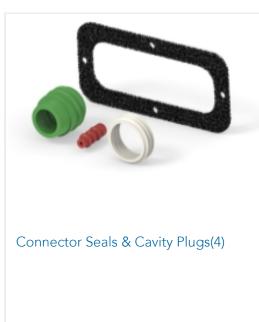


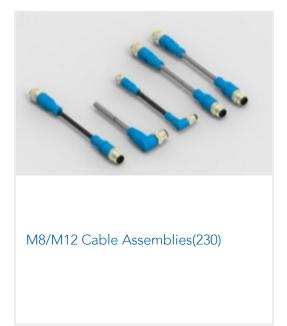
# Compatible Parts

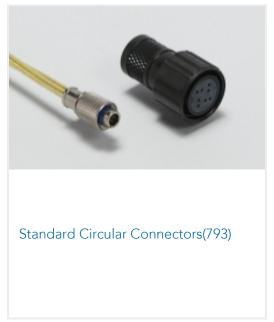


## Also in the Series | M12 Connector







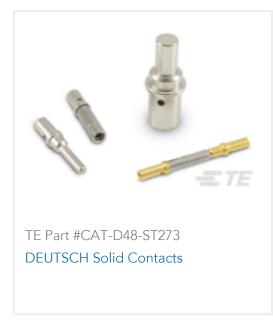


# Customers Also Bought















### **Documents**

**Product Drawings** 

M12.FMLE.PNLREAR.ACODE.8P.PCBSTD.SRT.SHL

English



#### **CAD Files**

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_5-2172078-2\_A.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5-2172078-2\_A.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_5-2172078-2\_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

M8 / M12 Connector System Catalog

Japanese

### **Product Specifications**

**Application Specification** 

English