

M12 Connector

TE Internal #: T4140012021-000

2 Position Circular Connector, Wire-to-Panel, Sealable, Wire &

Cable, Signal, Panel Mount, Reverse Gender, Nickel, Copper Alloy,

A Code, M12 Connector

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











Number of Positions: 2

Connector System: Wire-to-Panel

Sealable: Yes

Connector & Contact Terminates To: Wire & Cable

Contact Current Rating (Max): 4A

All M12 Panel Mount PCB (103)

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
Sealable Connector & Contact Terminates To	Yes Wire & Cable
Connector & Contact Terminates To	Wire & Cable
Connector & Contact Terminates To Circular Connector Type	Wire & Cable Plug

А

No

2

Number of Positions

Keying & Polarized Position Locations

Factory Installed Backshell



O-Ring Material Environmental Protection Environmental Protection Type Clastomer Sealed Primary Product Color Black Peripheral Seal Material Silicone 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) Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operating Temperature Range Pin Parel Mount P67 Operating Temperature Range		
Contacts Preloaded Yes Electrical Characteristics Operating Voltage 250 VDC Body Features O Ring Material Silicone Environmental Protection IP67 Environmental Protection Type Flastomer Sealed Primary Product Color Black Peripheral Seal Material Silicone Shell Plating Material Nickel Shell Plating Material Copper Alley Circular Connector Insulation Material Type Polyamide GI Hermetically Sealed Yes Contact Features Contact Features Contact Current Rating (Max) 4 A Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Maling Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 –85 °C(-40 – 185 °F) Operating Temperature Range Circular Application Circuit Application Circuit Application Signal	Number of Power Positions	0
Electrical Characteristics Operating Voltage 250 VDC Body Features O-Ring Material 511cone Invironmental Protection IIP6/ Environmental Protection Type Elastomer Sealed Primary Product Color Black Peripheral Seal Material Silicone 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 Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40-85 *C -40-185 *F Operating Temperature Range Circuit Application Circuit Application Signal	Number of Signal Positions	2
Coperating Voltage Body Features O Ring Material Environmental Protection Environmental Protection Type Flastomer Sealed Primary Product Color Black Peripheral Seal Material Silicone Shell Plating Material Shell Plating Material Shell Passe Material Copper Alloy Circular Connector Insulation Material Type Polyamide GF Hermetically Sealed Yes Contact Features Contact Features Contact Current Rating (Max) A Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operatiny Application Circult Application Circulat Application Signal	Contacts Preloaded	Yes
Body Features O-Ring Material Sillicone Environmental Protection IP67 Environmental Protection Type Elastomer Sealed Primary Product Color Black Peripheral Seal Material Sillicone Shell Plating Material Nickel Shell Plating Material Copper Alloy Circular Connector Insulation Material Type Polyamide GF ITermetically Sealed Yes Contact Features Contact Features Contact Current Rating (Max) 4 A Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operation/Application Circular Application Signal	Electrical Characteristics	
O-Ring Material Silicone Environmental Protection IP67 Environmental Protection Type Elastomer Sealed Primary Product Color Black Peripheral Seal Material Silicone Shell Plating Material Nickel Shell Blase Material Copper Alloy Circular Connector Insulation Material Type Polyamide GF Hermetically Sealed Yes Contact Features Contact Features Contact Current Rating (Max) 4 A Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operation/Application Circuit Application Signal	Operating Voltage	250 VDC
Environmental Protection IP67 Environmental Protection Type Flastomer Sealed Primary Product Color Black Peripheral Seal Material Silicone Shell Plating Material Nickel Shell Base Material Copper Alloy Circular Connector Insulation Material Type Polyamide GF Hermetically Sealed Yes Contact Features Contact Features Contact Current Reting (Max) 4 A Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operation/Application Circuit Application Signal	Body Features	
Environmental Protection Type Primary Product Color Peripheral Seal Material Silicone Shell Plating Material Shell Base Material Copper Alloy Circular Connector Insulation Material Type Hermetically Sealed Yes Contact Features Contact Features Contact Current Rating (Max) A A Reverse Gender Ves Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operation/Application Circuit Application Signal	O-Ring Material	Silicone
Primary Product Color Peripheral Seal Material Silicone 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 Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size Usage Conditions IP Water Sealing Level Operating Temperature Range Operation/Application Circuit Application Signal	Environmental Protection	IP67
Peripheral Seal Material 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 Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operation/Application Circuit Application Signal	Environmental Protection Type	Elastomer Sealed
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 Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Primary Product Color	Black
Shell Base Material Circular Connector Insulation Material Type Polyamide GF Hermetically Sealed Yes Contact Features Contact Current Rating (Max) A A Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operating Temperature Range Circuit Application Circuit Application Circuit Application Signal	Peripheral Seal Material	Silicone
Circular Connector Insulation Material Type Hermetically Sealed Yes Contact Features Contact Current Rating (Max) Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operating Temperature Range Operation/Application Circuit Application Signal	Shell Plating Material	Nickel
Hermetically Sealed Yes Contact Features Contact Current Rating (Max) 4 A Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 –85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Shell Base Material	Copper Alloy
Contact Current Rating (Max) Reverse Gender Yes Circular Connector Contact Type Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operating Temperature Range Circuit Application Circuit Application Signal	Circular Connector Insulation Material Type	Polyamide GF
Contact Current Rating (Max) Reverse Gender Yes Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operating Temperature Range Operation/Application Circuit Application Signal	Hermetically Sealed	Yes
Reverse Gender Circular Connector Contact Type Pin Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operating Temperature Range Circuit Application Circuit Application Signal	Contact Features	
Circular Connector Contact Type Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Contact Current Rating (Max)	4 A
Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Reverse Gender	Yes
Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Circular Connector Contact Type	Pin
Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Mechanical Attachment	
Mating Alignment Type Housing Features Circular Connector Shell Size Usage Conditions IP Water Sealing Level Operating Temperature Range Operation/Application Circuit Application Keyed Keyed Head of the sealing Level Feature Range 18 IP67 Operation/Application Signal	Connector Mounting Type	Panel Mount
Housing Features Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Polarization Code	A
Circular Connector Shell Size 18 Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Mating Alignment Type	Keyed
Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Housing Features	
IP Water Sealing Level Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Circular Connector Shell Size	18
Operating Temperature Range -40 – 85 °C[-40 – 185 °F] Operation/Application Circuit Application Signal	Usage Conditions	
Operation/Application Circuit Application Signal	IP Water Sealing Level	IP67
Circuit Application Signal	Operating Temperature Range	-40 - 85 °C[-40 - 185 °F]
	Operation/Application	
Shielded	Circuit Application	Signal
	Shielded	No



Industry Standards

UL Flammability Rating	UL 94HB
Packaging Features	
Packaging Quantity	1
Other	
Field Serviceable	No

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	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 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (4% in 8747461309) 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 applicable for solder process capability

Product Compliance Disclaimer

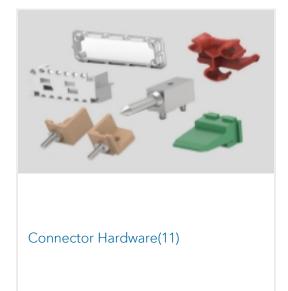
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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



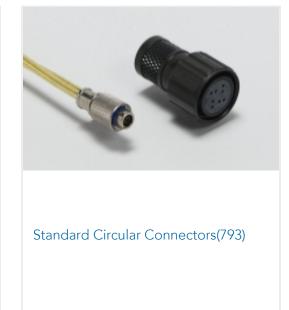


Also in the Series | M12 Connector









Customers Also Bought

















Documents

Product Drawings
M12,REAR MOUNTING,MALE,A CODE,2P

English

CAD Files
3D PDF

3D



Customer View Model

ENG_CVM_CVM_T4140012021-000_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_T4140012021-000_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_T4140012021-000_B.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

Agency Approvals

UL Report

English