

M12 Connector

TE Internal #: T4133012051-000

5 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 Solder Cups











Number of Positions: 5

Connector System: Wire-to-Panel

Sealable: Yes

Connector & Contact Terminates To: Wire & Cable

Contact Current Rating (Max): 4A

All M12 Panel Mount Solder Cups (56)

Keying & Polarized Position Locations

Factory Installed Backshell

Number of Positions

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	

А

No

5



Operating Voltage Body Features 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 Plating Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GF 25 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 A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 24 AWG Usage Conditions IP Water Sealing Level Poperature Range 40 - 85 °C[40 - 185 °F]		
Contacts Preloaded Yes Electrical Characteristics Operating Voltage 60 VDC Body Features Orking Material Silicone Environmental Protection IP67 Environmental Protection Iype Elastomer Scaled Primary Product Color Black Peripheral Seal Material Silicone Shell Plating Material Silicone Shell Plating Material Nickel Shell Base Material Nickel Shell Base Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GF25 Hermetically Scaled Yes Contact Features Contact Gurrent Rating (Max) 4 A Reverse Cender Yes Circular Connector Contact Type Socket Mechanical Attachment Connector Mounting Type Panel Mount Palarization Code A Mating Alignment Lyse Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level 1P67 Operating Temperature Range 40 – 65 °C(-40 – 185 °F)	Number of Power Positions	0
Electrical Characteristics Operating Voltage 60 VDC Body Features 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 Plating Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GF25 Hermetically Sealed Yes Contact Features Contact Current Rating (Max) 4 A Reverse Cender Yes Circular Connector Contact Type Socket Mechanical Attachment Connector Mounting Type Panel Mount Polerization Code A Mating Alignment Type Request Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range 41 POPER SIZE OF THE SIZE OF TH	Number of Signal Positions	5
Operating Voltage Body Features 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 Plating Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GF 25 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 A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 24 AWG Usage Conditions IP Water Sealing Level Poperature Range 40 - 85 °C[40 - 185 °F]	Contacts Preloaded	Yes
Body Features O-Ring Material Silicone Environmental Protection Environmental Protection Type Elastomer Sealed Primary Product Color Black Peripheral Seal Material Shell Plating Material Shell Plating Material Shell Base Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GI 25 Hermetically Sealed Ves Contact Features Contact Features Contact Current Rating (Max) 4 A Reverse Gender Ves Circular Connector Contact Type Socket Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code Ad Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range -40 – 85 °C[-40 – 185 °F]	Electrical Characteristics	
O-Ring Material Frivironmental Protection IP67 Linvironmental Protection Type Llastorner Sealed Primary Product Color Black Peripheral Seal Material Sillicone Shell Plating Material Shell Plating Material Shell Plating Material Shell Plating Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GF25 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 A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 — 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range -40 — 85 "C[-40 — 185 "F]	Operating Voltage	60 VDC
Environmental Protection IP67 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 66 GF25 Hermetically Sealed Yes Contact Features 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 A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range	Body Features	
Environmental Protection Type Primary Product Color Peripheral Seal Material Shell Plating Material Shell Plating Material Shell Base Material Copper Alloy Circular Connector Insulation Material Type Hermetically Sealed Yes Contact Features Contact Features Contact Current Rating (Max) Reverse Gender Yes Circular Connector Contact Type Socket Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range	O-Ring Material	Silicone
Primary Product Color Peripheral Seal Material Shell Plating Material Shell Base Material Shell Base Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GF25 Hermetically Sealed Yes Contact Features 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 A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range	Environmental Protection	IP67
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Shell Base Material Circular Connector Insulation Material Type Polyamide 66 GF25 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 A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range	Peripheral Seal Material	Silicone
Circular Connector Insulation Material Type 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 A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range Polyamide 66 GF25 Yes 4 A A A A B A A A A A A A A A	Shell Plating Material	Nickel
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 A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range	Shell Base Material	Copper Alloy
Contact Current Rating (Max) 4 A Reverse Gender Yes Circular Connector Contact Type Socket Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range	Circular Connector Insulation Material Type	Polyamide 66 GF25
Contact Current Rating (Max) Reverse Gender Yes Circular Connector Contact Type Socket Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range	Hermetically Sealed	Yes
Reverse Gender Circular Connector Contact Type Socket Mechanical Attachment Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range Yes Socket 18 Panel Mount 18 Eyed 18 18 18 18 18 18 18 18 18 1	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 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range Fanel Mount A Reyed Housing Features 18 18 18 18 18 18 18 18 18 1	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 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F]	Reverse Gender	Yes
Connector Mounting Type Panel Mount Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 - 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 - 85 °C[-40 - 185 °F]	Circular Connector Contact Type	Socket
Polarization Code A Mating Alignment Type Keyed Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 - 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 - 85 °C[-40 - 185 °F]	Mechanical Attachment	
Mating Alignment Type Housing Features Circular Connector Shell Size Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level Operating Temperature Range Keyed Keyed Keyed Keyed 18 – 24 AWG	Connector Mounting Type	Panel Mount
Housing Features Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F]	Polarization Code	A
Circular Connector Shell Size 18 Dimensions Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F]	Mating Alignment Type	Keyed
Dimensions Wire Size	Housing Features	
Wire Size 18 – 24 AWG Usage Conditions IP Water Sealing Level IP67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F]	Circular Connector Shell Size	18
Usage Conditions IP Water Sealing Level Operating Temperature Range IP67 -40 – 85 °C[-40 – 185 °F]	Dimensions	
IP Water Sealing Level Operating Temperature Range IP67 -40 – 85 °C[-40 – 185 °F]	Wire Size	18 – 24 AWG
IP Water Sealing Level Operating Temperature Range IP67 -40 – 85 °C[-40 – 185 °F]	Usage Conditions	
Operating Temperature Range -40 – 85 °C[-40 – 185 °F]		IP67
	Operation/Application	



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	Not Compliant
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 74024580) 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





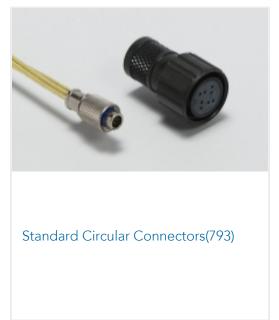


Also in the Series | M12 Connector





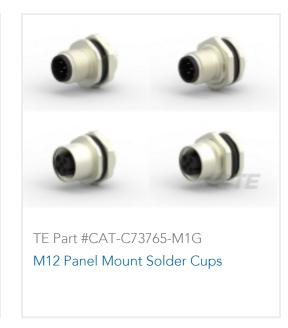




Customers Also Bought







Documents

Product Drawings

M12,FRONT MOUNT,FEMALE,A,5P,SOLDER WIRE

English

CAD Files

Customer View Model

ENG_CVM_CVM_T4133012051-000_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_T4133012051-000_B.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_T4133012051-000_B.2d_dxf.zip

English

3D PDF

5 Position Circular Connector, Wire-to-Panel, Sealable, Wire & Cable, Signal, Panel Mount, Reverse Gender, Nickel, Copper Alloy, A Code, M12 Connector



3D

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