



M12 Connector

TE Internal #: T4145015081-002

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

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Connectors > Circular Connectors > Standard Circular Connectors



Connector System: **Wire-to-Panel**  
Connector Mounting Type: **Panel Mount**  
Number of Positions: **8**  
Sealable: **Yes**  
Connector & Contact Terminates To: **Wire & Cable**

Features

Product Type Features

Product Type	Connector Assembly
Accessory Color	Black
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

Keying & Polarized Position Locations	0
Number of Positions	8



Number of Power Positions	0
Number of Signal Positions	8
Contacts Preloaded	Yes

Electrical Characteristics

Operating Voltage	30 VAC
Voltage	30 Vrms

Body Features

Peripheral Seal Material	Silicone
Environmental Protection	IP67
Weight	11.94 g[.026 lb]
O-Ring Material	Silicone
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)	2 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
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Usage Conditions

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

Operation/Application

Circuit Application	Signal
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Shielded

No

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
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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2023 (235) SVHC > Threshold: Pb (4% in Pb-Alloy in Copper) <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 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>


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




Connector Caps & Covers(5)




Connector Hardware(12)



Connector Seals & Cavity Plugs(4)



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(803)

Customers Also Bought



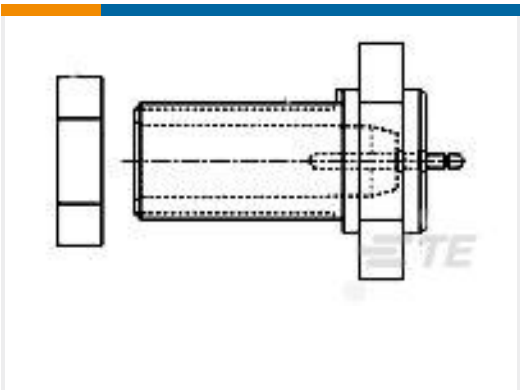
TE Part #Y2428-024-24050000  
BKSHL, 24SZ, BLK, ST, L024, HDP



TE Part #T4145035051-001  
M12 R/A F PNL STAMPED PIN A-CODE 5P SHLD



TE Part #T4162113004-005  
RPC-M12-4MS-5.0SH-M12-4FS-PVC



TE Part #861611-1  
RECEPTACLE



TE Part #7-1879208-3  
CPF 0402 10K 0.1% 25PPM 1K RL



TE Part #1838275-4  
M12 Fld Ser CONN. Male Pin Sldr



TE Part #1703998-1  
92POS,AMP MCP1.5K,SOCK HSG, ASSY,SEALED



TE Part #1060-20-0222  
PIN, SF, SIZE 20, 16-22, NI/NI



TE Part #284697-E  
SRCP 1,27 4 M 1 SMD 137 E1 094 \* GU-H \*

Document



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

English

Customer View Model

ENG\_CVM\_CVM\_T4145015081-002\_A.3d\_stp.zip

English

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Product Specifications

Application Specification

English