



M12 Connector

TE Internal #: T4140012051-000

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 PCB



Number of Positions: 5

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

Sealable: **Yes**

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

Contact Current Rating (Max): **4 A**

[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
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Plug
Shell Type	Metal

Configuration Features

Keying & Polarized Position Locations	A
Factory Installed Backshell	No
Number of Positions	5



Number of Power Positions	0
Number of Signal Positions	5
Contacts Preloaded	Yes

Electrical Characteristics

Operating Voltage	60 VDC
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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 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

Termination Features

Termination Method to PCB	Through Hole - Solder
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Mechanical Attachment

Mating Retention Type	Threaded Coupling
Panel Mount Feature Type	Screw Nut
Mating Alignment	With
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 Water Sealing Level	IP67
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Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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	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 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

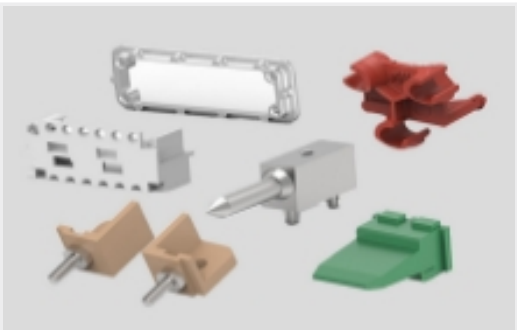


on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts

 TE Part # TAA755A5501-A04 M12A5-MS-FS-PUR-7.5M	 TE Part # TAA755A5501-A03 M12A5-MS-FS-PUR-6.0M	 TE Part # TAA755A5501-A01 M12A5-MS-FS-PUR-3.0M	 TE Part # TAA755A5501-A08 M12A5-MS-FS-PUR-20.0M
 TE Part # TAA755A5501-A12 M12A5-MS-FS-PUR-60.0M	 TE Part # TAA755A5501-A06 M12A5-MS-FS-PUR-15.0M	 TE Part # TAA755A5501-A09 M12A5-MS-FS-PUR-25.0M	 TE Part # T4110002051-000 M12,FEMALE,STRAIGHT,A CODE,5P, PG9,GOLD
 TE Part # TAA755A5501-A11 M12A5-MS-FS-PUR-45.0M	 TE Part # TAA755A5501-A13 M12A5-MS-FS-PUR-75.0M	 TE Part # TAA755A5501-A05 M12A5-MS-FS-PUR-10.0M	 TE Part # 1838892-3 M12 Mtl FEMALE PNL CONN. PCB Front (Hex)
 TE Part # TAA755A5501-A02 M12A5-MS-FS-PUR-4.5M	 TE Part # TAA755A5501-A10 M12A5-MS-FS-PUR-35.0M	 TE Part # TAA755A5501-A07 M12A5-MS-FS-PUR-18.0M	

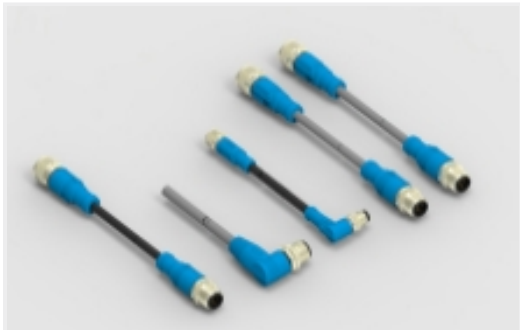
Also in the Series | M12 Connector



Connector Hardware(11)



Connector Seals & Cavity Plugs(4)

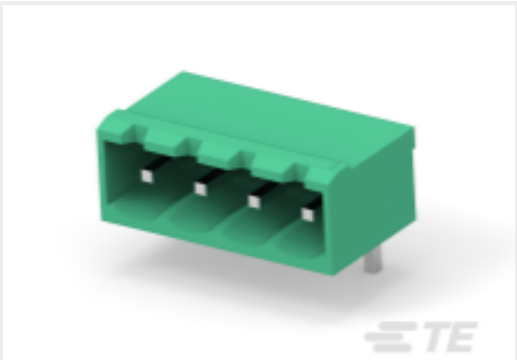


M8/M12 Cable Assemblies(230)



Standard Circular Connectors(793)

Customers Also Bought



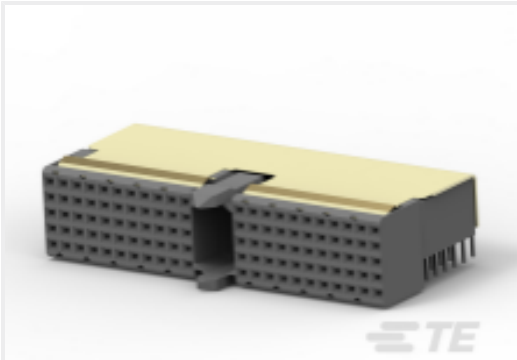
TE Part #2350513-4
4POS TB HDR 90 DEG, PITCH 5.0 & TL 4.5mm



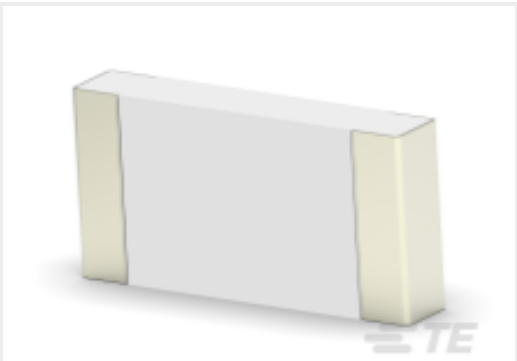
TE Part #CAT-C73765-M1H
M12 Panel Mount PCB



TE Part #2331383-1
DET SW5.0X4.40X1.5 GW HORZ. NO AG RL



TE Part #3-352068-0
Z-PACK/A F-HDR 110P



TE Part #1-2176245-3
CRGS1206 5% 10R



TE Part #3-1623774-1
C14 3K3 5% (LOOSE)



TE Part #2-103639-5
02 MTE HDR SRST LATCH .100CL



TE Part #803744-SF
FN9222-6-06

Documents

Product Drawings

M12,REAR MOUNTING,MALE,A CODE,5P

English

CAD Files

Customer View Model

ENG_CVM_CVM_T4140012051-000_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_T4140012051-000_B.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_T4140012051-000_B.2d_dxf.zip

English

3D PDF

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