



M12 Connector

TE Internal #: 6-2271129-2

Cable-to-Cable, 12 Position, Sealable, Wire & Cable, Signal, Reverse Gender, Nickel, Zinc Alloy, M12 Connector, Standard Circular Connectors

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Connectors > Circular Connectors > Standard Circular Connectors



Connector System: **Cable-to-Cable**
Number of Positions: **12**
Sealable: **Yes**
Connector & Contact Terminates To: **Wire & Cable**
Contact Current Rating (Max): **1.5 A**

Features

Product Type Features

Connector System	Cable-to-Cable
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Receptacle
Shell Type	Metal
Assembly Requirement	Factory Assembled
Circular Connector Shell Type	Metal-Shell
Connector Product Type	Connector Assembly
Assembly Type	Electrical Connector
Prewired	No

Configuration Features

Number of Positions	12
Number of Power Positions	0
Number of Signal Positions	12



Contacts Preloaded	Yes
Keying & Polarized Position Locations	A
Factory Installed Backshell	With

Contact Features

Contact Current Rating (Max)	1.5 A
Reverse Gender	Yes
Circular Connector Contact Type	Socket

Operation/Application

Circuit Application	Signal
Shielded	Yes

Body Features

Shell Plating Material	Nickel
Shell Base Material	Zinc Alloy
Circular Connector Insulation Material Type	Polyamide 66 GF25
Hermetically Sealed	Yes
Environmental Protection	IP67
Environmental Protection Type	Sealed
Primary Product Color	Metalized Silver

Mechanical Attachment

Polarization Code	A
Mating Alignment Type	Keyed
Mating Retention	With
Mating Retention Type	Threaded
Mating Alignment	With

Dimensions

Wire Size	.258 mm ²
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Housing Features

Circular Connector Shell Size	20
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Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
IP Water Sealing Level	IP67

Other



EU RoHS Compliance	Compliant with Exemptions
EU ELV Compliance	Compliant

Electrical Characteristics

EMI & RFI Protection & Suppression Type	Shielding
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Termination Features

Termination Method to Wire & Cable	Solder
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Industry Standards

Compatible With Approved Standards Products	IEC
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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
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 2024 (241) SVHC > Threshold: Pb (4% 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



TE Part # 6-2271111-2
M12, MALE, A CODE, 12P, PG9, SHIELDED(AU)



TE Part # 484784-E
M12 MALE, A CODE, 12P, 10.5MM SMT

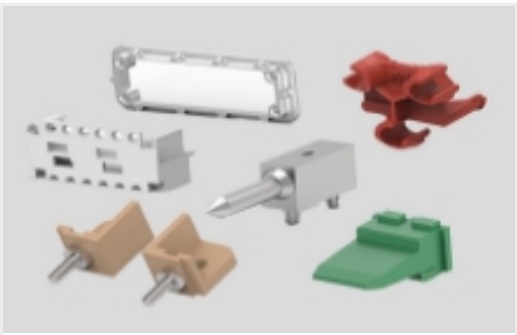


TE Part # 454643-E
M12 MALE, A CODE, 12P, 10.5MM SMT



TE Part # 494518-E
M12 MALE, A CODE, 12P, 10.5MM SMT

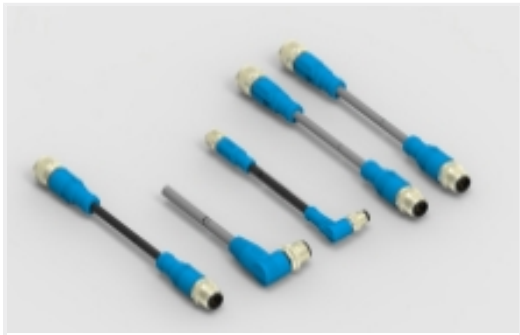
Also in the Series | M12 Connector



Connector Hardware(11)



Connector Seals & Cavity Plugs(4)



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(793)

Customers Also Bought



TE Part #T4142012121-000
M12,FRONT MOUNT,MALE, A,12P, SOLDER PCB



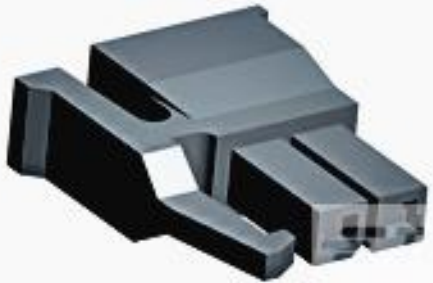
TE Part #1977477-3
Module Dual Barrier, .325 CL, 3 Pos.



TE Part #5-2154874-2
LED Holder for Cree CXA15XX (1pc)



TE Part #2-2176094-8
RP 2A 0.25W 232K 0.1% 25PPM 1K RL



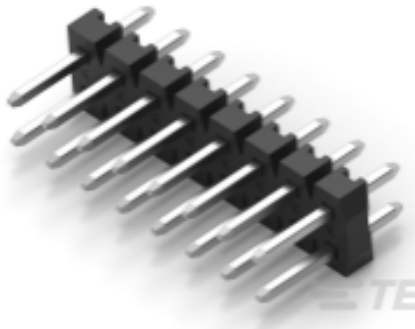
TE Part #2008570-2
2 POS MICRO MNL, SIDE LATCH, B



TE Part #CON SMA012-R178
SMA Plug 50 Ohm Cable Crimp



TE Part #225777-E
POWELM STIFT VOLL M5 8 2,54 * EP 4,0 *



TE Part #2842138-7
14P,2MM,BRK HDR,DRV T,2.8,0.1AU, BOX



TE Part #6-2271123-2
M12,MALE,A CODE,R/A,12P,PG9, SHIELDED(AU)



Documents

Product Drawings

M12,FEMALE,A CODE,R/A,12P,PG9,SHIELD(AU)

English

CAD Files

Customer View Model

ENG_CVM_CVM_6-2271129-2_A1.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6-2271129-2_A1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6-2271129-2_A1.3d_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

Product Specifications

Product Specification

English