



M12 Connector

TE Internal #: 6-2271129-2

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

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors



Number of Positions: 12

Connector System: Cable-to-Cable

Sealable: Yes

Connector & Contact Terminates To: Wire & Cable

Contact Current Rating (Max): 1.5 A

Features

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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Usage Conditions

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

Mechanical Attachment

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



Mating Retention	With
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Body Features

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

Product Type Features

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

Configuration Features

Keying & Polarized Position Locations	A
Factory Installed Backshell	With
Number of Positions	12
Number of Power Positions	0
Number of Signal Positions	12
Contacts Preloaded	Yes

Contact Features

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

Housing Features

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Circular Connector Shell Size	20
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Dimensions

Wire Size	24 AWG
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Operation/Application

Circuit Application	Signal
Shielded	Yes

Other

EU RoHS Compliance	Compliant with Exemptions
EU ELV Compliance	Compliant

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



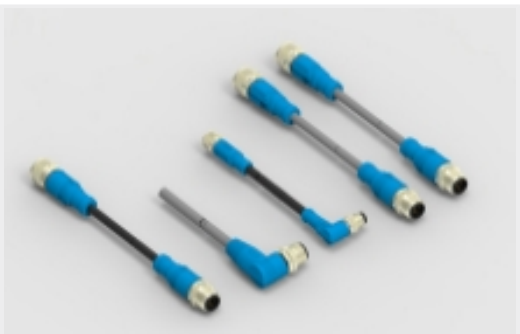

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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



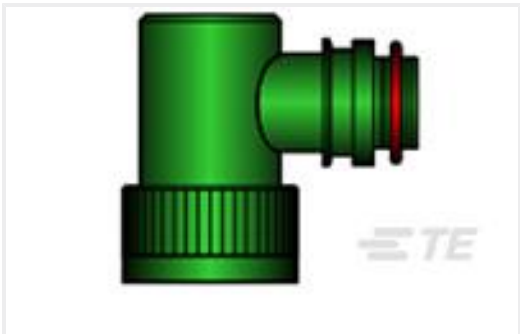







Compatible Parts

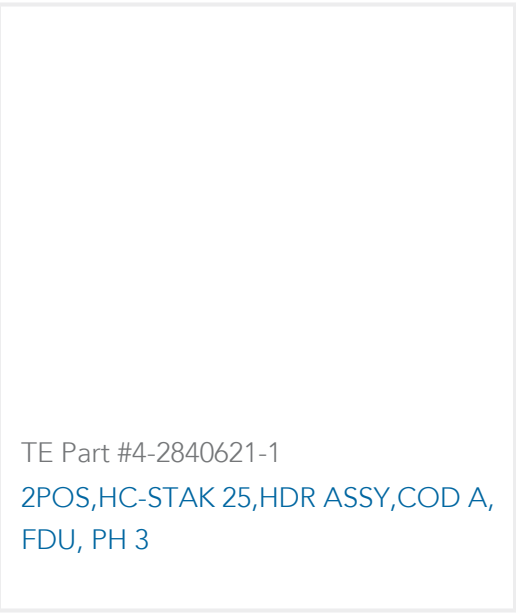
 <p>TE Part # 494518-E M12 MALE, A CODE, 12P, 10.5MM SMT</p>	 <p>TE Part # 6-2271111-2 M12, MALE, A CODE, 12P, PG9, SHIELDED(AU)</p>	 <p>TE Part # 454643-E M12 MALE, A CODE, 12P, 10.5MM SMT</p>	 <p>TE Part # 484784-E M12 MALE, A CODE, 12P, 10.5MM SMT</p>
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Also in the Series | M12 Connector

 <p>Connector Hardware(11)</p>	 <p>Connector Seals & Cavity Plugs(4)</p>	 <p>M8/M12 Cable Assemblies(230)</p>	 <p>Standard Circular Connectors(793)</p>
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Customers Also Bought

 <p>TE Part #411971-000 TXR40AB90-1007AI</p>	 <p>TE Part #1532210-1 M83513/01-BN, MCKS-N1-B-15PS</p>	 <p>TE Part #1977477-2 Module Dual Barrier, .325 CL, 2 Pos.</p>	 <p>TE Part #1977477-3 Module Dual Barrier, .325 CL, 3 Pos.</p>
 <p>TE Part #2029047-3 3P MICRO MNL RCPT HSG SR SIDE</p>	 <p>TE Part #ANT-DB1-LCD-RPS Antenna 2.4/5.8GHz Dipole Tilt Swivel RP</p>	 <p>TE Part #1-2176341-4 CRGCQ 0805 120R 1%</p>	 <p>TE Part #2029030-3 3P MICRO MNL HDR ASY SR SIDE L</p>



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