

M12 Connector

TE Internal #: 3-2172097-2

Cable-to-Cable, Circular Connector Receptacle, 0 Position, Wire & Cable, Power, Cable Mount (Free-Hanging), Reverse Gender, Nickel, M12 Connector

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors

Connector System: **Cable-to-Cable**Connector Mounting Type: **Cable Mount (Free-Hanging)**Number of Positions: **0**Connector & Contact Terminates To: **Wire & Cable**Contact Current Rating (Max): **12 A**

Features

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
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Circular Connector Receptacle
Shell Type	Metal

Configuration Features

Keying & Polarized Position Locations	Normal
Factory Installed Backshell	With
Number of Positions	0
Number of Power Positions	0

Number of Signal Positions	0
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Contacts Preloaded	Yes
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Electrical Characteristics

Operating Voltage	60 VDC
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EMI & RFI Protection & Suppression Type	Shielding
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Body Features

Primary Product Color	Metalized Silver
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Shell Plating Material	Nickel
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Circular Connector Insulation Material Type	PA
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Hermetically Sealed	Yes
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Contact Features

Contact Current Rating (Max)	12 A
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Reverse Gender	Yes
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Circular Connector Contact Type	Socket
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Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

Mating Retention Type	Threaded
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Mating Alignment	With
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Connector Mounting Type	Cable Mount (Free-Hanging)
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Polarization Code	T
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Mating Alignment Type	Keyed
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Mating Retention	With
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Dimensions

Wire Size	22 – 16 AWG
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Usage Conditions

IP Dust Sealing Level	6
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IP Water Sealing Level	IP67
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Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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Operation/Application

Circuit Application	Power
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Industry Standards

Compatible With Approved Standards Products

IEC

Packaging Features

Packaging Quantity

1

Product ComplianceFor 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	有害物质含量超出标准 Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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 < 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

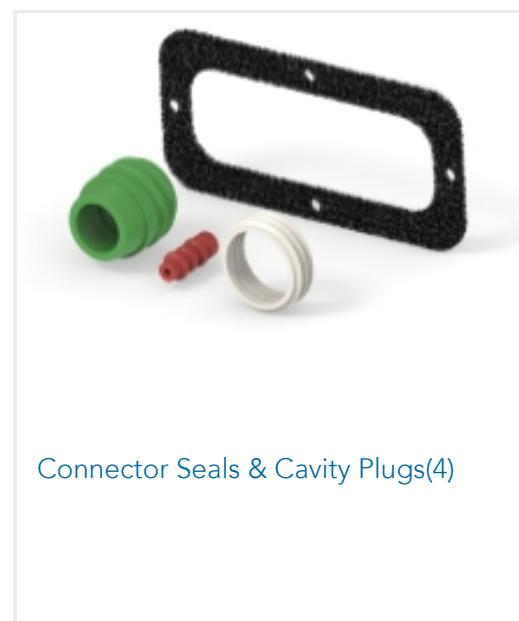


TE Part # 3-2172096-2
M12 MALE CABLE CONNECTOR-T-CODING-SHLD

Also in the Series | M12 Connector



Connector Hardware(11)



Connector Seals & Cavity Plugs(4)



Standard Circular Connectors(704)

Customers Also Bought



TE Part #114017-ZZ
SEALING PLUG, SIZE 12/16, WHT



TE Part #DT06-2S
PLG, 2P, GRY, N



TE Part #CAT-D487-W416
Wedgelocks: DEUTSCH DT



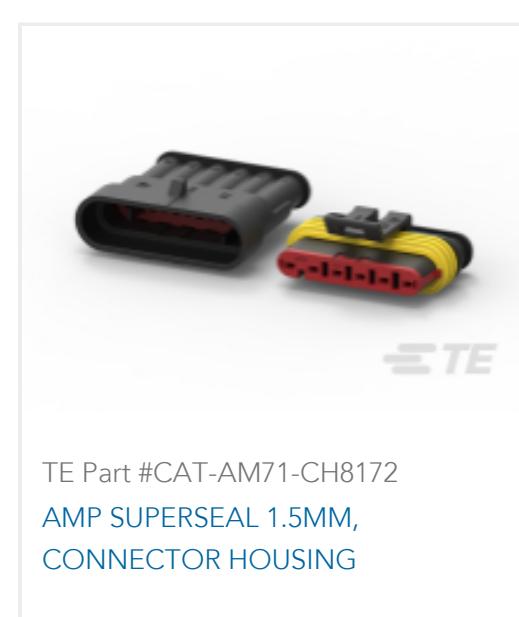
TE Part #CAT-D48-ST273
DEUTSCH Connector Solid Contacts



TE Part #DT04-2P
REC, 2P, GRY, N



TE Part #281934-2
SINGLE WIRE SEAL



TE Part #CAT-AM71-CH8172
AMP SUPERSEAL 1.5MM, CONNECTOR HOUSING

Documents

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_3-2172097-2_A.2d_dxf.zip](#)

English

Customer View Model[ENG_CVM_CVM_3-2172097-2_A.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_CVM_3-2172097-2_A.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](#)

Japanese

[M8 / M12 Connector System Catalog](#)

English

Product Specifications[Product Specification](#)

English