



M12 Connector

TE Internal #: 1-2823448-3

8 Position Circular Connector, Cable-to-Cable, Sealable, Wire & Cable, Signal, Reverse Gender, Plastic, A Code, M12 Connector

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors > M12 Straight Crimped Strain Relief



Number of Positions: 8

Connector System: **Cable-to-Cable**

Sealable: **Yes**

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

Contact Current Rating (Max): **2 A**

[All M12 Straight Crimped Strain Relief \(53\)](#)

Features

Product Type Features

| | |
|-----------------------------------|----------------------|
| Assembly Requirement | Factory Assembled |
| Circular Connector Shell Type | All Plastic |
| 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 | Plastic |

Configuration Features

| | |
|---------------------------------------|------|
| Keying & Polarized Position Locations | A |
| Factory Installed Backshell | With |



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

Electrical Characteristics

| | |
|---|-----------|
| Operating Voltage | 30 VDC |
| EMI & RFI Protection & Suppression Type | Shielding |

Body Features

| | |
|---|-------------------------------|
| Product Weight | 25 g[.8832 oz] |
| O-Ring Material | Silicone Rubber |
| Environmental Protection | IP67 |
| Environmental Protection Type | Sealed |
| Primary Product Color | Black |
| Shell Base Material | Plastic |
| Circular Connector Insulation Material Type | Low Fire Hazard Thermoplastic |
| Hermetically Sealed | Yes |

Contact Features

| | |
|---------------------------------|--------|
| Contact Current Rating (Max) | 2 A |
| Reverse Gender | Yes |
| Circular Connector Contact Type | Socket |

Termination Features

| | |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

Mechanical Attachment

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

Housing Features

| | |
|-------------------------------|----|
| Circular Connector Shell Size | 16 |
|-------------------------------|----|

Dimensions

| | |
|-----------|--------|
| Wire Size | 26 AWG |
|-----------|--------|



Usage Conditions

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

Operation/Application

| | |
|---------------------|------------|
| Durability Rating | 250 Cycles |
| Circuit Application | Signal |
| Shielded | Yes |

Industry Standards

| | |
|---|-----|
| Compatible With Approved Standards Products | IEC |
|---|-----|

Packaging Features

| | |
|--------------------|---|
| Packaging Quantity | 1 |
|--------------------|---|

Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

| | |
|---|--|
| EU RoHS Directive 2011/65/EU | Not Compliant |
| 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: JAN 2025 (247) Candidate List Declared Against: JAN 2024 (240) SVHC > Threshold: Pb (3% 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 # 1-2823557-1
CRIMP TOOL FOR CRIMP FLANGE /SLEEVE




TE Part # 1-2823560-1
ASSEMBLY TOOL HANDLE FOR CRIMP FLANGE




TE Part # 1-2823561-1
UNIVERSAL INSERT (ALL M12 CODES)




TE Part # CAT-M1-M1
M12 Assembly Tooling



TE Part # 601966-1
CRIMPING TOOL M22520/2-01




TE Part # CAT-R131-IN722
Crimp Insert for Use with 1-2823557-1




TE Part # 601967-1
CRIMPING TOOL M22520/1-01

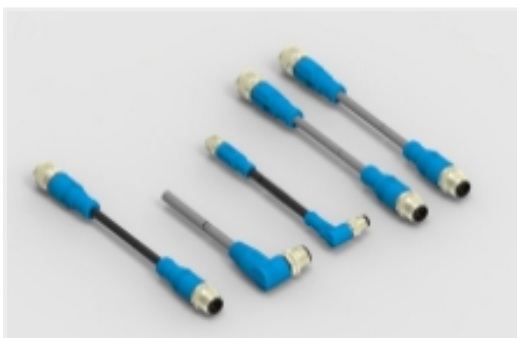
Also in the Series | M12 Connector




Connector Hardware(11)



Connector Seals & Cavity Plugs(4)



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(793)

Customers Also Bought



TE Part #1546051-1
PLZN.KEY,TERMI-BLOK HDR



TE Part #1375819-1
CST-100 II CONTACT TIN PLT



TE Part #CAT-Z35-GPPRM
SCHRACK SNR Slimline Relay Package



TE Part #1-104482-8
40 SHORT PT RCPT HSG DR .100CL





TE Part #2-111623-4
40, 2MM, POL,30 DP, LEAD FREE



TE Part #2342832-7
AVC16M FLAT AIO RGB R 500MM/2X3



TE Part #1-2823450-4
M12 A-F-8, CAT 5 RADOX 7.3MM, H&S



TE Part #2-1416100-0
ST3FLC4



TE Part #142270-5
CONNECTOR SHUNT 2 P

Documents

Product Drawings

M12 A-F-8 CRI ST CAT 5 MEGALI 5.3MM,LEON

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-2823448-3_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-2823448-3_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-2823448-3_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

M12 RAIL CONNECTOR SERIES

English

M12 Rail Straight Connector

English

Product Specifications

Product Specification

English

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