



TE Internal #: 1-2823448-1  
 Standard Circular Connectors, Cable-to-Cable, 8 Position, Sealable,  
 Wire & Cable, 2A Contact Current Rating (Max), Signal, Cable  
 Mount (Free-Hanging)

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Connectors > Circular Connectors > Standard Circular Connectors > M12 STRAIGHT CRIMPED STRAIN RELIEF



Connector System: **Cable-to-Cable**  
 Number of Positions: **8**  
 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

|                                   |                  |
|-----------------------------------|------------------|
| Product Type                      | Connector Kit    |
| Connector System                  | Cable-to-Cable   |
| Sealable                          | Yes              |
| Connector & Contact Terminates To | Wire & Cable     |
| Circular Connector Type           | Receptacle       |
| Shell Type                        | Full Metal Shell |

### Configuration Features

|                     |    |
|---------------------|----|
| Number of Positions | 8  |
| Contacts Preloaded  | No |

### Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 30 VDC |
|-------------------|--------|

### Signal Characteristics

|           |        |
|-----------|--------|
| Data Rate | 1 Gb/s |
|-----------|--------|

### Body Features

|                          |                |
|--------------------------|----------------|
| Environmental Protection | Yes            |
| Weight                   | 25 g[.0552 lb] |



|   |                               |
|---|-------------------------------|
| Environmental Protection Type               | Elastomer Sealed              |
| Shell Plating Material                      | Nickel                        |
| Shell Base Material                         | Brass                         |
| Circular Connector Insulation Material Type | Low Fire Hazard Thermoplastic |
| Hermetically Sealed                         | Yes                           |

### Contact Features

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

### Mechanical Attachment

|                         |                            |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
| Polarization Code       | A                          |
| Mating Alignment Type   | Keyed                      |
| Mating Retention        | With                       |

### Dimensions

|  |        |
|--|--------|
| Accepts Wire Insulation Diameter Range | 8.4 mm |
| Wire Size                              | 22 AWG |

### Usage Conditions

|                             |  |
|-----------------------------|--|
| IP Dust Sealing Level       | 6  |
| IP Water Sealing Level      | 7  |
| Operating Temperature Range | -40 – 70 °C, -40 – 85 °C[-40 – 158 °F][-40 – 185 °F][-40 – 185 °F] |

### Operation/Application

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

### Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

### Packaging Features

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

### Other

|                   |     |
|-------------------|-----|
| Field Serviceable | Yes |
|-------------------|-----|



## 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 2021 (211)<br>Candidate List Declared Against: JAN 2021 (211)<br>SVHC > Threshold:<br>Pb (3% in Component Part)<br><b>Article Safe Usage Statements:</b><br>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 # 1-2823557-1<br/>CRIMP TOOL FOR CRIMP FLANGE /SLEEVE</p> |  <p>TE Part # 1-2823560-1<br/>ASSEMBLY TOOL HANDLE FOR CRIMP FLANGE</p> |  <p>TE Part # 1-2823561-1<br/>UNIVERSAL INSERT (ALL M12 CODES)</p> |  <p>TE Part # CAT-M1-M1<br/>M12 ASSEMBLY TOOLING</p> |
|--|--|---|---|



## Customers Also Bought



## Documents

### Product Drawings

[M12 A-F-8 CRIMP ST,CAT7 RADOX8.2MM,H&S](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823448-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823448-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823448-1\\_A.3d\\_stp.zip](#)

English

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**Datasheets & Catalog Pages**

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**Product Specifications**

**Application Specification**

English