



**M12 Rail Bulkhead PCB**

TE Internal #: 1-2823590-8

Standard Circular Connectors, Cable-to-Cable, 8 Position, Sealable, Printed Circuit Board, Signal, Cable Mount (Free-Hanging), M12 Rail Bulkhead PCB

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors > M12 PCB MOUNTED



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

Number of Positions: **8**

Sealable: **Yes**

Connector & Contact Terminates To: **Printed Circuit Board**

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

[All M12 PCB MOUNTED \(12\)](#)

**Features**

**Product Type Features**

|                                   |                       |
|-----------------------------------|-----------------------|
| Product Type                      | Lead Assembly         |
| Connector System                  | Cable-to-Cable        |
| Sealable                          | Yes                   |
| Connector & Contact Terminates To | Printed Circuit Board |
| Circular Connector Type           | Receptacle            |
| Shell Type                        | Full Metal Shell      |

**Configuration Features**

|                     |     |
|---------------------|-----|
| Number of Positions | 8   |
| Contacts Preloaded  | Yes |

**Electrical Characteristics**

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

**Signal Characteristics**

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

**Body Features**

|                               |                  |
|-------------------------------|------------------|
| Environmental Protection Type | Elastomer Sealed |
|-------------------------------|------------------|



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

#### Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| IP Water Sealing Level      | 7                         |
| IP Dust Sealing Level       | 6                         |
| Operating Temperature Range | -40 – 85 °C[-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 | Compliant with Exemptions |
|------------------------------|---------------------------|



EU ELV Directive 2000/53/EC

Not Yet Reviewed

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 2022 (224)

Candidate List Declared Against: JUNE 2022 (224)

SVHC > Threshold:

Pb (3.5% 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 # CAT-R131-IN722  
Crimp Insert for Use with 1-2823557-1



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



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

## Also in the Series | [M12 Rail Bulkhead PCB](#)



[Standard Circular Connectors\(13\)](#)

### Documents

#### Product Drawings

[M12 A-CODE 8,FEMALE REAR PANEL MOUNT](#)

English

#### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823590-8\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823590-8\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823590-8\\_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 PCB Connector Flyer](#)

English