



Connectors > Circular Connectors > Standard Circular Connectors



Connector System: **Cable-to-Board**  
Connector Mounting Type: **Board Mount**  
Number of Positions: **6**  
Sealable: **No**  
Connector & Contact Terminates To: **Printed Circuit Board**

Features

Product Type Features

|                                   |                               |
|-----------------------------------|-------------------------------|
| Connector Product Type            | Connector Assembly            |
| Connector System                  | Cable-to-Board                |
| Sealable                          | No                            |
| Connector & Contact Terminates To | Printed Circuit Board         |
| Circular Connector Type           | Circular Connector Receptacle |

Configuration Features

|                     |     |
|---------------------|-----|
| Number of Positions | 6   |
| Contacts Preloaded  | Yes |

Body Features

|                          |            |
|--------------------------|------------|
| Environmental Protection | IP65, IP67 |
|--------------------------|------------|

Contact Features

|                                 |        |
|---------------------------------|--------|
| Contact Current Rating (Max)    | 3 A    |
| Reverse Gender                  | No     |
| Circular Connector Contact Type | Socket |



Termination Features

|                           |               |
|---------------------------|---------------|
| Termination Method to PCB | Surface Mount |
|---------------------------|---------------|

Mechanical Attachment

|                         |              |
|-------------------------|--------------|
| Mating Alignment        | With         |
| PCB Mount Retention     | With         |
| PCB Mount Alignment     | With         |
| Connector Mounting Type | Board Mount  |
| Polarization Code       | A            |
| Mating Alignment Type   | Polarization |
| Mating Retention        | Without      |

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -25 – 85 °C[-13 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

|                     |                                 |
|---------------------|---------------------------------|
| Durability Rating   | 100 Cycles                      |
| Circuit Application | Power, Signal & High Speed Data |
| Shielded            | No                              |

Industry Standards

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

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 with Exemptions                                                                                                                                                                                                                                                                                                                                                                                                            |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量超出标准<br>Restricted Substance(s) Above Threshold                                                                                                                                                                                                                                                                                                                                                                                |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: FEB 2026 (253)<br>Candidate List Declared Against: JUNE 2023 (235)<br>SVHC > Threshold:<br>Pb (1% in Component Part)<br><small>Article Safe Usage Statements:<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.</small> |
| Halogen Content                               | Not Yet Reviewed for halogen content                                                                                                                                                                                                                                                                                                                                                                                                 |
| Solder Process Capability                     | Not reviewed for solder process capability                                                                                                                                                                                                                                                                                                                                                                                           |



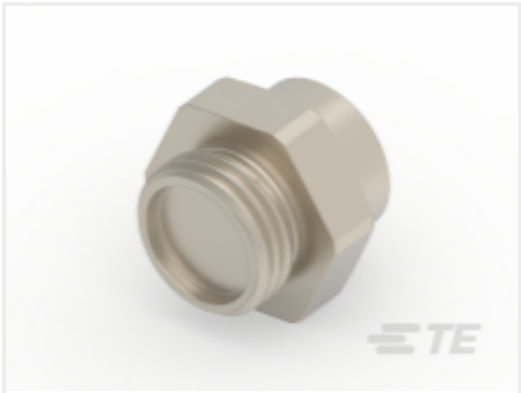
Product Compliance Disclaimer

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 # 464561-E  
M8 FEMALE, A CODE, 6P, 16.25MM SMT



TE Part # 254154-E  
M8 METAL SHELL, FEMALE, VERT, 9MM



TE Part # 284067-E  
M8 METAL SHELL, FEMALE, VERT, 13MM

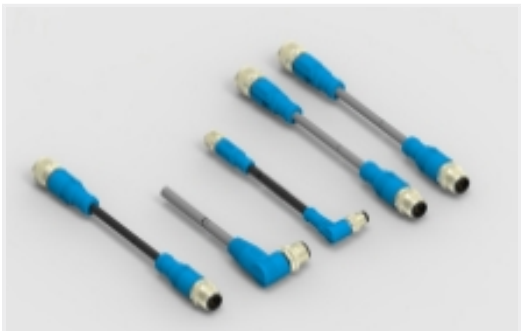


TE Part # 464432-E  
M8 FEMALE, A CODE, 4P, 16.25MM SMT

Also in the Series | M8 Connector



Connector Hardware(4)



M8/M12 Cable Assemblies(2)



Standard Circular Connectors(90)

Customers Also Bought



TE Part #454949-E  
M12 FEMALE, D CODE, 4P, 17MM SMT



TE Part #224064-E  
M12 FEMALE, A CODE, 5P, 17MM SMT



TE Part #464561-E  
M8 FEMALE, A CODE, 6P, 16.25MM SMT



TE Part #1-641737-1  
04P CMNL HDR ASSY R/A V0



Documents

Product Drawings

M8 FEMALE, A CODE, 6P, 16.25MM SMT

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_515814-E\_1.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_515814-E\_1.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_CVM\_515814-E\_1.2d\_dxf.zip

English

3D PDF

3D

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

Datasheets & Catalog Pages

ERNI M8M12 Circular Connectors

English

ERNI M8M12 Circular Connectors

German

Product Specifications

Application Specification

English



Agency Approvals

UL

English