



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

Entry Style	Top
Environmental Protection	IP65, IP67

Contact Features

Contact Current Rating (Max)	3 A
Reverse Gender	No



Circular Connector Contact Type	Socket
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Termination Features

Termination Method to PCB	Surface Mount
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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

Dimensions

Assembly Length	16.25 mm
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Usage Conditions

Operating Temperature Range	-25 – 85 °C[-13 – 185 °F]
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Operation/Application

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

Industry Standards

UL Flammability Rating	UL 94V-0
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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 Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: FEB 2026 (253) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold: Pb (1.5%) 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	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 # 464432-E
M8 FEMALE, A CODE, 4P, 16.25MM SMT



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

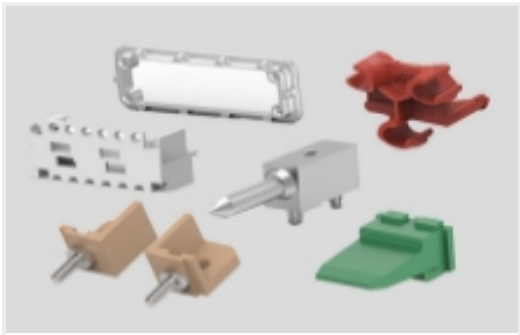


TE Part # 284067-E
M8 METAL SHELL, FEMALE, VERT, 13MM

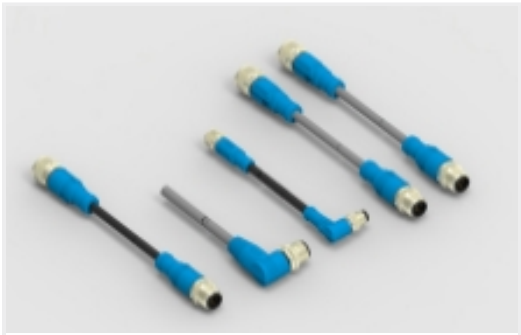


TE Part # 515814-E
M8 FEMALE, A CODE, 6P, 16.25MM SMT

Also in the Series | M8 Connector



Connector Hardware(4)



M8/M12 Cable Assemblies(2)



Standard Circular Connectors(90)

Customers Also Bought





TE Part #T4071017041-001
M8.FMLE.PNLREAR.4POS.STR WIRE



TE Part #494166-E
M12 FEMALE, A CODE, 8P, 17MM SMT



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



TE Part #515814-E
M8 FEMALE, A CODE, 6P, 16.25MM SMT



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



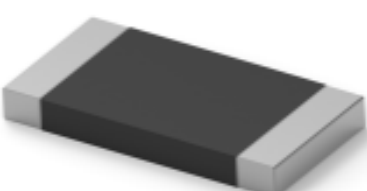
TE Part #1-641737-1
04P CMNL HDR ASSY R/A V0



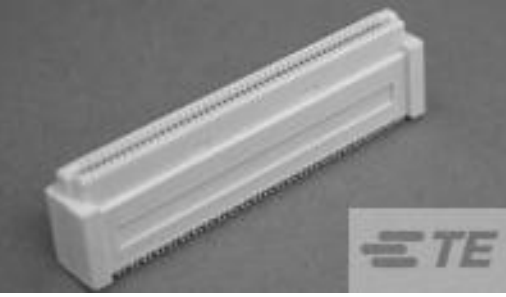
TE Part #1551920-2
zQSFP+ connector assembly



TE Part #2176328-7
CRGP 1206 33R 1%



TE Part #8-2176421-4
TLRP 2512 2.0W R039 1% 75PPM 4K RL



TE Part #5084616-2
0.8FH,R13H.5,060,08/Sn,TR,SC

Documents

Product Drawings

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

English

CAD Files

Customer View Model

ENG_CVM_CVM_464561-E_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_464561-E_1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_464561-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