

494166-E ✓ ACTIVE

ERNI | M12 Connector

TE Internal #: 494166-E

Cable-to-Board, Circular Connector Receptacle, 8 Position, Printed Circuit Board, Power, Signal & High Speed Data, Board Mount, Code A, M12 Connector

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Connectors > Circular Connectors > Standard Circular Connectors



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

Connector Mounting Type: **Board Mount**

Number of Positions: **8**

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	8
Contacts Preloaded	Yes

### Body Features

Environmental Protection	IP65, IP67
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### Contact Features

Contact Current Rating (Max)	4 A
Reverse Gender	No
Circular Connector Contact Type	Socket



### 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	17 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	Not Yet Reviewed
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: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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 < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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Solder Process Capability	Not reviewed for solder process capability
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**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 # 374343-E  
CCA PC M12 \* F \*\*\*\*\* J 3 22553



TE Part # CAT-C73765-M1E  
M12 Field Installable Unshielded



TE Part # 394828-E  
M12 METAL SHELL, FEMALE, VERT, 9MM, C6A



TE Part # T4151120008-001  
RPC-M12-MS-8CON-PUR-0.5




TE Part # 394847-E  
M12 METAL SHELL, FEMALE, VERT, 13MM, C6A


## Also in the Series | M12 Connector



Connector Hardware(11)



Connector Seals & Cavity Plugs(4)



Standard Circular Connectors(792)

## Customers Also Bought



## Documents

### Product Drawings

M12 FEMALE, A CODE, 8P, 17MM SMT

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_494166-E\\_1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_494166-E\\_1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_494166-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

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### Product Specifications

[Application Specification](#)

English

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### Agency Approvals

[UL](#)

English