

284740-E ✓ ACTIVE

ERNI | M12 Connector

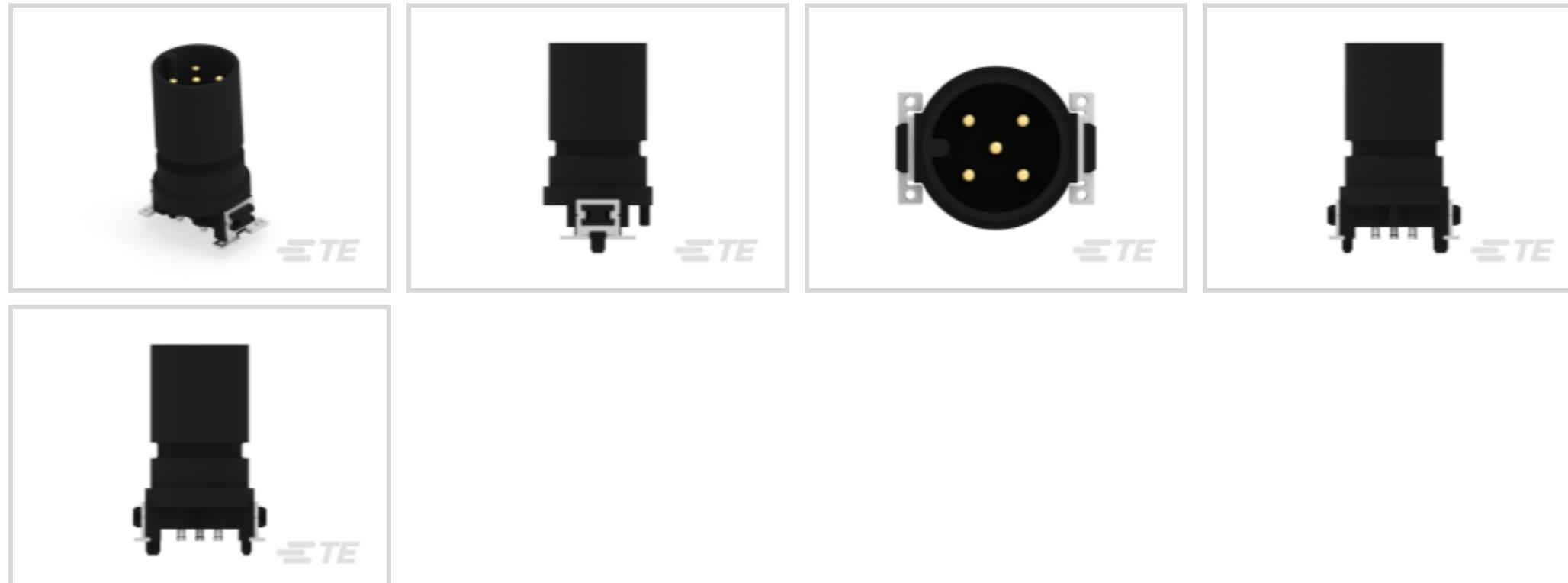
TE Internal #: 284740-E

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

[View on TE.com >](#)



Connectors > Circular Connectors > Standard Circular Connectors



Number of Positions: 5

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

Sealable: **No**

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

Contact Current Rating (Max): **4 A**

## Features

### Termination Features

Termination Method to PCB

Surface Mount

### Industry Standards

UL Flammability Rating

UL 94V-0

### Dimensions

Assembly Length

10.5 mm

### Body Features

Entry Style

Top

Environmental Protection

IP67, IP65

### Usage Conditions

IP Water Sealing Level

IP67

Operating Temperature Range

-25 – 85 °C [-13 – 185 °F]

### Mechanical Attachment

Mating Alignment

With

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

### Operation/Application

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

### 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	Plug

### Configuration Features

Number of Positions	5
Contacts Preloaded	Yes

### Contact Features

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

### Other

EU RoHS Compliance	Compliant with Exemptions
EU ELV Compliance	Compliant

### Product Compliance

For compliance documentation, visit the product page on [TE.com](http://TE.com)>

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
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: JUNE 2024

(241)

Candidate List Declared Against: JUNE 2024 (241)

SVHC &gt; Threshold:

Pb (2.7% 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

## Compatible Parts



TE Part # 374342-E  
MRDBGR M12 M \*\*\*\*\* J 2 374342 ABDE



TE Part # 834899-E  
SCH SCHE O-RING 14,0X1,0 NBR SCHWARZ M 1



TE Part # T4161320005-001  
RPC-M12-FS-5CON-PUR-0.5SH



TE Part # 394863-E  
M12 METAL SHELL, MALE, VERT, 13MM, D9.55



TE Part # T4110012051-000  
M12 F, 5P GOLD A\_CODE S SHIELDED PG9



TE Part # T4112012051-000  
M12 F, 5P GOLD A\_CODE RA SHIELDED PG9



TE Part # 464272-E  
M12 METAL SHELL, MALE, VERT, 9MM

## Also in the Series | M12 Connector



Connector Hardware(11)



Connector Seals &amp; Cavity Plugs(4)



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(793)

## Customers Also Bought

TE Part #3-647166-8  
8P MTA100 HDR ASSY,SM,FL,LFTE Part #5103310-3  
A/L LOW PRO HDR 16P RA BLACKTE Part #234040-E  
M12 FEMALE, D CODE, 4P, 17MM  
SMTTE Part #234041-E  
M12 FEMALE, D CODE, 4P, 17MM  
SMTTE Part #2271656-1  
VERTICAL SMT TYPE I MINI IO REC S CONNTE Part #254737-E  
M12 METAL SHELL, MALE, VERT,  
9MM, D8.35TE Part #354131-E  
M12 FEMALE, A CODE, 8P, 17MM  
SMTTE Part #394847-E  
M12 METAL SHELL, FEMALE, VERT,  
13MM, C6ATE Part #834899-E  
SCH SCHE O-RING 14,0X1,0 NBR  
SCHWARZ M 1TE Part #2-2176422-4  
TLRP 2512 3.0W R022 1% 25PPM 4K RL

## Documents

### Product Drawings

#### M12 MALE, A CODE, 5P, 10.5MM SMT

English

### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_284740-E\\_1.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_284740-E\\_1.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_284740-E\\_1.3d\\_igs.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