235190-E ✔ ACTIVE

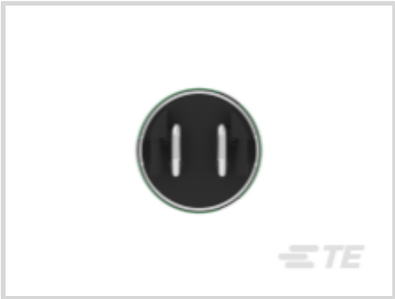
ERNI | M12 Connector

TE Internal #: 235190-E

Board-to-Board, Circular Connector Plug, 4 Position, Sealable, Printed Circuit Board, Power & Signal, Board Mount, Code D, M12 Connector

View on TE.com >

Connectors > Circular Connectors > Standard Circular Connectors



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

Connector Mounting Type: **Board Mount**

Number of Positions: **4**

Sealable: **Yes**

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

Features

Product Type Features

Connector Product Type	Connector Assembly
Connector System	Board-to-Board
Sealable	Yes
Connector & Contact Terminates To	Printed Circuit Board
Circular Connector Type	Circular Connector Plug

Configuration Features

Number of Positions	4
Contacts Preloaded	Yes

Electrical Characteristics

Operating Voltage	250 VDC

Contact Features

Contact Current Rating (Max)	4 A
Circular Connector Contact Type	Socket

Termination Features

Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

Dimensions

Assembly Length	9 mm, 13 mm

Usage Conditions

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

Operation/Application

Circuit Application	Power & Signal
Shielded	Yes

Industry Standards

UL Flammability Rating	UL 94V-0

Product Compliance

For compliance documentation, visit the product page on TE.com>

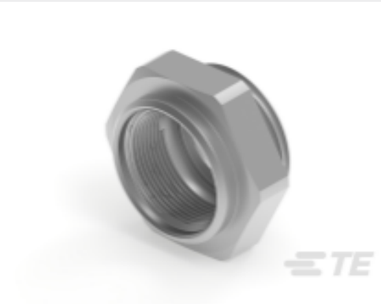
EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量超出标准 Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: FEB 2026 (253) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold: Pb (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
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

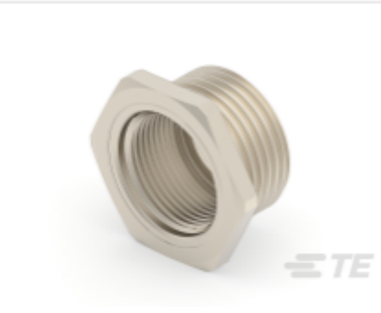


TE Part # 394828-E
M12 METAL SHELL, FEMALE, VERT, 9MM, C6A

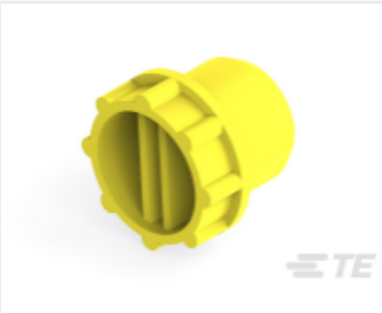
TE Part # 225275-E
M12 FEMALE, A CODE,RA, 5P THR REAR MOUNT

TE Part # 225284-E
M12 FEMALE, D CODE,RA, 4P THR REAR MOUNT

TE Part # T4111512041-000
M12 M, 4P GOLD D_CODE S SHIELDED PG9



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



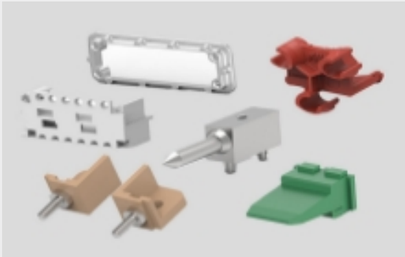
TE Part # 374343-E
CCA PC M12 * F * * * * * * * * J 3 22553

TE Part # 235164-E
M12 FEMALE, A CODE,RA, 5P THR REAR MOUNT

TE Part # TAD2413A201-001
M12D4-MS-TPE USH-0.5M

TE Part # T4113512041-000
M12 M, 4P GOLD D_CODE RA SHIELDED PG9

Also in the Series | M12 Connector



Connector Hardware(11)

Connector Seals & Cavity Plugs(4)

Standard Circular Connectors(633)

Customers Also Bought

TE Part #225456-E
M12 MALE, A CODE, RA, 5P THR REAR MOUNT

TE Part #800043-SF
FN2010-1-06

TE Part #484937-E
M12 FEMALE, D CODE, 4P, 17MM SMT

TE Part #4-1393240-8
RT334024

TE Part #2-1445100-4
MICRO MNL HDR ASSY S/ROW LF

TE Part #4-1462037-0
IM01JR=IM RELAY 140mW 3V

TE Part #1-2176186-7
CRGH1206 1% 2K7 0.5W

Documents

Product Drawings

M12 FEMALE, D CODE,RA, 4P THR REAR MOUNT

English

CAD Files

Customer View Model

ENG_CVM_CVM_235190-E_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_235190-E_1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_235190-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.

Product Specifications

Application Specification

English

Agency Approvals

UL

English