



M12 Connector

TE Internal #: T4113502031-000

Standard Circular Connectors, Wire-to-Wire, 3 Position, Sealable,  
Wire & Cable, Signal, PBT, D Polarization Code, Polyamide 66  
GF25, M12 Connector

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors > M12 Field Installable Unshielded



Connector System: **Wire-to-Wire**  
Number of Positions: **3**  
Sealable: **Yes**  
Connector & Contact Terminates To: **Wire & Cable**  
Contact Current Rating (Max): **4 A**

[All M12 Field Installable Unshielded \(102\)](#)

Features

Product Type Features

Prewired	No
Product Type	Connector Assembly
Accessory Color	Black
Assembly Type	Electrical Connector
Connector System	Wire-to-Wire
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Plug
Shell Type	Plastic

Configuration Features

Keying & Polarized Position Locations	D
Factory Installed Backshell	No
Keying	D



Number of Positions	3
Number of Power Positions	0
Number of Signal Positions	3
Contacts Preloaded	Yes

Electrical Characteristics

Operating Voltage	250 VAC
Voltage	250 Vrms

Body Features

Peripheral Seal Material	Silicone
Environmental Protection	IP67
Feedthrough Type	No
O-Ring Material	Silicone
Environmental Protection Type	Elastomer Sealed
Shell Base Material	PBT
Circular Connector Insulation Material Type	Polyamide 66 GF25

Contact Features

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

Mechanical Attachment

Mating Retention Type	Threaded Coupling
Mating Alignment	With
Polarization Code	D
Mating Alignment Type	Keyed

Housing Features

Circular Connector Shell Size	20
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Dimensions

Wire Size	.82 - .2 mm <sup>2</sup>
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Usage Conditions

IP Dust Sealing Level	6
IP Water Sealing Level	IP67
Operating Temperature Range	-40 - 85 °C[-40 - 185 °F]



Operation/Application

Durability Rating	100 Cycles
Circuit Application	Signal
Shielded	No

Industry Standards

UL Flammability Rating	UL 94HB
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Packaging Features

Packaging Quantity	1
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Other

Position Locations Omitted	0
Field Serviceable	Yes

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	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) SVHC > Threshold: Pb (3.7% in Component Part) <b>Article Safe Usage Statements:</b> 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 Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not applicable 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 # T4112502031-000  
M12,FEMALE,RA,D CODE,3P,PG9,  
GOLD

Also in the Series | M12 Connector

Connector Caps & Covers(5)

Connector Hardware(12)

Connector Seals & Cavity Plugs(4)

M8/M12 Cable Assemblies(230)

Standard Circular Connectors(803)

Customers Also Bought

TE Part # T4113502051-000  
M12 Field Installable Unshielded

TE Part # T4132512031-000  
M12 Panel Mount Solder Cups

TE Part # 1776293-1  
TSB23001DS=EUROPA TERM BLK,  
8MM

TE Part # 1879217-7  
CPF 0603 240K 0.1% 25PPM 1K RL



TE Part # 5-2176339-9  
CRGCQ 0603 680K 1%

TE Part # 2823563-1  
M8-DUST CAP-FEMALE CONN-IP67-W/O SLEEVE

TE Part # ANT-450-RHR-SMA  
Antenna Short R-Angle 450-470MHz SMA

TE Part # ANT-W63-CW-RCS-RPS  
Antenna 1/4 Wave R-Angle Wifi6/6E RPS

Documents

Product Drawings

M12,MALE,RA,D CODE,3P,PG9,GOLD

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_T4113502031-000\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_T4113502031-000\_B.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_CVM\_T4113502031-000\_B.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

M8 / M12 Connector System Catalog

English

Product Specifications

Application Specification

English

Agency Approvals

UL

English