



**M12 Connector**

TE Internal #: T4112502021-000

Standard Circular Connectors, Wire-to-Wire, 2 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: **2**

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
Accessory Color	Black
Assembly Type	Electrical Connector
Connector System	Wire-to-Wire
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Receptacle
Shell Type	Plastic

**Configuration Features**

Factory Installed Backshell	No
Keying	D
Number of Positions	2



Number of Power Positions	0
Number of Signal Positions	2
Contacts Preloaded	Yes

#### Electrical Characteristics

Operating Voltage	250 VAC
-------------------	---------

#### Body Features

Peripheral Seal Material	Silicone
Environmental Protection	IP67
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	Socket

#### Mechanical Attachment

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

#### Housing Features

Circular Connector Shell Size	20
-------------------------------	----

#### Dimensions

Wire Size	.82 – .2 mm <sup>2</sup>
-----------	--------------------------

#### 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
------------------------	---------

### Packaging Features

Packaging Quantity	1
--------------------	---

### Other

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	<p>Current ECHA Candidate List: JUNE 2022 (224)  Candidate List Declared Against: JAN 2020 (205)  SVHC &gt; Threshold:  Pb (4% in Alloy in Copper)</p> <p><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.</p>
--	--

Halogen Content	Not Yet Reviewed for halogen content
-----------------	--------------------------------------

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



## Also in the Series | M12 Connector



## Documents

### Product Drawings

M12,FEMALE,RA,D CODE,2P,PG9,GOLD

English

### CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_T4112502021-000\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_T4112502021-000\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_T4112502021-000\_A.3d\_stp.zip

English

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

