

1SET310859R0000 ✓ ACTIVE

ENTRELEC | M12 Connector

TE Internal #: 1SET310859R0000

Standard Circular Connectors, Wire-to-Panel, 8 Position, Sealable, Wire & Cable, Signal, Reverse Gender, Nickel, Copper Alloy, M12 Connector

[View on TE.com >](#)



Connectors > Circular Connectors > Standard Circular Connectors



Connector System: **Wire-to-Panel**

Number of Positions: **8**

Sealable: **Yes**

Connector & Contact Terminates To: **Wire & Cable**

Contact Current Rating (Max): **2 A**

Features

Product Type Features

Product Type	Connector Assembly
Accessory Color	Black
Assembly Type	Electrical Connector
Connector System	Wire-to-Panel
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Plug
Shell Type	Metal

Configuration Features

Keying & Polarized Position Locations	A
Factory Installed Backshell	No
Keying	A
Number of Positions	8
Number of Power Positions	0



Number of Signal Positions	8
----------------------------	---

Contacts Preloaded	Yes
--------------------	-----

Electrical Characteristics

Operating Voltage	30 VAC
-------------------	--------

Body Features

Peripheral Seal Material	Silicone
--------------------------	----------

Environmental Protection	IP67
--------------------------	------

O-Ring Material	Silicone
-----------------	----------

Environmental Protection Type	Elastomer Sealed
-------------------------------	------------------

Shell Plating Material	Nickel
------------------------	--------

Shell Base Material	Copper Alloy
---------------------	--------------

Circular Connector Insulation Material Type	Polyamide 66 GF25
---	-------------------

Contact Features

Contact Current Rating (Max)	2 A
------------------------------	-----

Reverse Gender	Yes
----------------	-----

Circular Connector Contact Type	Pin
---------------------------------	-----

Mechanical Attachment

Polarization Code	A
-------------------	---

Mating Alignment Type	Keyed
-----------------------	-------

Housing Features

Circular Connector Shell Size	18
-------------------------------	----

Dimensions

Wire Size	26 – 24 AWG
-----------	-------------

Usage Conditions

IP Water Sealing Level	IP67
------------------------	------

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
-----------------------------	---------------------------

Operation/Application

Circuit Application	Signal
---------------------	--------

Shielded	No
----------	----

Industry Standards

UL Flammability Rating	UL 94HB
------------------------	---------



Packaging Features

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

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: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) SVHC > Threshold: Pb (4% 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 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



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(519)

Documents

Product Drawings

[M12-MB-8CON-PG9-LAU](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1SET310859R0000_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1SET310859R0000_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1SET310859R0000_A.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[Infographic - entrelec ews-linecard](#)

English

[Catalog - ENTRELEC-M8-M12-RJ45](#)

English

Product Specifications

[Application Specification](#)

English