

1SET311057R0000 ✓ ACTIVE

ENTRELEC | M12 Connector

TE Internal #: 1SET311057R0000

Standard Circular Connectors, Wire-to-Panel, 5 Position, Sealable, Wire & Cable, Signal, Reverse Gender, Nickel, Copper Alloy, M12 Connector

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Connectors > Circular Connectors > Standard Circular Connectors



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

Number of Positions: **5**

Sealable: **Yes**

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

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

## Features

### Product Type Features

|                                   |                      |
|-----------------------------------|----------------------|
| Prewired                          | Yes                  |
| 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                   | 5  |



|                            |     |
|----------------------------|-----|
| Number of Power Positions  | 0   |
| Number of Signal Positions | 5   |
| Contacts Preloaded         | Yes |

#### Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 60 VAC |
|-------------------|--------|

#### Body Features

|   |              |
|---|--------------|
| Peripheral Seal Material                    | Silicone     |
| O-Ring Material                             | Silicone     |
| Environmental Protection Type               | Sealed       |
| Shell Plating Material                      | Nickel       |
| Shell Base Material                         | Copper Alloy |
| Circular Connector Insulation Material Type | Polyamide    |

#### Contact Features

|                                 |     |
|---------------------------------|-----|
| Contact Current Rating (Max)    | 4 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 | .34 – .5 mm <sup>2</sup> |
|-----------|--------------------------|

#### 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 |
|--------------------|---|

### Other

|                   |    |
|-------------------|----|
| Field Serviceable | No |
|-------------------|----|

### 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)<br>Candidate List Declared Against: JUNE 2022 (224)<br>SVHC > Threshold:<br>Pb (1.9% in Component Part)<br><b>Article Safe Usage Statements:</b><br>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 reviewed for solder process capability   |

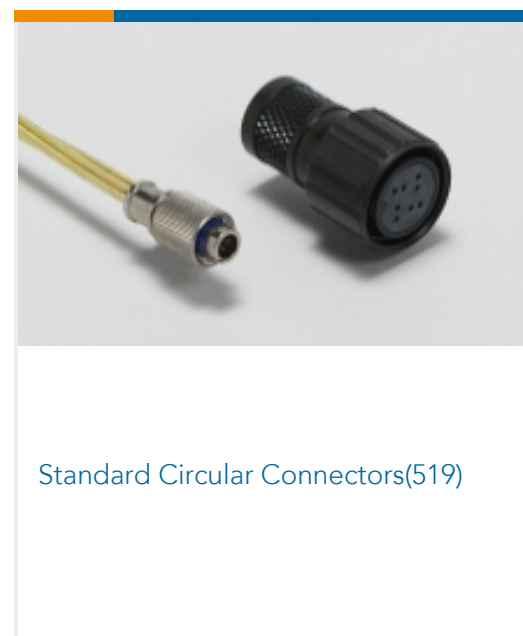
#### Product Compliance Disclaimer

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



## Documents

### Product Drawings

[M12-MF-5CON-PG9-0.2LAU](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1SET311057R0000\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1SET311057R0000\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1SET311057R0000\\_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

1SET311057R0000

Standard Circular Connectors, Wire-to-Panel, 5 Position, Sealable, Wire & Cable, Signal, Reverse Gender, Nickel, Copper Alloy, M12 Connector



## Application Specification

English