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#### ENTRELEC | M12 Connector

TE Internal #: 1SET315270R0000

M12 Cable Assembly, 2 Position, .5 m, Industrial Fieldbus,

PROFIBUS, Code B, M12 Plug, M12 Socket, Shielded, Double

Ended, PA66+25GF

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Cable Assemblies > Copper Cable Assemblies > M8/M12 Cable Assemblies











M8/M12 Application Type: Industrial Fieldbus

Industrial Protocols: PROFIBUS

Number of Positions: 2

Keying Code: **B** 

Connector Type (End A): M12 Plug

#### **Features**

### **Product Type Features**

LED	Without
Product Type	Cable Assembly
Cable Type	PUR
Assembly Type	Overmolded
Connector Type (End A)	M12 Plug
Connector Type (End B)	M12 Socket
Cable Assembly Type	M12
Configuration Features	
Number of Positions	2
Keying Code	В
Electrical Characteristics	
Operating Voltage	250 VDC
Body Features	

IP67

**Environmental Protection** 



Conductor Material Copper Alloy  Connector Color Black Cable Jacket Color Violet  Contact Features  Contact Features  Contact Current Rating 4 A  Mechanical Attachment  Connector Orientation (Find A) Right Angle Cornector Orientation (End B) Straight  Housing Features  Housing Material PA66+25GF  Dimensions  Overall Outside Cable Diameter 7.8 mm  Wire Size 24 AWG  Operation/Application  MB/M12 Application Type Industrial Fieldbus Shielded Yes  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Ouantity 5  Other  Cable Assembly Length 5 m  Cable Assembly Length 5 m  Cable Assembly Configuration Double Ended		
Cable Jacket Color  Contact Features  Contact Current Rating 4 A  Mechanical Attachment  Connector Orientation (End A) Right Angle Connector Orientation (End B) Straight  Housing Features  Housing Material PA66+25GF  Dimensions  Overall Outside Cable Diameter 7.8 mm  Wire Size 24 AWG  Operation/Application  M8/M12 Application Type Industrial Fieldbus Shielded Yes  Industry Standards  Industry Standards  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Ouantity 5  Other  Cable Assembly Length 5.5 m	Conductor Material	Copper Alloy
Contact Current Rating 4 A  Mechanical Attachment  Connector Orientation (End A) Right Angle Connector Orientation (End B) Straight  Housing Features  Housing Material PA66+25GF  Dimensions  Overall Outside Cable Diameter 7.8 mm Wire Size 24 AWG  Operation/Application  MB/M12 Application Type Industrial Fieldbus Shielded Yes Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity 5  Other  Cable Assembly Length 5.5 m	Connector Color	Black
Contact Current Rating 4 A  Mechanical Attachment  Connector Orientation (End A) Right Angle Connector Orientation (End B) Straight  Housing Features  Housing Material PA66-25GF  Dimensions  Overall Outside Cable Diameter 7.8 mm  Wire Size 24 AWG  Operation/Application  M8/M12 Application Type Industrial Fieldbus Shielded Yes  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity 5  Other  Cable Assembly Length 5.5 m	Cable Jacket Color	Violet
Mechanical Attachment  Connector Orientation (End A) Right Angle  Connector Orientation (End B) Straight  Housing Features  Housing Material PA66125GF  Dimensions  Overall Outside Cable Diameter 7.8 mm  Wire Size 24 AWG  Operation/Application  M8/M12 Application Type Industrial Fieldbus Shielded Yes  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity 5  Other  Cable Assembly Length 5.5 m	Contact Features	
Connector Orientation (End A) Connector Orientation (End B) Straight  Housing Features  Housing Material PA66+25GF  Dimensions  Overall Outside Cable Diameter Wire Size 21 AWG  Operation/Application  M8/M12 Application Type Industrial Fieldbus Shielded Yes  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity  Cable Assembly Length  Straight Angle Straight Angle PA66+25GF  PA66+25GF  PA66+25GF  PA66+25GF  Industrial Fieldbus  F.8 mm  Vire Size PA66+25GF  Industrial Fieldbus PA66+25GF  Industrial Fieldbus PAGE PROFIBUS  PROFIBUS  Other  Cable Assembly Length  .5 m	Contact Current Rating	4 A
Connector Orientation (End B)  Housing Features  Housing Material Protocols Industry Standards Industrial Protocols Packaging Features  Packaging Quantity  Cable Assembly Length  Straight  PA66+25GF  PA66+25GF	Mechanical Attachment	
Housing Features  Housing Material PA66+25GF  Dimensions  Overall Outside Cable Diameter 7.8 mm  Wire Size 24 AWG  Operation/Application  M8/M12 Application Type Industrial Fieldbus Shielded Yes  Industry Standards  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity 5  Other  Cable Assembly Length 5.5 m	Connector Orientation (End A)	Right Angle
Housing Material  Dimensions  Overall Outside Cable Diameter  Nire Size  24 AWG  Operation/Application  M8/M12 Application Type  Industrial Fieldbus  Shielded  Yes  Industrial Protocols  Packaging Features  Packaging Method  Packaging Quantity  Other  Cable Assembly Length  Pakes	Connector Orientation (End B)	Straight
Dimensions  Overall Outside Cable Diameter 7.8 mm  Wire Size 24 AWG  Operation/Application  M8/M12 Application Type Industrial Fieldbus Shielded Yes  Industry Standards  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity 5  Other  Cable Assembly Length .5 m	Housing Features	
Overall Outside Cable Diameter 7.8 mm  Wire Size 24 AWG  Operation/Application  M8/M12 Application Type Industrial Fieldbus Shielded Yes  Industry Standards  Industry Standards  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity 5  Other  Cable Assembly Length 5.5 m	Housing Material	PA66+25GF
Wire Size 24 AWG  Operation/Application  M8/M12 Application Type Industrial Fieldbus Shielded Yes  Industry Standards  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity 55  Other  Cable Assembly Length .5 m	Dimensions	
Operation/ApplicationM8/M12 Application TypeIndustrial FieldbusShieldedYesIndustry StandardsPROFIBUSIndustrial ProtocolsPROFIBUSPackaging FeaturesBagPackaging Quantity5OtherCable Assembly Length.5 m	Overall Outside Cable Diameter	7.8 mm
M8/M12 Application Type Shielded Yes Industry Standards Industrial Protocols Packaging Features Packaging Method Packaging Quantity  Other  Cable Assembly Length Industrial Fieldbus Yes  Yes  Yes  Yes  Yes  Yes  FROFIBUS  PROFIBUS  5  5  Cother  .5 m	Wire Size	24 AWG
Shielded Yes  Industry Standards  Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag  Packaging Quantity 5  Other  Cable Assembly Length .5 m	Operation/Application	
Industrial Protocols PROFIBUS  Packaging Features  Packaging Method Bag Packaging Quantity 5  Other  Cable Assembly Length .5 m	M8/M12 Application Type	Industrial Fieldbus
Industrial Protocols  Packaging Features  Packaging Method  Packaging Quantity  5  Other  Cable Assembly Length  PROFIBUS  PROFIBUS  Bag  5  5  Cable Assembly Length	Shielded	Yes
Packaging Features  Packaging Method  Packaging Quantity  5  Other  Cable Assembly Length  .5 m	Industry Standards	
Packaging Method  Packaging Quantity  5  Other  Cable Assembly Length  .5 m	Industrial Protocols	PROFIBUS
Packaging Quantity 5  Other  Cable Assembly Length 5  .5 m	Packaging Features	
Other  Cable Assembly Length .5 m	Packaging Method	Bag
Cable Assembly Length .5 m	Packaging Quantity	5
	Other	
Cable Assembly Configuration Double Ended	Cable Assembly Length	.5 m
	Cable Assembly Configuration	Double Ended

### **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)



Nla+	V/~+	Reviewed
IMOT	$Y \cap T$	Kevieweo

Free	Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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#### Solder Process Capability

Not reviewed for solder process capability

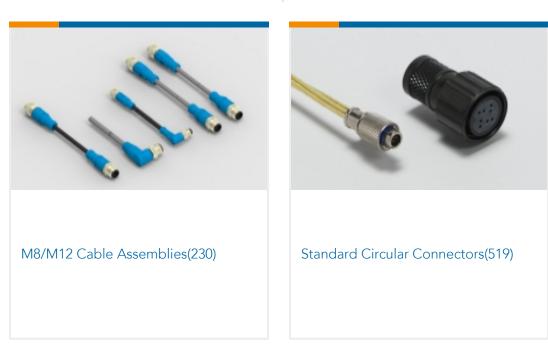
#### Product Compliance Disclaimer

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**



### Also in the Series | M12 Connector



#### **Documents**

Product Drawings
M12B2-MR-FS-PUR-0.5M



English

**CAD Files** 

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_1SET315270R0000\_A.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_1SET315270R0000\_A.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_1SET315270R0000\_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