1SET310621R0000 - ACTIVE

ENTRELEC | M12 Connector

TE Internal #: 1SET310621R0000 Standard Circular Connectors, Wire-to-Wire, 4 Position, Sealable, Wire & Cable, Signal, Nickel, Copper Alloy, D Polarization Code, M12 Connector

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Connectors > Circular Connectors > Standard Circular Connectors



Connector System: Wire-to-Wire

Number of Positions: 4

Sealable: Yes

Connector & Contact Terminates To: Wire & Cable

Contact Current Rating (Max): 4A

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	Metal
Configuration Features	
Keying & Polarized Position Locations	D
Factory Installed Backshell	With
Keying	D
Number of Positions	4

Standard Circular Connectors, Wire-to-Wire, 4 Position, Sealable, Wire & Cable, Signal, Nickel, Copper Alloy, D Polarization Code, M12 Connector



Number of Signal Pastions 4 Contacts Preloaded Yes Electrical Characteristics 230 VAC Voltage 230 VAC Voltage 230 VAC Body Features 230 VIns Peripheral Seal Material Sticone Finviconmental Protection IP67 O-Ring Material Sticone Shell Plating Material Niccel Shell Plating Material Copper Alloy Crouter Connector Insultation Material Type Polyamide 66 GP25 Contact Features Contact Features Contact Connector Insultation Material Type No Crouter Connector Insultation Material Type No Contact Connector Contact Type No Crouter Connector Contact Type No Crouter Connector Contact Type No Mating Alignment With Polarization Code D Mating Alignment With Polarization Connector Shell Size 20 Contact Connector Shell Size 20 Dimensions 82 – 2 mm ² Wire Si		
Contacts Prelocaded Yes Electrical Characteristics 250 VAC Operating Voltage 250 VAC Voltage 250 VAC Body Features 250 VARs Peripheral Seal Material Sticome Environmental Protection 1967 Orking Material Sticome Shell Plating Material Nickel Shell Plating Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GF25 Contact Features Voltage Contact Features No Contact Current Kating (Max) 4 A Reverse Gender No Circular Connector Insulation Material Type Pin Mating Retention Type Pin Mating Retention Type Pin Mating Alignment With Polarization Code D Mating Alignment Type Kayed Viro Size 20 Dimensions Viro Size Viro Size 82 - 2 mm² IP Dust Sealing Level 6 IP Varie Sealing Level 6 IP Varie Sealing Level 6 IP Varie Sealing Level 6	Number of Power Positions	0
Electrical Characteristics Operating Vallage 250 VAC Vallage 250 Vms Body Features 250 Vms Paripharal Seal Material Silicone Environmental Protection IP67 O Ring Material Silicone Environmental Protection Type Elastomer Sealed Shell Plating Material Nickel Shell Plating Material Copper Alloy Cincular Connector Insulation Material Type Polyamide 66 GF25 Contact Features Contact Current Rating (Max) Reverse Gender No Circular Connector Contact Type Pin Mating Alignment With Polarization Code D Mating Alignment Type Acyed Versize 20 Dimensions Vite Size Vite Size .82 - 2 mm² Usage Conditions Pio7 IP Dust Sealing Level 6 IP Water Sealing Level		4
Operating Voltage250 VACVoltage250 VirusBody Features250 VirusPeripheral Seal MaterialSiliconeEnvironmental Protection1P67O-Ring MaterialSiliconeEnvironmental Protection TypeElastomer SealedShell Flating MaterialNickelShell Shell MaterialCopper AlloyCircular Connector Insulation Material TypePelyamide 66 GF25Contact FeaturesContact Current Rating (Max)A AReverse GonderNoCircular Connector Contact TypePinMating Retention TypePinMating AlignmentWithPolarization CodeDMating Alignment Type20Virus Size20Dimensions20Virus Size82 – 2 mm²Virus Size82 – 2 mm²IP Dust Sealing Level6IP Dust Sealing Level1P67Operating Temperature Range40 – 85 °C[40 – 185 °F]	Contacts Preloaded	Yes
Voltage250 VmsBody FeaturesPeripheral Seal MaterialSiliconeEnvironmental ProtectionP67O-Ring MaterialSiliconeEnvironmental Protection TypeEastorner SealedShell Plating MaterialNickelShell Plating MaterialCopper AlloyCircular Connector Insulation Material TypePolyamide 66 GF25Contact FeaturesVoltageContact FeaturesNoContact Current Rating (Max)4 AReverse GenderNoCircular Connector Contact TypePinMating Retention TypePinMating Retention TypeInreaded CouplingMating Retention TypeSeyedHousing Features20Circular Connector Shell Size20DimensionsVins SizeVing Size82 - 2 mm²Ving Size82 - 2 mm²IP Dust Sealing Level6IP Water Sealing Level10IP Water Sealing Level6IP	Electrical Characteristics	
Paripheral Seal Material Silicone Peripheral Seal Material Silicone Invironmental Protection IP67 Q Ring Material Silicone Invironmental Protection Type Elastomer Sealed Shell Plating Material Nickel Shell Plating Material Copper Alloy Ornact Connector Insulation Material Type Polyamide 66 GF25 Contact Features Contact Cornent Rating (Max) Contact Cornent Rating (Max) 4 A Reverse Gender No Corcular Connector Contact Type Pin Mating Retention Type Threaded Coupling Mating Retention Type Vith Pelarization Code D Mating Alignment Keyed Housing Features Zoncular Connector Shell Size Circular Connector Shell Size 20 Dimensions Vith Size Wire Size Size - 2 mm ² Viree Size Size - 2 mm ² Ure Size Size - 2 mm ² Ure Size 40 Brownenture Range 40	Operating Voltage	250 VAC
Peripheral Seal Material Silicone Environmental Protection IP67 O-Ring Material Silicone Environmental Protection Type Elastomer Scaled Shell Plating Material Nickel Shell Plating Material Copper Alloy Circular Connector Insulation Material Type Polyamide 66 GF25 Contact Features Contact Current Rating (Max) Contact Current Rating (Max) 4 A Reverse Gender No Circular Connector Contact Type Pin Mating Retention Type Threaded Coupling Mating Alignment With Polarization Code D Mating Alignment Type Reyed Housing Features Circular Connector Shell Size Qircular Connector Shell Size 322 mm ² Vire Size .822 mm ² Vire Size .822 mm ² Vire Size .6 IP Dust Sealing Level 6 IP Water Sealing Level .4085 *C[-40 - 185 *I]	Voltage	250 Vrms
Environmental ProtectionIP67O-Ring MaterialSiliconeEnvironmental Protection TypeElastomer SealedShell Plating MaterialNickelShell Plating MaterialCopper AlloyCircular Connector Insulation Material TypePolyamide 66 GF25Contact FeaturesContact Current Rating (Max)Contact Current Rating (Max)4 AReverse GenderNoCircular Connector Contact TypePinMechanical AttachmentWithPolarization CodeDMating AlignmentWithPolarization CodeDMating Features20Circular Connector Shell Size20Dimensions	Body Features	
O-Ring MaterialSiliconeEnvironmental Protection TypeFlastomer SealedShell Plating MaterialNickelShell Base MaterialCopper AlloyCircular Connector Insulation Material TypePolyamide 66 GF25Contact FeaturesContact Features4 AReverse GenderNoCircular Connector Contact TypePinMating Retention TypePinMating Retention TypeThreaded CouplingMating AlignmentWithPolarization CodeDMating Alignment TypeZoUrusing FeaturesZoCircular Connector Shell SizeZoDimensions.82 – .2 mm²Wire Size.82 – .2 mm²IP Dust Sealing Level6IP Water Sealing Level6IP Wa	Peripheral Seal 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) 4 A Reverse Gender No Circular Connector Contact Type Pin Mating Retention Type Threaded Coupling Mating Alignment With Polarization Code D Housing Features 20 Circular Connector Shell Size 20 Polarization Code 20 Dimensions 82 – 2 mm² Wire Size 82 – 2 mm² IP Dust Sealing Level 6 IP Water Sealing Level 1P67 IP Water Sealing Level 40 – 85 °C[40 – 185 °F]	Environmental Protection	IP67
Shell Plating MaterialNickelShell Plating MaterialCopper AlloyCircular Connector Insulation Material TypePolyamide 66 GF25Contact FeaturesContact Current Rating (Max)4 AReverse GenderNoCircular Connector Contact TypePinMechanical AttachmentVithMating AlignmentWithPolarization CodeDMating Alignment TypeKeyedHousing Features20Circular Connector Shell Size20DimensionsVire SizeIP Dust Sealing Level6IP Water Sealing LevelP67IP Water Sealing LevelP67Orenting Temperature Range40 – 85 °C[-40 – 185 °F]	O-Ring Material	Silicone
Shell Base Material Copper Alloy 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 With Mating Retention Type Threaded Coupling Mating Alignment With Polarization Code D Mating Alignment Type Keyed Housing Features 20 Circular Connector Shell Size 20 Dimensions Wire Size IP Dust Sealing Level 6 IP Water Scaling Level P67 IP Water Scaling Level P67 IP Water Scaling Temperature Range P67 *C[-40 – 185 *F]	Environmental Protection Type	Elastomer Sealed
Circular Connector Insulation Material Type Polyamide 66 GF25 Contact Features 4 A Contact Current Rating (Max) 4 A Reverse Gender No Circular Connector Contact Type Pin Mechanical Attachment Pin Mating Retention Type Threaded Coupling Mating Alignment With Polarization Code D Mating Alignment Type Keyed Housing Features 20 Circular Connector Shell Size 20 Dimensions .82 – 2 mm ² Vire Size .82 – 2 mm ² IP Dust Sealing Level 6 IP Water Sealing Level P67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F]	Shell Plating Material	Nickel
Contact Features Contact Current Rating (Max) 4 A Reverse Gender No Circular Connector Contact Type Pin Mechanical Attachment Mating Retention Type Mating Retention Type Threaded Coupling Mating Alignment With Polarization Code D Mating Alignment Type Keyed Housing Features 20 Circular Connector Shell Size 20 Dimensions 82 – 2 mm ² Vire Size .82 – 2 mm ² IP Dust Sealing Level 6 IP Water Sealing Level 1P67 Operating Temperature Range .40 – 85 °C[40 – 185 °F]	Shell Base Material	Copper Alloy
Contact Current Rating (Max)4 AReverse GenderNoCircular Connector Contact TypePinMechanical AttachmentMating Retention TypeMating Retention TypeThreaded CouplingMating AlignmentWithPolarization CodeDMating Alignment TypeKeyedHousing Features20Circular Connector Shell Size20DimensionsSeq ConditionsI'P Dust Sealing Level6IP Water Sealing LevelIP67Operating Temperature Range-40 – 85 °C[-40 – 185 °F]	Circular Connector Insulation Material Type	Polyamide 66 GF25
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Mating Retention TypeThreaded CouplingMating AlignmentWithPolarization CodeDMating Alignment TypeKeyedHousing Features20Circular Connector Shell Size20DimensionsS2 - 2 mm²Vire Size.822 mm²IP Dust Sealing Level6IP Water Sealing Level1P67Operating Temperature Range-40 - 85 °C[-40 - 185 °F]	Circular Connector Contact Type	Pin
Mating AlignmentWithPolarization CodeDMating Alignment TypeKeyedMating Alignment TypeCeyedHousing Features20Circular Connector Shell Size20DimensionsVire SizeVire Size82 – 2 mm²Usage Conditions-IP Dust Sealing Level6IP Water Sealing LevelIP67Operating Temperature Range-40 – 85 °C[-40 – 185 °F]	Mechanical Attachment	
Polarization CodeDMating Alignment TypeKeyedHousing Features20Circular Connector Shell Size20DimensionsS22 mm²Vire Size.822 mm²IP Dust Sealing Level6IP Water Sealing LevelIP67Operating Temperature Range-40 - 85 °C[-40 - 185 °F]	Mating Retention Type	Threaded Coupling
Mating Alignment Type Keyed Housing Features 20 Circular Connector Shell Size 20 Dimensions 82 – 2 mm² Vire Size .82 – 2 mm² IP Dust Sealing Level 6 IP Water Sealing Level 1P67 Operating Temperature Range -40 – 85 °C[-40 – 185 °F]	Mating Alignment	With
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Circular Connector Shell Size20Dimensions	Mating Alignment Type	Keyed
Dimensions Wire Size .822 mm² Usage Conditions IP Dust Sealing Level IP Water Sealing Level IP Water Sealing Level Operating Temperature Range	Housing Features	
Wire Size.82 – .2 mm²Usage ConditionsIP Dust Sealing Level6IP Water Sealing LevelIP67Operating Temperature Range-40 – 85 °C[-40 – 185 °F]	Circular Connector Shell Size	20
Usage ConditionsIP Dust Sealing Level6IP Water Sealing LevelIP67Operating Temperature Range-40 - 85 °C[-40 - 185 °F]	Dimensions	
IP Dust Sealing Level6IP Water Sealing LevelIP67Operating Temperature Range-40 - 85 °C[-40 - 185 °F]	Wire Size	.82 – .2 mm²
IP Water Sealing LevelIP67Operating Temperature Range-40 - 85 °C[-40 - 185 °F]	Usage Conditions	
Operating Temperature Range -40 – 85 °C[-40 – 185 °F]	IP Dust Sealing Level	6
	IP Water Sealing Level	IP67
On emotion (A publication	Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
Operation/Application	Operation/Application	

Standard Circular Connectors, Wire-to-Wire, 4 Position, Sealable, Wire & Cable, Signal, Nickel, Copper Alloy, D Polarization Code, M12 Connector



Durability Rating	100 Cycles
Circuit Application	Signal
Shielded	Yes
Industry Standards	
UL Flammability Rating	UL 94HB
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: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) SVHC > Threshold:

Halogen Content

Solder Process Capability

Pb (3.7% 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.

BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.

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

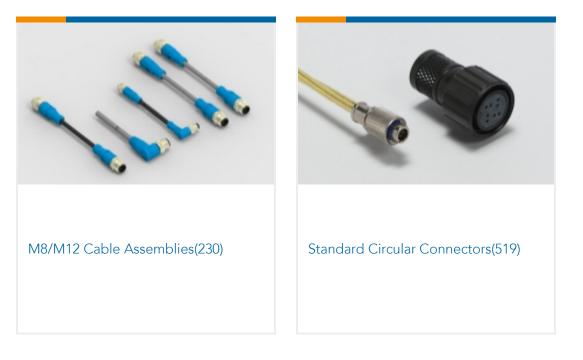
Compatible Parts

Standard Circular Connectors, Wire-to-Wire, 4 Position, Sealable, Wire & Cable, Signal, Nickel, Copper Alloy, D Polarization Code, M12 Connector





Also in the Series | M12 Connector



Documents

Product Drawings M12D-MR-4CON-PG9-SHU

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1SET310621R0000_A.2d_dxf.zip

English

Customer View Model ENG_CVM_CVM_1SET310621R0000_A.3d_igs.zip

English

Customer View Model ENG_CVM_CVM_1SET310621R0000_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

C For support call+1 800 522 6752

Standard Circular Connectors, Wire-to-Wire, 4 Position, Sealable, Wire & Cable, Signal, Nickel, Copper Alloy, D Polarization Code, M12 Connector



Application Specification

English