

#### M12 Connector

TE Internal #: T4131012081-000

Standard Circular Connectors, Wire-to-Panel, 8 Position, Sealable,

Wire & Cable, Signal, Reverse Gender, Nickel, Brass, M12

Connector

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Connectors > Circular Connectors > Standard Circular Connectors > M12 Panel Mount Solder Cups











Connector System: Wire-to-Panel

Number of Positions: 8

Sealable: Yes

Connector & Contact Terminates To: Wire & Cable

Contact Current Rating (Max): 2A

All M12 Panel Mount Solder Cups (56)

# **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	Receptacle
Shell Type	Metal

# **Configuration Features**

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



Deprating Voltage  Body Features  Peripheral Seal Material Environmental Protection UP67  O-Ring Material Environmental Protection Type Elastomer Sealed Shell Plating Material Shell Base Material Shell Base Material Shell Base Material Shell Base Material Brass Circular Connector Insulation Material Type Polyamide 66 GF25  Contact Features  Contact Current Rating (Max) 2 A Reverse Gender Yes Circular Connector Contact Type Socket  Mechanical Attachment  Polarization Code A Mating Alignment Type Keyed  Housing Features  Circular Connector Shell Size Dimensions  Wire Size Usage Conditions  IP Water Sealing Level Operating Temperature Range  Circuit Application Circuit Application Circuit Application Circuit Application Circuit Application Signal Shielded No		
Contacts Preloaded Yes  Electrical Characteristics  Operating Voltage 30 VAC  Body Features  Peripheral Seal Material Silicome Environmental Protection IP67  O-Ring Material Silicome Environmental Protection IP67  O-Ring Material Silicome Environmental Protection Type Elastomer Sealed Shell Plating Material Nickel Shell Base Material Brase Circular Connector Insulation Material Type Polyamide 66 GF25  Contact Features  Contact Features  Contact Current Rating (Max) 2 A Reverse Gender Yes Circular Connector Contact Type Socket  Machanical Attachment  Polarization Code A Mating Alignment Type Keyed  Housing Features  Circular Connector Shell Size 18  Dimansions  Wire Size 26 – 24 AWG  Usage Conditions  IP Water Sealing Level IP67  Operation/Application  Circuit Application  Circuit Application  Circuit Application  Circuit Application  Signal  Shielded No	Number of Power Positions	0
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 Plating Material Brass Circular Connector Insulation Material Type Polyamide 66 GF25  Contact Features  Contact Features  Contact Current Rating (Max) 2 A Reverse Gender Yes Circular Connector Contact Type Socket  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]  Operating Application Circuit Application Signal Shelded	Number of Signal Positions	8
Deprating Voltage  Body Features  Peripheral Seal Material Environmental Protection UP67  O-Ring Material Environmental Protection Type Elastomer Sealed Shell Plating Material Shell Base Material Shell Base Material Shell Base Material Shell Base Material Brass Circular Connector Insulation Material Type Polyamide 66 GF25  Contact Features  Contact Current Rating (Max) 2 A Reverse Gender Yes Circular Connector Contact Type Socket  Mechanical Attachment  Polarization Code A Mating Alignment Type Keyed  Housing Features  Circular Connector Shell Size Dimensions  Wire Size Usage Conditions  IP Water Sealing Level Operating Temperature Range  Circuit Application Circuit Application Circuit Application Circuit Application Circuit Application Signal Shielded No	Contacts Preloaded	Yes
Body Features Peripheral Seal Material Silicone Environmental Protection IP67 O-Ring Material Silicone Environmental Protection Type Elastomer Sealed Environmental Protection Type Elastomer Sealed Shell Plating Material Nickel Shell Blase Material Brass Circular Connector Insulation Material Type Polyamide 66 GL2S  Contact Features Contact Current Rating (Max) 2 A Reverse Gender Yes Circular Connector Contact Type Socket  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 Circuit Application Signal Shielded Side Side Side Side Side Side Side S	Electrical Characteristics	
Peripheral Seal Material Environmental Protection Peripheral Seal Material Silicone Environmental Protection Type Elastomer Sealed Shell Plating Material Shell Plating Material Shell Base Material Shell Base Material Brass Circular Connector Insulation Material Type Polyamide 66 GF25  Contact Features Contact Current Rating (Max) 2 A Reverse Gender Yes Circular Connector Contact Type Socket  Mechanical Attachment  Polarization Code Ad Mating Alignment Type Keyed  Housing Features Circular Connector Shell Size Bise Dimensions Wire Size Usage Conditions IP Water Sealing Level Operating Temperature Range Operation/Application Circuit Application Signal Shielded No	Operating Voltage	30 VAC
Environmental Protection   IP67   O Ring Material   Silicone   Environmental Protection Type   Elastomer Sealed   Shell Plating Material   Nickel   Shell Base Material   Brass   Circular Connector Insulation Material Type   Polyamide 66 GF25   Contact Features   Contact Current Rating (Max)   2 A   Reverse Gender   Yes   Circular Connector Contact Type   Socket   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	Body Features	
Co-Ring Material Silicone Environmental Protection Type Elastomer Sealed Shell Plating Material Nickel Shell Base Material Brass Circular Connector Insulation Material Type Polyamide 66 GF25  Contact Features Contact Features Contact Current Rating (Max) 2 A Reverse Gender Yes Circular Connector Contact Type Socket  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 Performance Perf	Peripheral Seal Material	Silicone
Environmental Protection Type  Shell Plating Material  Shell Base Material  Shell Base Material  Circular Connector Insulation Material Type  Polyamide 66 GF25  Contact Features  Contact Current Rating (Max)  Reverse Gender  Circular Connector Contact Type  Socket  Mechanical Attachment  Polarization Code  Mating Alignment Type  Keyed  Housing Features  Circular Connector Shell Size  Dimensions  Wire Size  26 – 24 AWG  Usage Conditions  IP Water Sealing Level  Operating Temperature Range  Operation/Application  Circuit Application  Shielded  Shielded  No	Environmental Protection	IP67
Shell Plating Material Shell Base Material Shell Base Material Circular Connector Insulation Material Type Polyamide 66 GF25  Contact Features  Contact Current Rating (Max) 2 A Reverse Gender Yes Circular Connector Contact Type Socket  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 Operating Temperature Range Operation/Application  Circuit Application Shielded No	O-Ring Material	Silicone
Shell Base Material Brass Circular Connector Insulation Material Type Polyamide 66 GF25  Contact Features  Contact Current Rating (Max) 2 A  Reverse Gender Yes Circular Connector Contact Type Socket  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	Environmental Protection Type	Elastomer Sealed
Circular Connector Insulation Material Type  Contact Features  Contact Current Rating (Max)  Reverse Gender  Circular Connector Contact Type  Socket  Mechanical Attachment  Polarization Code  Mating Alignment Type  Housing Features  Circular Connector Shell Size  Dimensions  Wire Size  Usage Conditions  IP Water Scaling Level  Operating Temperature Range  Operation/Application  Circuit Application  Shielded  Polyamide 66 GF25  A  Polyamide 66 GF25  A  Polyamide 66 GF25   A  A  Polyamide 66 GF25   A  A  A  Polyamide 66 GF25   A  A  A  A  A  A  A  A  A  A  A  A	Shell Plating Material	Nickel
Contact Current Rating (Max)  Reverse Gender  Circular Connector Contact Type  Socket  Mechanical Attachment  Polarization Code  Mating Alignment Type  Keyed  Housing Features  Circular Connector Shell Size  18  Dimensions  Wire Size  26 – 24 AWG  Usage Conditions  IP Water Sealing Level Operating Temperature Range  Operation/Application  Circuit Application  Signal Shielded  No	Shell Base Material	Brass
Contact Current Rating (Max)  Reverse Gender  Yes  Circular Connector Contact Type  Socket  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 Operating Temperature Range Operation/Application  Circuit Application Signal Shielded  Socket	Circular Connector Insulation Material Type	Polyamide 66 GF25
Reverse Gender Yes  Circular Connector Contact Type Socket  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	Contact Features	
Circular Connector Contact Type  Mechanical Attachment  Polarization Code  Mating Alignment Type  Housing Features  Circular Connector Shell Size  Dimensions  Wire Size  Usage Conditions  IP Water Sealing Level  Operating Temperature Range  Operation/Application  Circuit Application  Shielded  Socket  Socket  Socket  Socket  A  A  A  Keyed  Keyed  Housing Features  18  26 – 24 AWG  Usage  18  P67  Operating Temperature Range  A0 – 85 °C[-40 – 185 °F]  Operation/Application  Signal  Shielded	Contact Current Rating (Max)	2 A
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 Operating Temperature Range Operation/Application  Circuit Application Shielded Shielded Shielded Signal	Reverse Gender	Yes
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	Circular Connector Contact Type	Socket
Mating Alignment Type  Housing Features  Circular Connector Shell Size  Dimensions  Wire Size  26 – 24 AWG  Usage Conditions  IP Water Sealing Level  Operating Temperature Range  Circuit Application  Signal  Shielded  Keyed  Keyed  Keyed  Keyed  Keyed  Au A S S CI-40 - 185 Pillows	Mechanical Attachment	
Housing Features  Circular Connector Shell Size  Dimensions  Wire Size  26 – 24 AWG  Usage Conditions  IP Water Sealing Level  Operating Temperature Range  Operation/Application  Circuit Application  Signal  Shielded  No	Polarization Code	A
Circular Connector Shell Size  Dimensions  Wire Size  26 – 24 AWG  Usage Conditions  IP Water Sealing Level  Operating Temperature Range  Circuit Application  Circuit Application  Signal  Shielded  No	Mating Alignment Type	Keyed
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	Housing Features	
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	Circular Connector Shell Size	18
Usage Conditions  IP Water Sealing Level IP67  Operating Temperature Range -40 – 85 °C[-40 – 185 °F]  Operation/Application  Circuit Application Signal  Shielded No	Dimensions	
IP Water Sealing Level Operating Temperature Range -40 – 85 °C[-40 – 185 °F]  Operation/Application Circuit Application Shielded No	Wire Size	26 – 24 AWG
Operating Temperature Range -40 – 85 °C[-40 – 185 °F]  Operation/Application  Circuit Application  Shielded  No	Usage Conditions	
Operation/Application         Circuit Application       Signal         Shielded       No	IP Water Sealing Level	IP67
Circuit Application Signal Shielded No		-40 - 85 °C[-40 - 185 °F]
Circuit Application Signal Shielded No	Operation/Application	
Shielded		Signal
Industry Standards		
	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 2023 (235)  Candidate List Declared Against: JUNE 2023 (235)  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 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**







TE Part # 2430565-1 M12 A CODE 8P, FEMALE, DOU END COMBINED

TE Part # 2373341-1 M12 A CODE 8P, FEMALE, DOU END COMBINED

# Also in the Series M12 Connector





M8/M12 Cable Assemblies(230)

# Customers Also Bought

















# **Documents**

# **Product Drawings**

M12,REAR MOUNT,FEMALE,A,8P,SOLDER WIRE

English

### **CAD Files**

**Customer View Model** 

ENG\_CVM\_CVM\_T4131012081-000\_B.3d\_igs.zip



English

**Customer View Model** 

ENG\_CVM\_CVM\_T4131012081-000\_B.3d\_stp.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_T4131012081-000\_B.2d\_dxf.zip

English

3D PDF

3D

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

M8 / M12 Connector System Catalog

Japanese

M12 PCB/Panel Connectors 8/12Pin

English

**Product Specifications** 

**Application Specification** 

English