



M12 Connector

TE Internal #: T4110012081-000

8 Position Circular Connector, Cable-to-Cable, Sealable, Wire & Cable, Signal, Cable Mount (Free-Hanging), Reverse Gender, Nickel, M12 Connector

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors



Number of Positions: 8

Connector System: **Cable-to-Cable**

Sealable: **Yes**

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

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

Features

Product Type Features

Assembly Requirement	Factory Assembled
Circular Connector Shell Type	Metal-Shell
Connector Product Type	Connector Assembly
Assembly Type	Electrical Connector
Connector System	Cable-to-Cable
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	With
Number of Positions	8
Number of Power Positions	0



Number of Signal Positions	8
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Contacts Preloaded	Yes
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Electrical Characteristics

Operating Voltage	30 VDC
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Body Features

O-Ring Material	Silicone
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Environmental Protection	IP67
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Environmental Protection Type	Elastomer Sealed
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Primary Product Color	Black
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Peripheral Seal Material	Silicone
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Shell Plating Material	Nickel
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Shell Base Material	Copper Alloy
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Circular Connector Insulation Material Type	Polyamide 66 GF25
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Hermetically Sealed	Yes
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Contact Features

Contact Current Rating (Max)	2 A
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Reverse Gender	Yes
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Circular Connector Contact Type	Socket
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Termination Features

Termination Method to Wire & Cable	Screw Terminal
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Mechanical Attachment

Mating Retention Type	Threaded Coupling
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Mating Alignment	With
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Connector Mounting Type	Cable Mount (Free-Hanging)
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Polarization Code	A
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Mating Alignment Type	Keyed
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Housing Features

Circular Connector Shell Size	20
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Dimensions

Wire Size	20 – 24 AWG
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Usage Conditions

IP Dust Sealing Level	6
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IP Water Sealing Level	IP67
Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]

Operation/Application

Durability Rating	100 Cycles
Circuit Application	Signal
Shielded	Yes

Industry Standards

UL Flammability Rating	UL 94HB
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Other

Field Serviceable	Yes
Position Locations Omitted	0

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (4% in 8824918311) 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	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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

 <p>TE Part # 544750-E M12 MALE, A CODE, 8P, 10.5MM SMT</p>	 <p>TE Part # 5-2172075-2 M12.MALE.PNLREAR.ACODE.8P. PCBSTD.RA.SHLD</p>	 <p>TE Part # 225291-E M12 MALE, A CODE,RA, 8P THR FRONT MOUNT</p>	 <p>TE Part # 484156-E M12 MALE, A CODE, 8P, 17MM THR</p>
 <p>TE Part # 364777-E M12 MALE, UNI CODE, 8P, 10.5MM SMT, DI</p>	 <p>TE Part # 464800-E M12 MALE, A CODE, 8P, 10.5MM SMT</p>	 <p>TE Part # 494524-E M12 MALE, A CODE, 8P, 10.5MM SMT</p>	 <p>TE Part # 225297-E M12 MALE, UNI CODE,RA, 8P THR REAR MOUNT</p>
 <p>TE Part # 225522-E M12 MALE, A CODE,RA, 8P THR FRONT MOUNT</p>	 <p>TE Part # 225614-E M12 MALE, A CODE,RA, 8P THR REAR MOUNT</p>	 <p>TE Part # 225294-E M12 MALE, A CODE,RA, 8P THR REAR MOUNT</p>	 <p>TE Part # 284810-E M12 MALE, A CODE, 8P, 10.5MM SMT</p>
 <p>TE Part # 225454-E M12 MALE, A CODE,RA, 8P THR REAR MOUNT</p>	 <p>TE Part # 515632-E M12 MALE, UNI CODE, 8P, 10.5MM SMT, DI</p>	 <p>TE Part # 494376-E M12 MALE, A CODE, 8P, 17MM SMT</p>	 <p>TE Part # 464676-E M12 MALE, A CODE, 8P, 10.5MM SMT</p>



TE Part # 534345-E
M12 M 8 A L90H T * 301 * 188 2 * Y Y * 0

TE Part # 5-2172081-2
M12.MALE.PNLREAR.ACODE.8P.PCBSTD.RA.SHLD

TE Part # 394331-E
M12 MALE, A CODE, 8P, 17MM SMT

TE Part # 5-2271111-2
M12.MALE.A CODE.8P.PG9.SHIELDED.(AU)

Also in the Series | M12 Connector

Connector Hardware(11)

Connector Seals & Cavity Plugs(4)

M8/M12 Cable Assemblies(230)

Standard Circular Connectors(793)

Customers Also Bought

TE Part #T4132012081-000
M12,FRONT MOUNT,MALE, A,8P, SOLDER WIRE

TE Part #T4110512041-000
M12 F, 4P GOLD D_CODE S SHIELDED PG9

TE Part #T4112512041-000
M12 F, 4P GOLD D_CODE RA SHIELDED PG9

TE Part #HSA405N00580100000
723 HTEC PLUG, SPEEDTEC

TE Part #T4113012081-000
M12 M, 8P GOLD A_CODE RA SHIELDED PG9

TE Part #T4111012051-000
M12 M, 5P GOLD A_CODE S SHIELDED PG9

TE Part #T4112012081-000
M12 F, 8P GOLD A_CODE RA SHIELDED PG9

TE Part #CJ6405-000
222K142-25/225-CS-2065-0

TE Part #T4171010004-002
M12,REAR MOUNTING,MALE,A,4P,0.5 M WIRE

TE Part #40-A702-000-P00
606 ETHERNET ELEMENT CAT 5



Documents

Product Drawings

M12 F, 8P GOLD A_CODE S SHIELDED PG9

English

CAD Files

Customer View Model

ENG_CVM_CVM_T4110012081-000_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_T4110012081-000_B.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_T4110012081-000_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

Product Specifications

Application Specification

English

Agency Approvals

UL

English