



M12 Connector

TE Internal #: T4111012051-000

Standard Circular Connectors, Cable-to-Cable, 5 Position, Sealable, Wire & Cable, Signal, Cable Mount (Free-Hanging), Reverse Gender, M12 Connector

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Connectors > Circular Connectors > Standard Circular Connectors



Connector System: **Cable-to-Cable**
Connector Mounting Type: **Cable Mount (Free-Hanging)**
Number of Positions: **5**
Sealable: **Yes**
Connector & Contact Terminates To: **Wire & Cable**

Features

Product Type Features

Product Type	Connector Assembly
Accessory Color	Black
Assembly Requirement	Factory Assembled
Assembly Type	Electrical Connector
Circular Connector Shell Type	Metal-Shell
Connector Product Type	Connector Assembly
Connector System	Cable-to-Cable
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	With



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
Voltage	250 Vrms

Body Features

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

Contact Features

Contact Current Rating (Max)	4 A
Reverse Gender	Yes
Circular Connector Contact Type	Pin

Mechanical Attachment

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

Housing Features

Circular Connector Shell Size	20
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Dimensions

Wire Size	.75 - .25 mm ²
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Usage Conditions

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IP Dust Sealing Level	6
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

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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) SVHC > Threshold: 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.
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 # T4110012051-000 M12 F, 5P GOLD A_CODE S SHIELDED PG9	 TE Part # 494145-E M12 FEMALE, A CODE, 5P, 17MM THR	 TE Part # 194781-E M12 FEMALE, A CODE, 5P, 17MM SMT	 TE Part # 224064-E M12 FEMALE, A CODE, 5P, 17MM SMT
 TE Part # 225273-E M12 FEMALE, A CODE,RA, 5P THR REAR MOUNT	 TE Part # 225275-E M12 FEMALE, A CODE,RA, 5P THR REAR MOUNT	 TE Part # 225457-E M12 FEMALE, A CODE,RA, 5P THR REAR MOUNT	 TE Part # 235164-E M12 FEMALE, A CODE,RA, 5P THR REAR MOUNT
 TE Part # 354098-E M12 FEMALE, A CODE, 5P, 17MM SMT	 TE Part # 354702-E M12 FEMALE, A CODE, 5P, 17MM SMT	 TE Part # 454950-E M12 FEMALE, A CODE, 5P, 17MM SMT	 TE Part # 484896-E M12 FEMALE, A CODE, 5P, 17MM SMT
 TE Part # 494081-E M12 FEMALE, A CODE, 5P, 17MM THR	 TE Part # 2468621-1 M12 REC. HEADER 5 POS. VERT. A- CODE	 TE Part # 2468621-2 M12 REC. HEADER 5 POS. VERT. A- CODE	 TE Part # 4-2172079-2 M12.FMLE.PNLREAR.AC0DE.5P. PCBSTD.RA.SHLD



TE Part # 225286-E
M12 FEMALE, UNI CODE,RA, 5P THR R-MOUNT

TE Part # 515934-E
M12 FEMALE, A CODE, 5P, 17MM SMT

Also in the Series | M12 Connector

Connector Caps & Covers(5)

Connector Hardware(12)

Connector Seals & Cavity Plugs(4)

M8/M12 Cable Assemblies(230)

Standard Circular Connectors(803)

Customers Also Bought

TE Part # 1-2273107-1
M12 Y conn Male to 2xM12 Female A

TE Part # T4113012051-000
M12 M, 5P GOLD A_CODE RA SHIELDED PG9

TE Part # T4112012051-000
M12 F, 5P GOLD A_CODE RA SHIELDED PG9

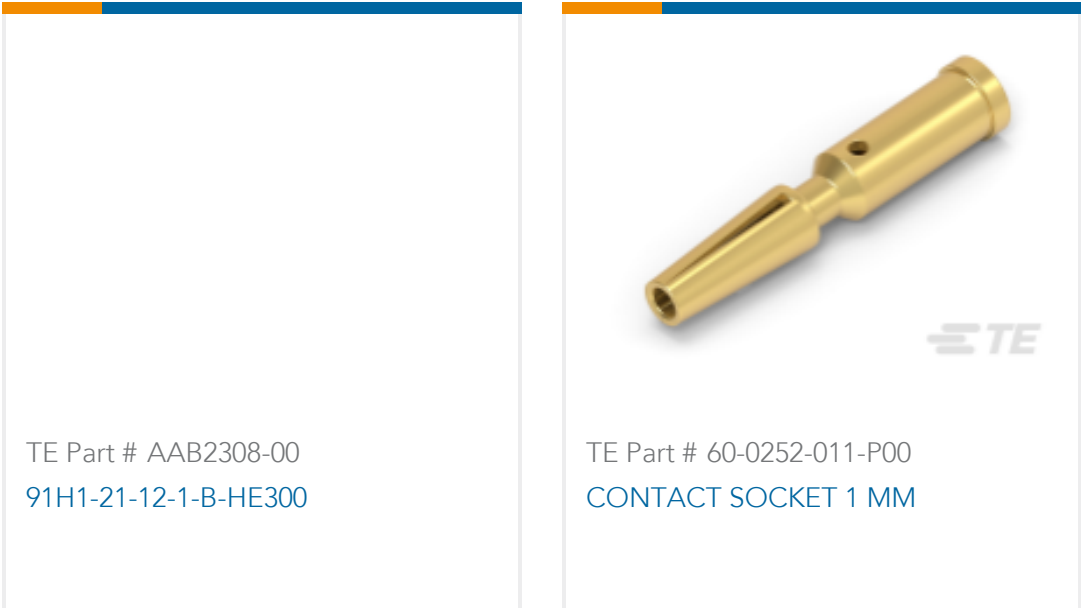
TE Part # 3-640430-2
02P MTA156 CONN ASSY 26AWG BLU

TE Part # 2331374-1
DET SW3.50X2.8X1.5 JB VERT. NO AG RL

TE Part # 2331395-1
DET SW4.7X3.5X2.25 GW VERT. NOH AG RL

TE Part # 2331365-1
DET SW4.7X3.8X2.3 GW VERT. NO AG RL

TE Part # CSA263N00260020000
940 PLUG, SPEEDTEC



Documents

Product Drawings
M12 M, 5P GOLD A_CODE S SHIELDED PG9
English

CAD Files
Customer View Model
ENG_CVM_CVM_T4111012051-000_B.3d_igs.zip
English
Customer View Model
ENG_CVM_CVM_T4111012051-000_B.3d_stp.zip
English
Customer View Model
ENG_CVM_CVM_T4111012051-000_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

Product Specifications
Application Specification
English

Agency Approvals
UL
English