



M12 Connector

TE Internal #: 6-2271110-2

12 Position Circular Connector, Cable-to-Cable, Sealable, Wire & Cable, Signal, Reverse Gender, Plastic, A Code, Polyamide 66
GF25, M12 Connector

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors



Number of Positions: 12

Connector System: Cable-to-Cable

Sealable: Yes

Connector & Contact Terminates To: Wire & Cable

Contact Current Rating (Max): 1.5 A

Features

Product Type Features

Assembly Requirement	Factory Assembled
Circular Connector Shell Type	All Plastic
Connector Product Type	Connector Assembly
Assembly Type	Electrical Connector
Prewired	No
Connector System	Cable-to-Cable
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Plug
Shell Type	Plastic

Configuration Features

Keying & Polarized Position Locations	A
Factory Installed Backshell	With
Number of Positions	12



Number of Power Positions	0
Number of Signal Positions	12
Contacts Preloaded	Yes

Body Features

Environmental Protection	IP67
Environmental Protection Type	Sealed
Primary Product Color	Black
Shell Base Material	Plastic
Circular Connector Insulation Material Type	Polyamide 66 GF25
Hermetically Sealed	Yes

Contact Features

Contact Current Rating (Max)	1.5 A
Reverse Gender	Yes
Circular Connector Contact Type	Pin

Termination Features

Termination Method to Wire & Cable	Solder
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Mechanical Attachment

Mating Retention Type	Threaded
Mating Alignment	With
Polarization Code	A
Mating Alignment Type	Keyed
Mating Retention	With

Housing Features

Circular Connector Shell Size	20
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Dimensions

Wire Size	24 AWG
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Usage Conditions

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

Operation/Application

Circuit Application	Signal
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Shielded	No
Industry Standards	
Compatible With Approved Standards Products	IEC

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) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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 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 # 6-2271137-2
M12,FEMALE PNL,A CODE,SOLDER REAR,12P(AU)



TE Part # 6-2271143-2
M12,FEMALE PNL,A CODE,12P,PCB TYPE, (AU)



TE Part # CAT-C73765-M1F
M12 Panel Mount Wire

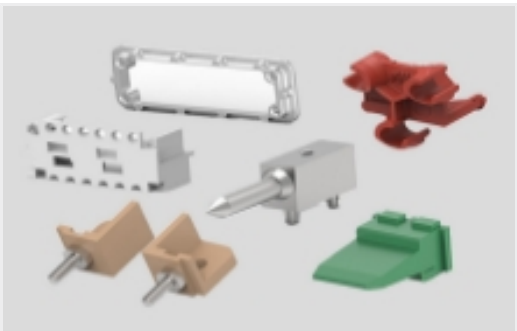


TE Part # CAT-C73765-M1H
M12 Panel Mount PCB



TE Part # CAT-C73765-M1G
M12 Panel Mount Solder Cups

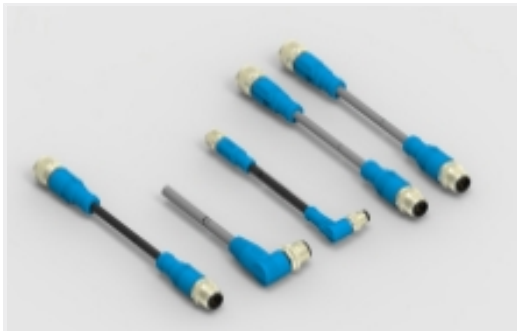
Also in the Series | M12 Connector



Connector Hardware(11)



Connector Seals & Cavity Plugs(4)



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(793)

Customers Also Bought



TE Part #205560-2
AMPLIMITE,ASY,PLUG,STD,109,3



TE Part #6-2271116-2
M12, FEMALE, A CODE, 12P, PG9 (AU)



TE Part #T4131012121-000
M12,REAR MOUNT,FEMALE,A,12P, SOLDER WIRE



TE Part #9-2176406-3
3560 6K8 1%



TE Part #T4011008041-000
M8,SCREW, MALE,S,UNSHIELD,4P, GOLD



TE Part #T4111002081-000
M12,MALE,STRAIGHT,A CODE,8P, PG9,GOLD



TE Part #CAT-C73765-M1F
M12 Panel Mount Wire



TE Part #472967-000
CTC-0018-22-9/5-9CS2340



TE Part #CS4391-000
44A0311-0-9



Documents

Product Drawings

M12, MALE, A CODE, 12P, PG9 (AU)

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6-2271110-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_6-2271110-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6-2271110-2_A.3d_stp.zip

English

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