



M12 Connector

TE Internal #: 6-2271128-2

Cable-to-Cable, 12 Position, Sealable, Wire & Cable, Signal, Cable Mount (Free-Hanging), Reverse Gender, M12 Connector, Standard Circular Connectors

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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: **12**
Sealable: **Yes**
Connector & Contact Terminates To: **Wire & Cable**

Features

Product Type Features

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|-----------------------------------|----------------------|
| Product Type | Connector Assembly |
| Accessory Color | Black |
| Assembly Requirement | Factory Assembled |
| Assembly Type | Electrical Connector |
| Circular Connector Shell Type | All Plastic |
| Connector Product Type | Connector Assembly |
| Connector System | Cable-to-Cable |
| Sealable | Yes |
| Connector & Contact Terminates To | Wire & Cable |
| Circular Connector Type | Receptacle |
| Shell Type | Plastic |

Configuration Features

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|---------------------------|----|
| Number of Positions | 12 |
| Number of Power Positions | 0 |



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|----------------------------|----|
| Number of Signal Positions | 12 |
|----------------------------|----|

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|--------------------|-----|
| Contacts Preloaded | Yes |
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Body Features

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|------------------------|----------|
| Shell Plating Material | Unplated |
|------------------------|----------|

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|---------------------|---------|
| Shell Base Material | Plastic |
|---------------------|---------|

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|---------------------------------------------|-------------------|
| Circular Connector Insulation Material Type | Polyamide 66 GF25 |
|---------------------------------------------|-------------------|

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|---------------------|-----|
| Hermetically Sealed | Yes |
|---------------------|-----|

Contact Features

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|------------------------------|-----|
| Contact Current Rating (Max) | 2 A |
|------------------------------|-----|

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|----------------|-----|
| Reverse Gender | Yes |
|----------------|-----|

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|---------------------------------|--------|
| Circular Connector Contact Type | Socket |
|---------------------------------|--------|

Mechanical Attachment

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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 |
|-----------------------|-------|

Housing Features

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|-------------------------------|----|
| Circular Connector Shell Size | 20 |
|-------------------------------|----|

Dimensions

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|-----------|-------------------------------------------------------|
| Wire Size | .14 – .25 mm ² , .14 – .25 mm ² |
|-----------|-------------------------------------------------------|

Usage Conditions

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|------------------------|---|
| IP Water Sealing Level | 7 |
|------------------------|---|

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|-----------------------|---|
| IP Dust Sealing Level | 6 |
|-----------------------|---|

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|-----------------------------|---------------------------|
| Operating Temperature Range | -40 – 85 °C[-40 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

| | |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

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|----------|----|
| Shielded | No |
|----------|----|

Product Compliance

For compliance documentation, visit the product page on TE.com>

| | |
|------------------------------|---------------------------|
| EU RoHS Directive 2011/65/EU | Compliant with Exemptions |
|------------------------------|---------------------------|

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|-----------------------------|---------------------------|
| EU ELV Directive 2000/53/EC | Compliant with Exemptions |
|-----------------------------|---------------------------|

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|-----------------------------------------------|--------------------------------------|
| 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 2024 (241)
Candidate List Declared Against: JUNE 2024 (241)
SVHC > Threshold:
Pb (.22% 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 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 # CAT-C73765-M1G
M12 Panel Mount Solder Cups




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




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



TE Part # 6-2271122-2
M12, MALE, A CODE, R/A, 12P, PG9 (AU)




TE Part # 6-2271134-2
M12,MALE PNL,A CODE,SOLDER REAR,12P,(AU)



TE Part # T4171230012-003
M12,FRONT MOUNT,MALE, A, 12P, 1.0M WIRE


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 #HD16-6-12S-B010
PLG, 6P, GRY, N, DATALINK, 12



TE Part #HD18-006
BACK SHELL



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



TE Part #2-1393248-6
W33-S4B1Q-15=W33



TE Part #6-2271110-2
M12, MALE, A CODE, 12P, PG9 (AU)



TE Part #HDP26-24-47PE-L017
PLG, 47P, BLK, E, RNG, 16/20, P



TE Part #61227-1
250 FASTON REC 14-10 AWG TPBR



TE Part #L9000230-01
Antenna WiFi6/6E FPC 20x110 100 UFL

TE Part #2260862-2
F07 APF CABLE ASSY 1M

TE Part #2260862-1
F07 APF CABLE ASSY 0.5M

Documents



CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6-2271128-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_6-2271128-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6-2271128-2_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

Product Specifications

Product Specification

English