

1-2823445-9 ✓ ACTIVE

## M12 Connector

TE Internal #: 1-2823445-9

4 Position Circular Connector, Cable-to-Cable, Sealable, Wire & Cable, Signal, Reverse Gender, Plastic, Code D, M12 Connector

[View on TE.com >](#)



Connectors > Circular Connectors > Standard Circular Connectors > M12 Straight Crimped Strain Relief



Number of Positions: 4

Connector System: Cable-to-Cable

Sealable: Yes

Connector & Contact Terminates To: Wire & Cable

Contact Current Rating (Max): 4 A

[All M12 Straight Crimped Strain Relief \(53\)](#)

## Features

### Signal Characteristics

Data Rate	≤1 Gb/s
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### Electrical Characteristics

Operating Voltage	50 VDC
EMI & RFI Protection & Suppression Type	Shielding

### Packaging Features

Packaging Quantity	1
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### Termination Features

Termination Method to Wire & Cable	Crimp
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### Industry Standards

Compatible With Approved Standards Products	IEC
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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]

### Mechanical Attachment

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

### Body Features

Product Weight	25 g[.8832 oz]
O-Ring Material	EPDM
Environmental Protection	IP67
Environmental Protection Type	Sealed
Primary Product Color	Black
Shell Base Material	Plastic
Circular Connector Insulation Material Type	Low Fire Hazard Thermoplastic
Hermetically Sealed	Yes

### Operation/Application

Durability Rating	250 Cycles
Circuit Application	Signal
Shielded	Yes

### 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	D
Factory Installed Backshell	With
Number of Positions	4
Number of Power Positions	0
Number of Signal Positions	4
Contacts Preloaded	Yes

### Contact Features

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

### Housing Features

Circular Connector Shell Size	16
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### Other

EU RoHS Compliance	Compliant
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### Product Compliance

For compliance documentation, visit the product page on [TE.com](http://TE.com)>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUN 2018 (191) SVHC > Threshold: Not Yet Reviewed
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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

## Compatible Parts



TE Part # 1-2823560-1  
ASSEMBLY TOOL HANDLE FOR  
CRIMP FLANGE



TE Part # 1-2823557-1  
CRIMP TOOL FOR CRIMP FLANGE  
/SLEEVE



TE Part # 601966-1  
CRIMPING TOOL M22520/2-01



TE Part # CAT-M1-M1  
M12 Assembly Tooling



TE Part # 1-2823561-1  
UNIVERSAL INSERT (ALL M12 CODES)



TE Part # 601967-1  
CRIMPING TOOL M22520/1-01

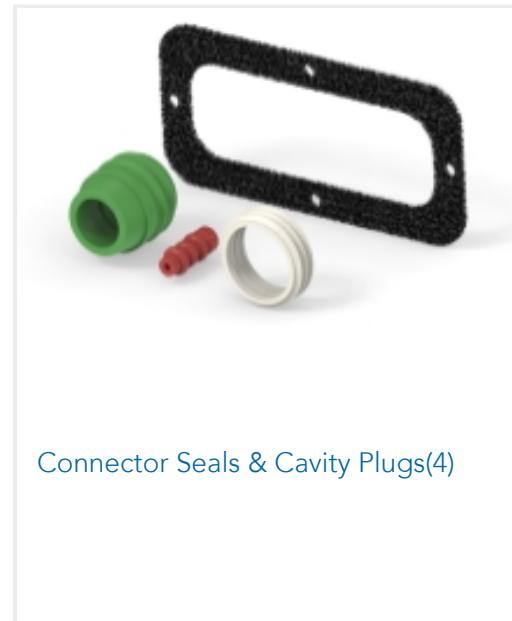


TE Part # CAT-R131-IN722  
Crimp Insert for Use with 1-2823557-1

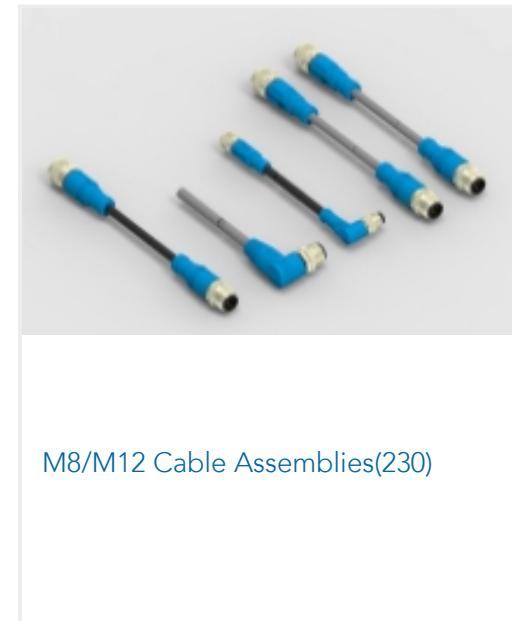
## Also in the Series | M12 Connector



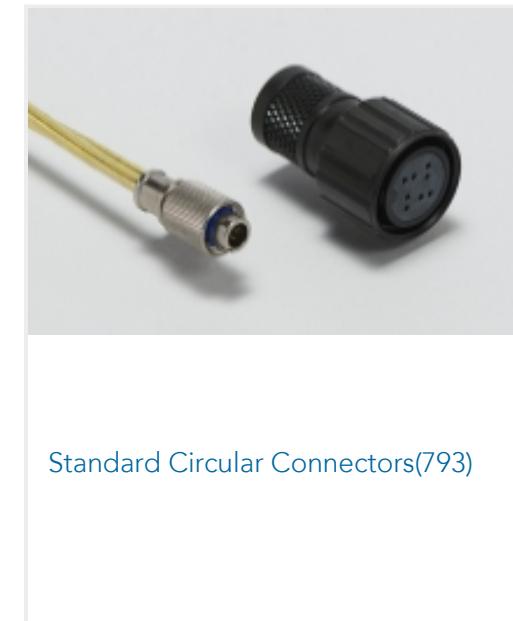
Connector Hardware(11)



Connector Seals & Cavity Plugs(4)

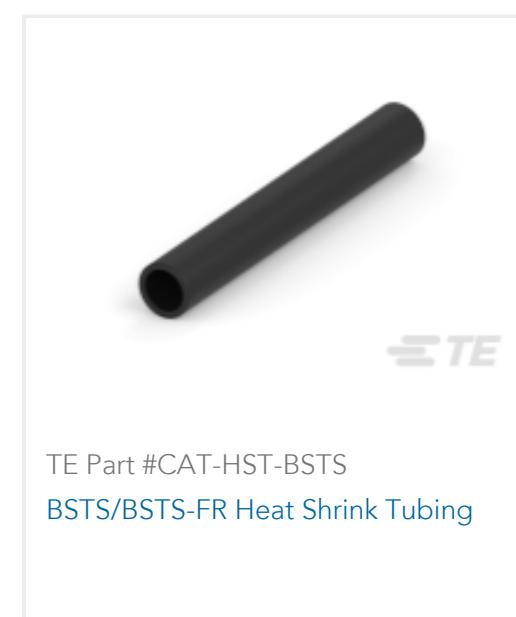


M8/M12 Cable Assemblies(230)



Standard Circular Connectors(793)

## Customers Also Bought

TE Part #1617807-5  
FC-335-SY8= RELAY, 3PSTTE Part #1616058-6  
A703CD (FAA/PMA)=RELAYTE Part #CAT-HST-BSTS  
BSTS/BSTS-FR Heat Shrink TubingTE Part #ZPF00000000001261  
097-0267-16 A1267TE Part #1617147-5  
JMGAP-26P = M39016/17-030PTE Part #358279-000  
382C312-50-01-0TE Part #ZPF00000000007174  
983-0RS 08-98 PNTE Part #YDTS20Y13-98XNV001  
HERM RECP

## Documents

### Product Drawings

#### M12 D-M-4 CRIMP CAT 5 RADOX 6.6MM, LEONI

English

### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823445-9\\_A.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823445-9\\_A.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-2823445-9\\_A.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

#### M12 RAIL CONNECTOR SERIES

English

#### M12 Rail Straight Connector

English

### Product Specifications

#### Product Specification

English

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Reverse Gender, Plastic, Code D, M12 Connector

