



M12 Connector

TE Internal #: 1-2823447-1
Cable-to-Cable, 8 Position, Sealable, Wire & Cable, Signal, Reverse Gender, Plastic, A Polarization Code, M12 Connector, Standard Circular Connectors

[View on TE.com >](#)

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



Connector System: **Cable-to-Cable**
Number of Positions: **8**
Sealable: **Yes**
Connector & Contact Terminates To: **Wire & Cable**
Contact Current Rating (Max): **2 A**

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

Features

Product Type Features

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

Configuration Features

Number of Positions	8
Number of Power Positions	3



Number of Signal Positions	8
Contacts Preloaded	Yes
Keying & Polarized Position Locations	A
Factory Installed Backshell	With

Contact Features

Contact Current Rating (Max)	2 A
Reverse Gender	Yes
Circular Connector Contact Type	Pin

Operation/Application

Circuit Application	Signal
Shielded	Yes
Durability Rating	250 Cycles

Body Features

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

Mechanical Attachment

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

Dimensions

Wire Size	.0326 mm ²
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Housing Features

Circular Connector Shell Size	16
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Usage Conditions

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

Other

EU RoHS Compliance	Compliant with Exemptions
EU ELV Compliance	Compliant

Electrical Characteristics

Operating Voltage	30 VDC
EMI & RFI Protection & Suppression Type	Shielding

Termination Features

Termination Method to Wire & Cable	Crimp
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Industry Standards

Compatible With Approved Standards Products	IEC
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Packaging Features

Packaging Quantity	1
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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
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 (3.5% 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 # 1-2823557-1
CRIMP TOOL FOR CRIMP FLANGE /SLEEVE



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



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



TE Part # CAT-M1-M1
M12 Assembly Tooling



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

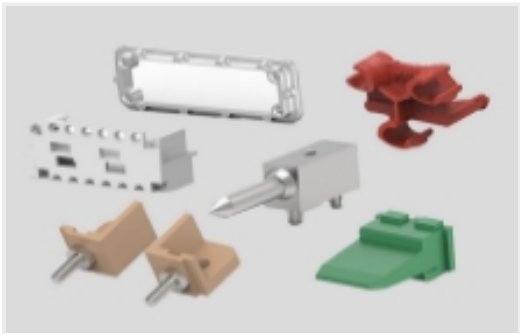


TE Part # 601966-1
CRIMPING TOOL M22520/2-01



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

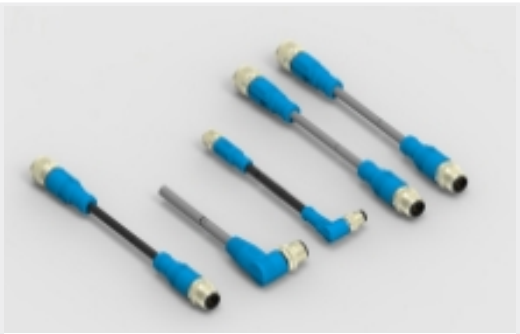
Also in the Series | M12 Connector



Connector Hardware(11)



Connector Seals & Cavity Plugs(4)



M8/M12 Cable Assemblies(230)



Standard Circular Connectors(793)

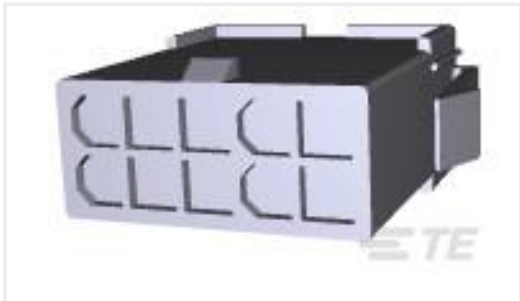
Customers Also Bought



TE Part #35559
TERMINAL,PIDG SPD 16-14 6



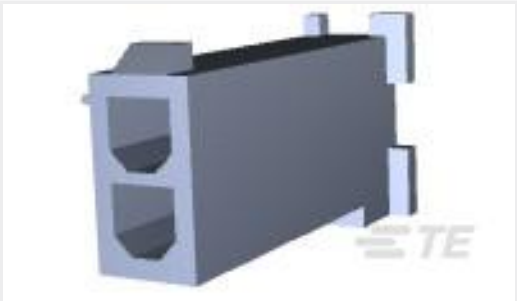
TE Part #1-2823446-7
M12 D-F-4 CRIMP ST CAT 7 RADOX 8.2MM,H&S



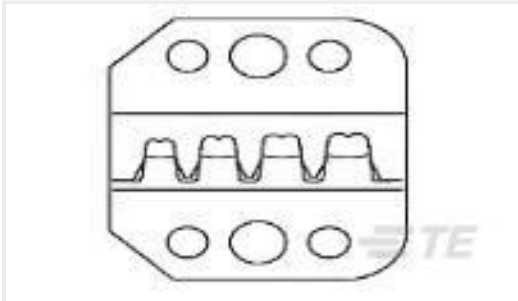
TE Part #794942-1
10P MINI UMNL CAP HSG



TE Part #1-770987-0
MINI UMNL PIN 22-18 AWG AU LP



TE Part #172233-1
2 POS MINI UMNL CAP HOUSING



TE Part #90759-2
PROCRIMP DIE MINI UNIV MNL



TE Part #1-2823448-5
M12 A-F-8 CRIMP ST CAT 7 RADOX 8.2MM,H&S



TE Part #YD369-MP66-NP00000
369 6 WAY SHIELDED PLUG, NO CONTACTS,PIN



TE Part #YD369-MR66-NS00000
369 6 WAY SHIELDED REC, NO CONTACTS,SKT



TE Part #1-770988-0
MINI UMNL SOK 22-18AWG AU

Documents

Product Drawings

M12 A-M-8 CRIMP ST ,CAT7 RADOX 8.2MM,H&S

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-2823447-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-2823447-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-2823447-1_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

Application Specification

English