



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

Product Type	Connector Kit
Connector System	Cable-to-Cable
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Plug
Shell Type	Full Metal Shell

Configuration Features

Number of Positions	8
Contacts Preloaded	No

Electrical Characteristics

Operating Voltage	30 VDC
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Signal Characteristics

Data Rate	1 Gb/s
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Body Features

Environmental Protection Type	Elastomer Sealed
Environmental Protection	Yes
Weight	25 g[.0552 lb]
Shell Plating Material	Nickel
Shell Base Material	Brass
Circular Connector Insulation Material Type	Low Fire Hazard Thermoplastic
Hermetically Sealed	Yes

Contact Features

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

Mechanical Attachment

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

Dimensions

Compatible Insulation Diameter Range	8.8 mm
Wire Size	24 AWG

Usage Conditions

IP Water Sealing Level	IP67
IP Dust Sealing Level	6
Operating Temperature Range	-40 – 70 °C, -40 – 85 °C[-40 – 158 °F][-40 – 185 °F]

Operation/Application

Durability Rating	250 Cycles
Circuit Application	Signal
Shielded	Yes

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	1
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Other

Field Serviceable	Yes
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Product Compliance

[For compliance documentation, visit the product page on 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 2023 (235) 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 # 1-2823557-1
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

Customers Also Bought



TE Part #1-2273006-1
M8 Connector: Pigtail Cable, Straight, Male



TE Part #2273048-1
M12 x 1.0 straight plug pigtail A



TE Part #1408349-1
QMA BULKHEAD CABLE JACK, .141



TE Part #521743-1
FF 250 HOUSING RECEPTACLE NYLON 6/6



TE Part #NB20364001
VERSAFIT-3/16-4-SP



TE Part #9-328666-1
FERRULE, LEAD FREE PLATING

Documents

Product Drawings

M12 A-M-8,CAT7 BETATRANS C-FLE8.8MM,LEON

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-2823447-2_A.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_1-2823447-2_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-2823447-2_A.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

M12 RAIL CONNECTOR SERIES

English

M12 Rail Straight Connector

English

Product Specifications

Product Specification

English