

**M12 Connector**

TE Internal #: 1-2823447-1

Standard Circular Connectors, Cable-to-Cable, 8 Position, Sealable, Wire & Cable, Signal, Cable Mount (Free-Hanging), Reverse Gender, M12 Connector

[View on TE.com >](#)[Connectors > Circular Connectors > Standard Circular Connectors > M12 Straight Crimped Strain Relief](#)Connector System: **Cable-to-Cable**Connector Mounting Type: **Cable Mount (Free-Hanging)**Number of Positions: **8**Sealable: **Yes**Connector & Contact Terminates To: **Wire & Cable**[All M12 Straight Crimped Strain Relief \(53\)](#)**Features****Product Type Features**

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	Plug
Shell Type	Plastic

**Configuration Features**

Number of Positions	8
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Number of Power Positions	3
Number of Signal 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	Yes
Weight	25 g [.0552 lb]
Environmental Protection Type	Elastomer Sealed
Shell Plating Material	Unplated
Shell Base Material	Plastic
Circular Connector Insulation Material Type	Low Fire Hazard Thermoplastic
Hermetically Sealed	Yes

#### Contact Features

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

#### Mechanical Attachment

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

#### Housing Features

Circular Connector Shell Size	16
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#### Dimensions

Compatible Insulation Diameter Range	8.2 mm
Wire Size	22 AWG

#### Usage Conditions

IP Dust Sealing Level	6
IP Water Sealing Level	IP67

## Operating Temperature Range

-40 - 85 °C [-40 - 185 °F]

## Operation/Application

## Durability Rating

250 Cycles

## Circuit Application

Signal

## Shielded

Yes

## Industry Standards

## UL Flammability Rating

UL 94V-0

## Packaging Features

## Packaging Quantity

1

## Other

## Field Serviceable

Yes

## Product Compliance

For compliance documentation, visit the product page on [TE.com](http://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: JAN 2024

(240)

Candidate List Declared Against: JAN 2024  
(240)

SVHC &gt; 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 &lt; 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



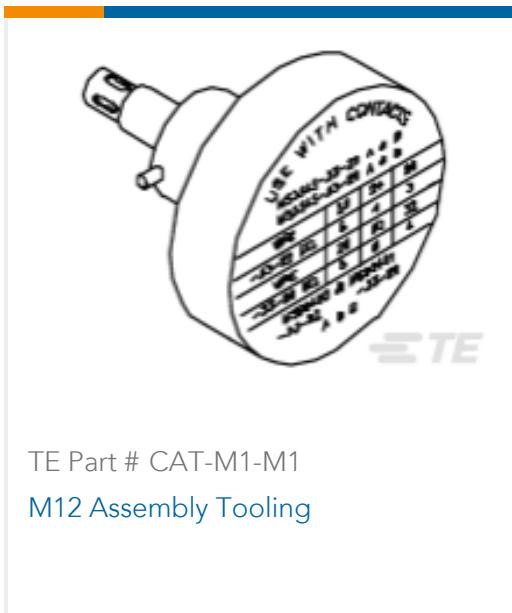
TE Part # 1-2823557-1  
CRIMP TOOL FOR CRIMP FLANGE /SLEEVE



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



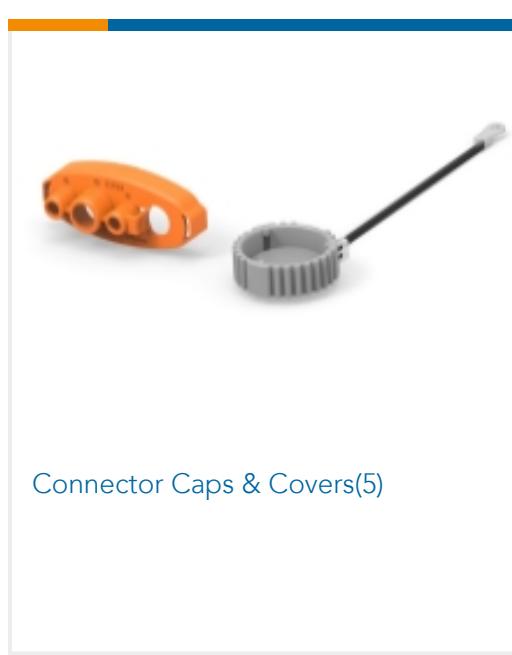
TE Part # 601966-1  
CRIMPING TOOL M22520/2-01



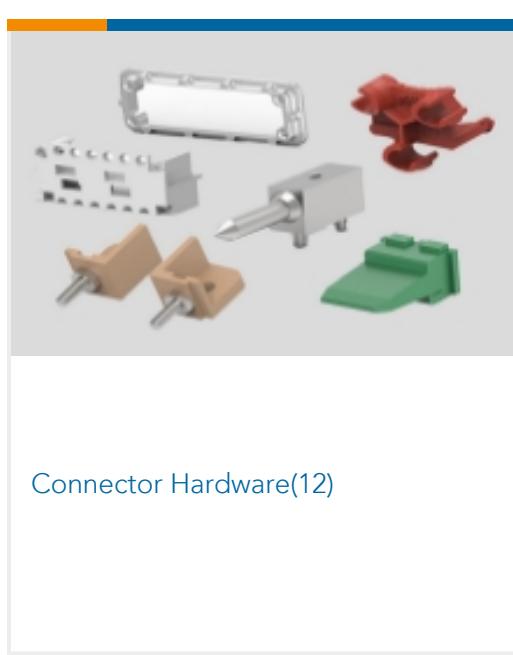
TE Part # 601967-1  
CRIMPING TOOL M22520/1-01

## Also in the Series

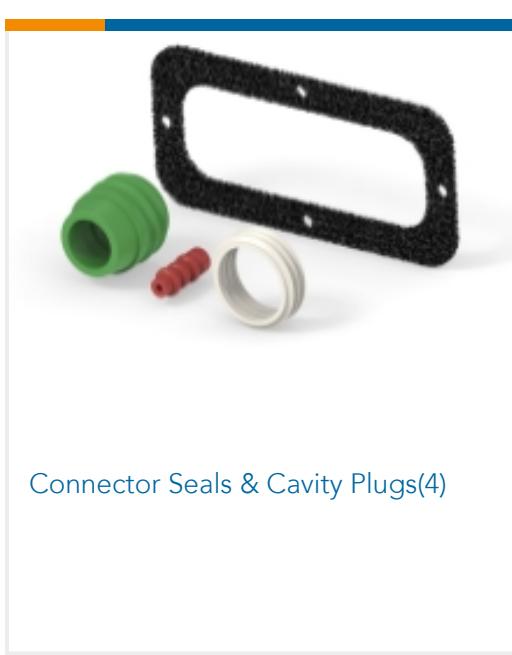
### M12 Connector



Connector Caps & Covers(5)



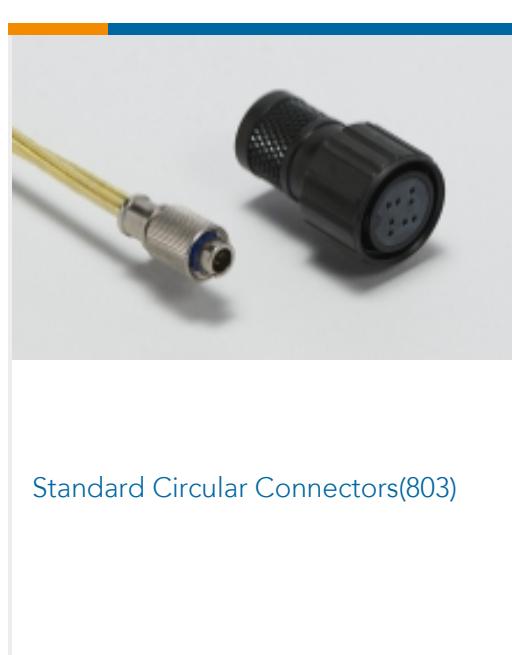
Connector Hardware(12)



Connector Seals & Cavity Plugs(4)

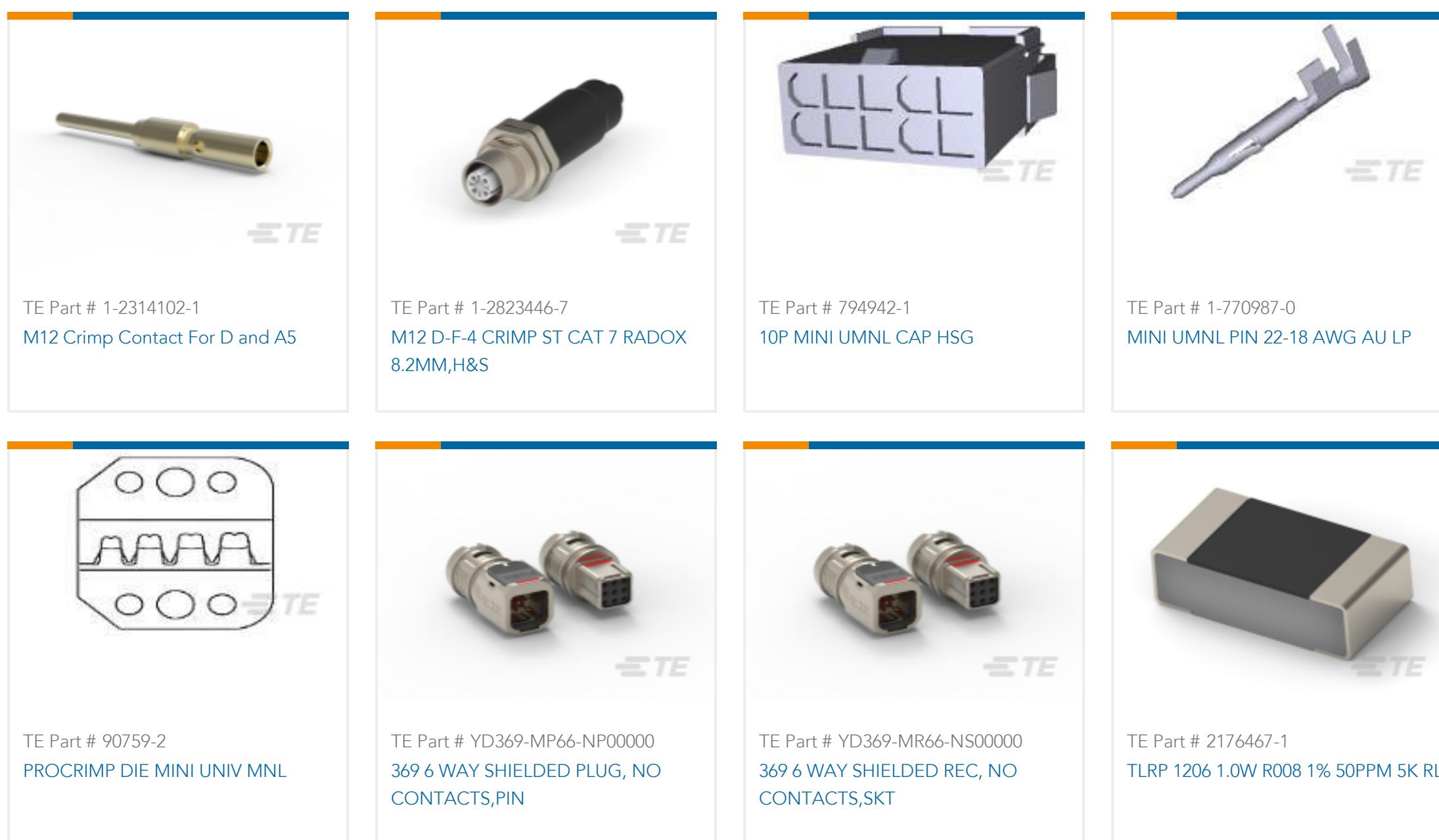


M8/M12 Cable Assemblies(230)



Standard Circular Connectors(803)

## Customers Also Bought



## 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

