

641974-1 ✓ ACTIVE

MATE-N-LOK | Universal MATE-N-LOK

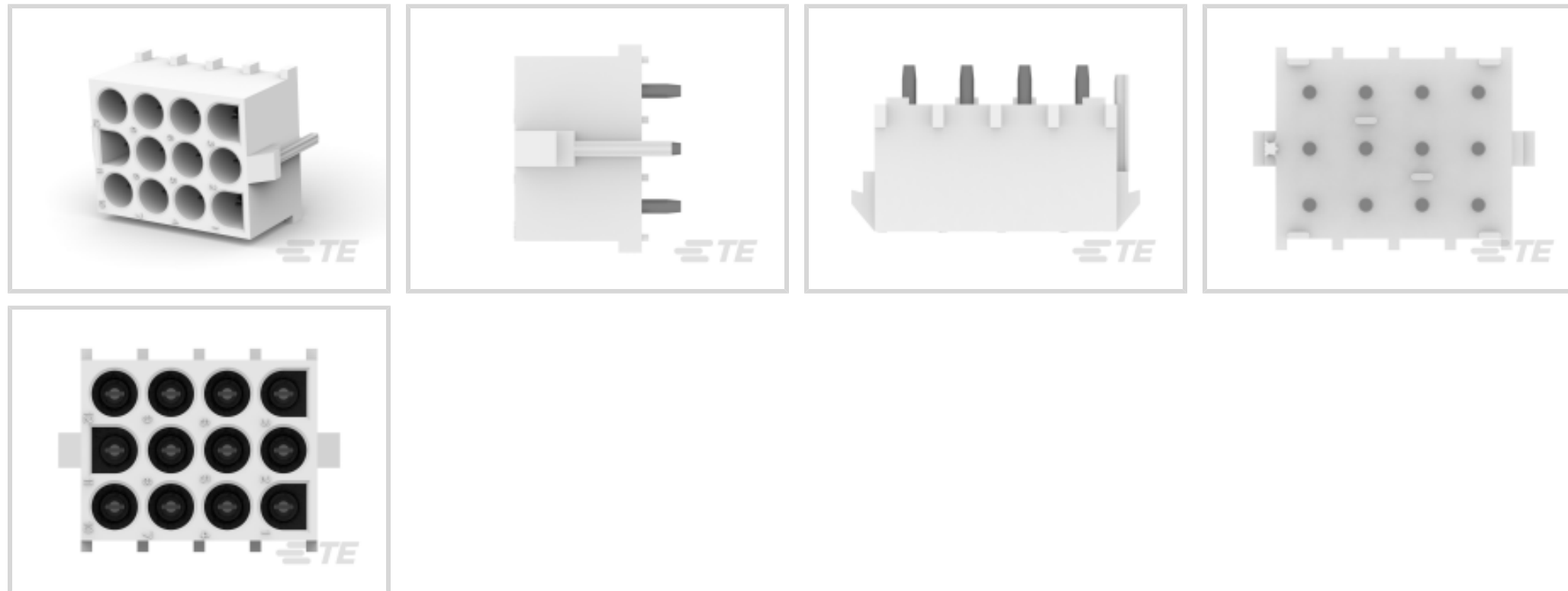
TE Internal #: 641974-1

PCB Mount Header, Vertical, Wire-to-Board, 12 Position, 6.35 mm [.25 in] Centerline, Fully Shrouded, Pre-Tin, Universal MATE-N-LOK

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

Connector System: **Wire-to-Board**

Number of Positions: **12**

Centerline (Pitch): **6.35 mm [.25 in]**

## Features

### Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

### Configuration Features

Number of Columns	4
Number of Loaded Positions	12
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	12
Number of Rows	3



Number of Power Positions	12
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### Electrical Characteristics

Operating Voltage	600 VAC
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### Body Features

Primary Product Color	White
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### Contact Features

Contact Underplating Material	Nickel
Mating Pin Diameter	2.2 mm[.087 in]
Contact Underplating Material Thickness	1.27 – 1.79 $\mu\text{m}$ [50 – 70 $\mu\text{in}$ ]
Contact Size	2.2mm
PCB Contact Termination Area Plating Material Thickness	3.81 – 5.08 $\mu\text{m}$ [150 – 200 $\mu\text{in}$ ]
Contact Shape & Form	Round
Contact Layout	Matrix
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Pre-Tin
Contact Mating Area Plating Material Thickness	3.81 – 5.08 $\mu\text{m}$ [150 – 200 $\mu\text{in}$ ]
Contact Type	Pin
Contact Current Rating (Max)	12 A
PCB Contact Termination Area Plating Material	Pre-Tin

### Termination Features

Termination Post & Tail Diameter	1.57 mm[.062 in]
Termination Post & Tail Length	3.56 mm[.14 in]
Termination Method to PCB	Through Hole - Solder

### Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Locking Tab
Mating Alignment Type	Polarization
PCB Mount Alignment Type	Standard Polarized Tail
PCB Mount Alignment	With
Mating Retention	With
PCB Mount Retention	Without
Connector Mounting Type	Board Mount



Mating Alignment	With
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### Housing Features

Mating Entry Location	Top
Centerline (Pitch)	6.35 mm [.25 in]
Housing Material	Nylon

### Dimensions

Row-to-Row Spacing	6.35 mm [.25 in]
Connector Width	20.32 mm [.8 in]
PCB Thickness (Recommended)	1.57 mm [.062 in]
Connector Height	13.97 mm [.55 in]
Connector Length	26.67 mm [1.05 in]
Profile Height from PCB	14.73 mm [.58 in]

### Usage Conditions

Operating Temperature (Max)	105 °C [221 °F]
Operating Temperature Range	-40 – 105 °C [-40 – 221 °F]

### Operation/Application

Circuit Application	Power
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### Industry Standards

Compatible With Agency/Standards Products	CSA, UL, VDE
UL Rating	Recognized
Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

### Packaging Features

Packaging Quantity	94
Packaging Method	Carton

### 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	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted


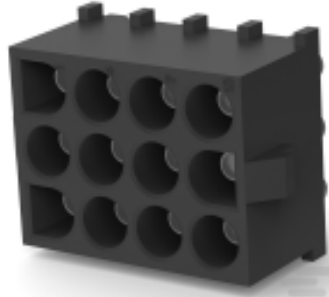


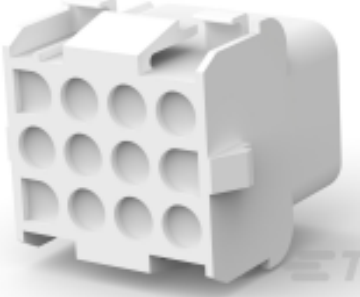





<p>EU REACH Regulation (EC) No. 1907/2006</p>	<p>Substance(s) Above Threshold</p> <p>Current ECHA Candidate List: JUNE 2025 (250)</p> <p>Candidate List Declared Against: JUNE 2025 (250)</p> <p>Does not contain REACH SVHC</p>
<p>Halogen Content</p>	<p>Low Halogen - Br, Cl, F &lt; 900 ppm per homogenous material. Also BFR/CFR/PVC Free</p>
<p>Solder Process Capability</p>	<p>Wave solder capable to 265°C</p>

Product Compliance Disclaimer

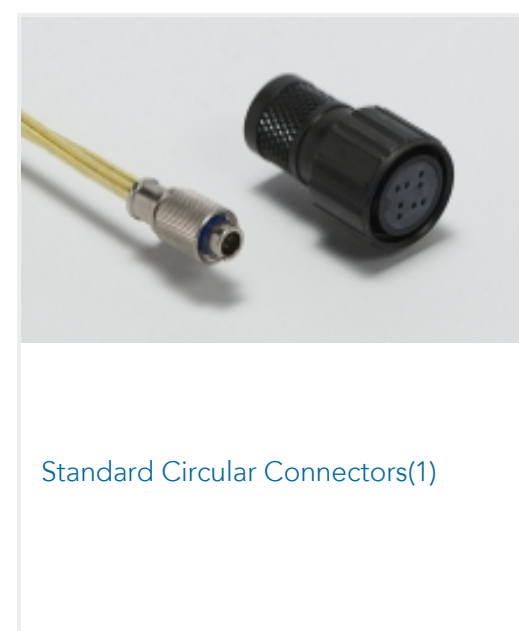
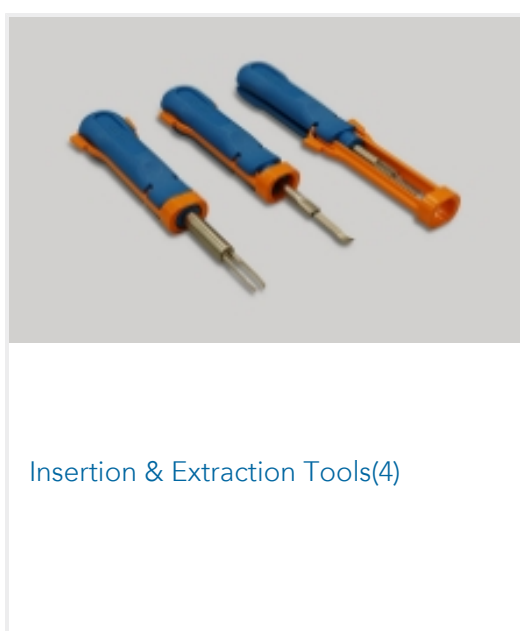
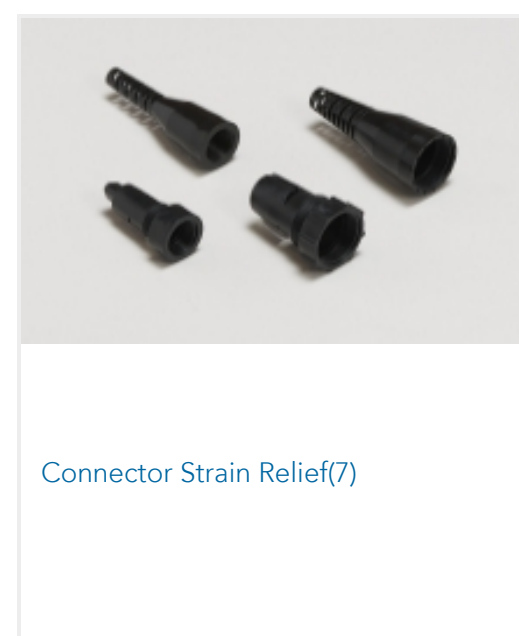
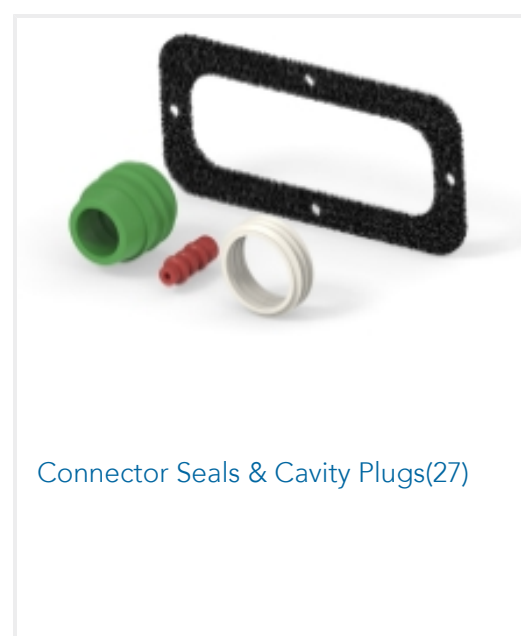
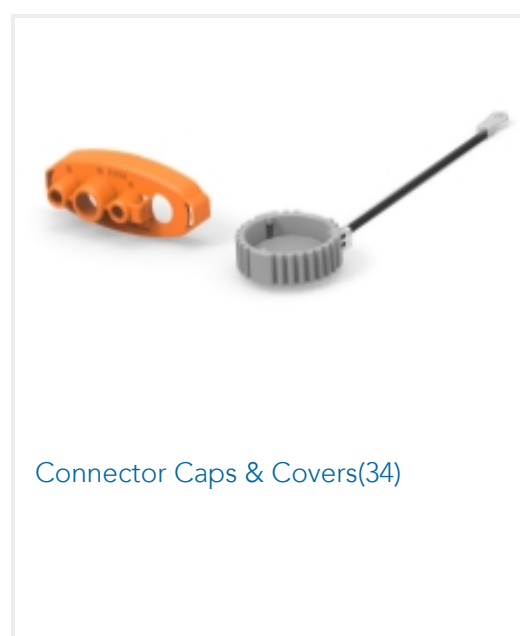
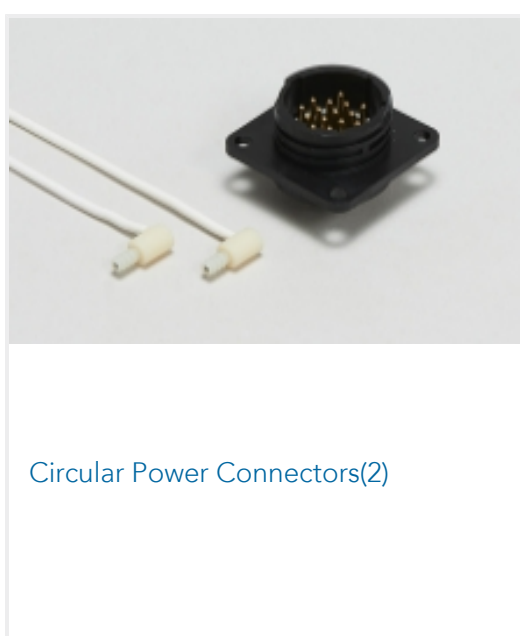
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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>

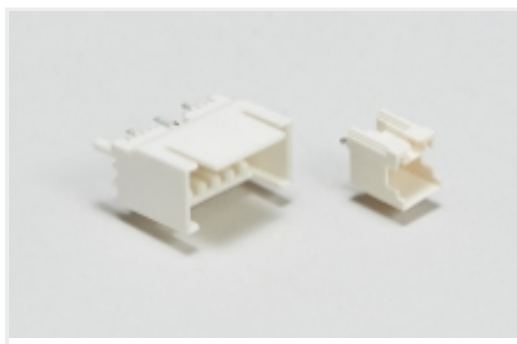
## Compatible Parts

 <p>TE Part # 350812-1 STR/REL CLAMP UMNL</p>	 <p>TE Part # 643428-2 12P UMNL HDR ASSY POL</p>	 <p>TE Part # 794279-1 12P UMNL INTERFACE SEAL</p>	 <p>TE Part # 926681-3 12P UNIV.CAP HSG.</p>
 <p>TE Part # 926681-1 UNIV.M-N-L.CAP HSG.</p>	 <p>TE Part # 1-350590-0 STR/REL CLAMP NATL</p>	 <p>TE Part # 1863006-1 12P UMNL CAP HSG</p>	 <p>TE Part # 2178621-1 UMNL 12 WAY CAP HOUSING</p>



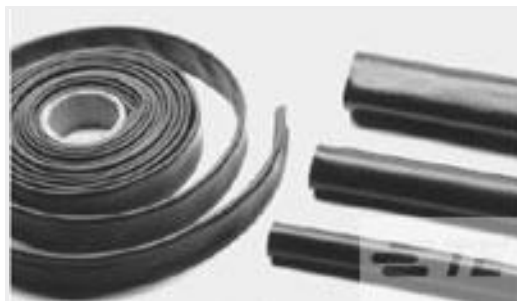
Also in the Series | **Universal MATE-N-LOK**



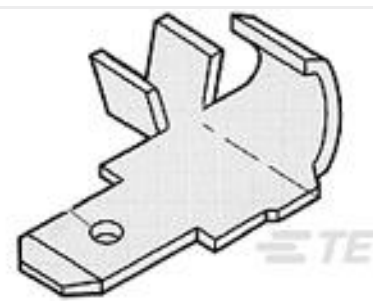


Wire-to-Board Headers & Receptacles  
(285)

## Customers Also Bought



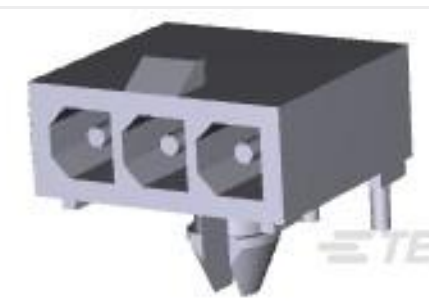
TE Part #CJ5220-000  
BSTS-11X6IN



TE Part #42770-2  
250 FASTON FLAG TAB 18-14 AWG  
TPBR



TE Part #643326-4  
13P MTA156 HDR ASSY W/O#4



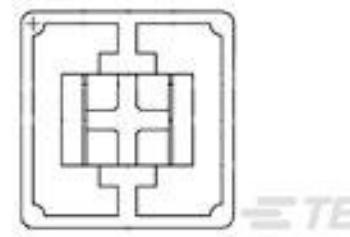
TE Part #1-770967-0  
03P MINI UMNL R/A HDR ASSY SN



TE Part #794920-1  
05P UMNL SOCKER HDR ASSY POL



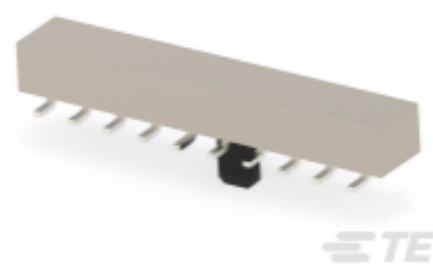
TE Part #6-1393211-6  
T92P7D12-24



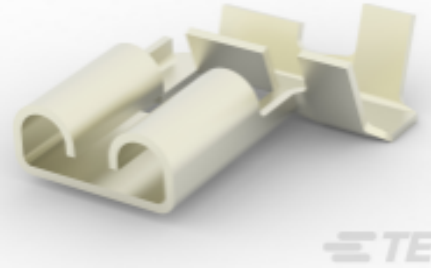
TE Part #1571384-1  
CAP, GREEN



TE Part #1776489-4  
4P TB HDR, unshrouded, 5mm, blue



TE Part #1977145-4  
Slide Switch 4PDT actuator under, SMT  
T&R



TE Part #2286377-1  
250 FASTON, FLAG, REC., 22-18 AWG,  
NPST

## Documents

### Product Drawings

[12P UMNL PIN HDR ASSY 94VO](#)

English

### CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_641974-1\\_S.2d\\_dxf.zip](#)



English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_641974-1\\_S.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_641974-1\\_S.3d\\_stp.zip](#)

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English

**Customer View Model**

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English

**Customer View Model**

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English

**3D PDF**

English

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

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**Datasheets & Catalog Pages**

[SOFT\\_SHELL\\_PIN\\_SOCKET\\_CONNECTORS\\_STANDARD\\_DENSITY](#)

English

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**Product Specifications**

[Application Specification](#)

English

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**Instruction Sheets**

[Instruction Sheet \(U.S.\)](#)

English

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**Agency Approvals**

[UL](#)

English