

1-770967-0 ✓ ACTIVE

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

TE Internal #: 1-770967-0

PCB Mount Header, Right Angle, Wire-to-Board, 3 Position, 4.14 mm [.162 in] Centerline, Fully Shrouded, Tin, Mini-Universal MATE-N-LOK

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Right Angle**

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

## Features

### Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

### Product Type Features

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

### Configuration Features

Number of Columns	3
Number of Loaded Positions	3
Number of Power Positions	3



Connector Contact Load Condition	Fully Loaded
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PCB Mount Orientation	Right Angle
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Number of Positions	3
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Number of Rows	1
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### Electrical Characteristics

Operating Voltage	600 VDC
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### Body Features

Primary Product Color	White
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### Contact Features

Contact Underplating Material	Nickel
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Mating Pin Diameter	1 mm [.039 in]
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Contact Underplating Material Thickness	1.27 $\mu$ m [50 $\mu$ in]
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PCB Contact Termination Area Plating Material Finish	Matte
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Contact Size	1mm
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Contact Mating Area Plating Material Thickness	3.81 – 8.89 $\mu$ m [150 – 350 $\mu$ in]
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PCB Contact Termination Area Plating Material Thickness	3.81 – 8.89 $\mu$ m [150 – 350 $\mu$ in]
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Contact Shape & Form	Round
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Contact Layout	Inline
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Contact Base Material	Brass
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PCB Contact Termination Area Plating Material	Tin
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Contact Mating Area Plating Material Finish	Matte
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Contact Mating Area Plating Material	Tin
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Contact Type	Pin
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Contact Current Rating (Max)	9.5 A
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### Termination Features

Termination Post & Tail Diameter	1 mm [.039 in]
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Termination Post & Tail Length	3.69 mm [.145 in]
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Termination Method to PCB	Through Hole - Solder
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### Mechanical Attachment

Panel Mount Feature	Without
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Mating Retention Type	Locking Tab
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Mating Retention	With
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Mating Alignment Type	Chamfered Edges
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PCB Mount Retention Type	Boardlock
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PCB Mount Retention	With
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PCB Mount Alignment	Without
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Connector Mounting Type	Board Mount
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Mating Alignment	With
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### Housing Features

Mating Entry Location	Side
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Housing Material	Nylon
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Centerline (Pitch)	4.14 mm [.162 in]
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### Dimensions

Connector Width	12.7 mm [.5 in]
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PCB Thickness (Recommended)	1.57 mm [.062 in]
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Connector Height	7.77 mm [.306 in]
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Connector Length	15.29 mm [.602 in]
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### Usage Conditions

Operating Temperature (Max)	105 °C [221 °F]
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Operating Temperature Range	-55 – 105 °C [-67 – 221 °F]
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### Operation/Application

Circuit Application	Power
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### Industry Standards

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

Packaging Quantity	200
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Packaging Method	Bag
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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	Compliant
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: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Wave solder capable to 265°C

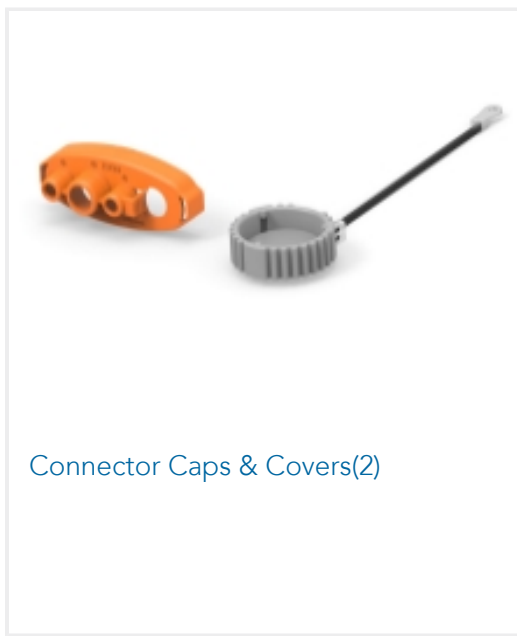
Product Compliance Disclaimer

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>

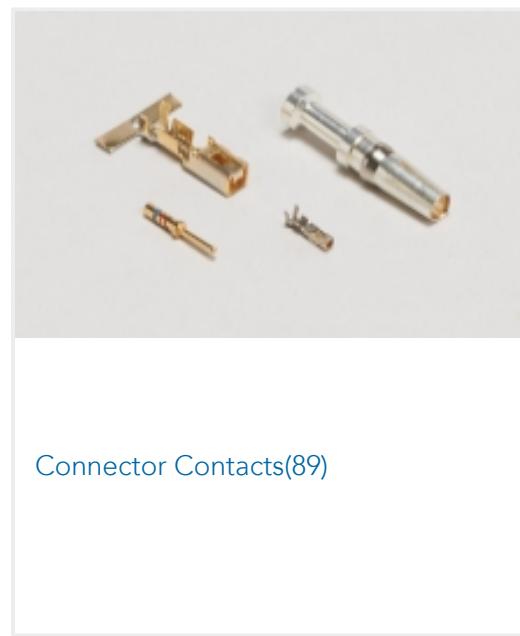
### Compatible Parts



Also in the Series | [Mini-Universal MATE-N-LOK](#)



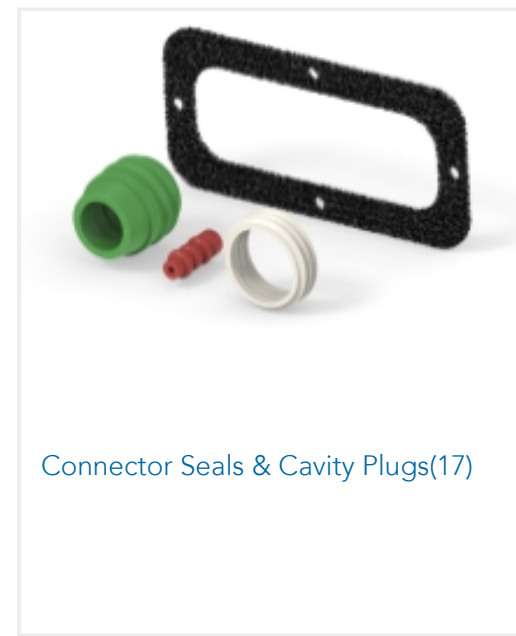
Connector Caps & Covers(2)



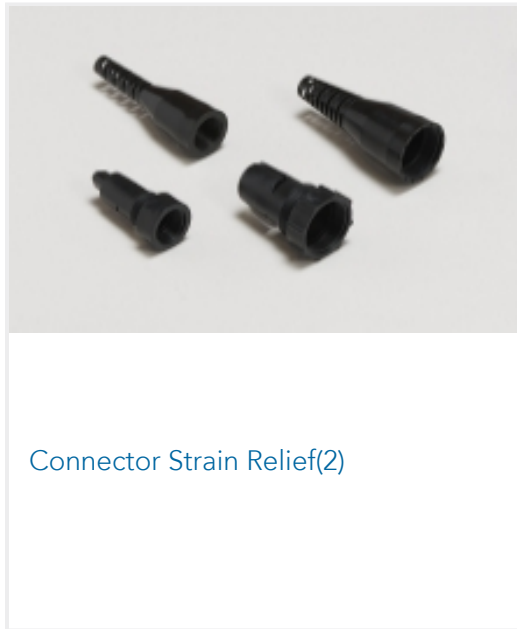
Connector Contacts(89)



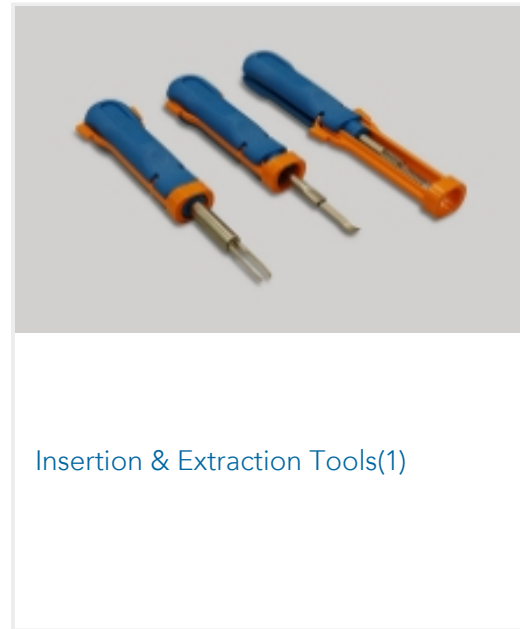
Connector Hardware(4)



Connector Seals & Cavity Plugs(17)



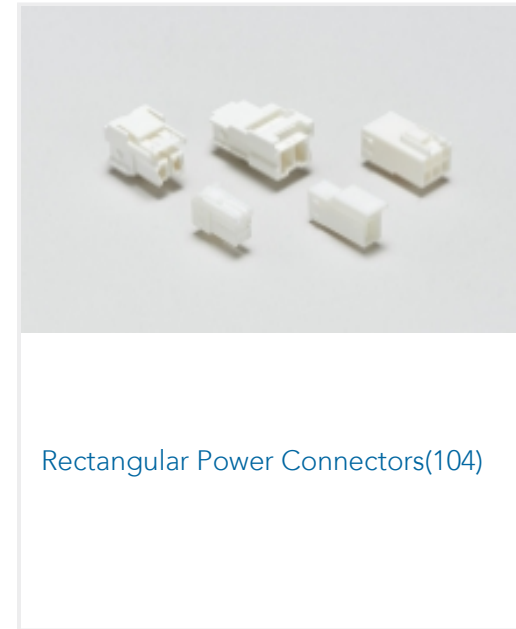
Connector Strain Relief(2)



Insertion & Extraction Tools(1)



PCB Headers & Receptacles(93)



Rectangular Power Connectors(104)

## Customers Also Bought



TE Part #205734-7  
09 RCPT SP/MS STD



TE Part #208101-2  
LATCH BLOCK SZ 1-4 (BULK PAK)



TE Part #643425-1  
09P UMNL HDR ASSY POL



TE Part #2154640-2  
Herm Blade & Recept assy w/latch & posts



TE Part #1513504-1  
100930LF MOLDED STAMPED ANTENNA



TE Part #5353831-8  
.6FHP07H,100,S,GIG,08/Sn,TR,NSYes



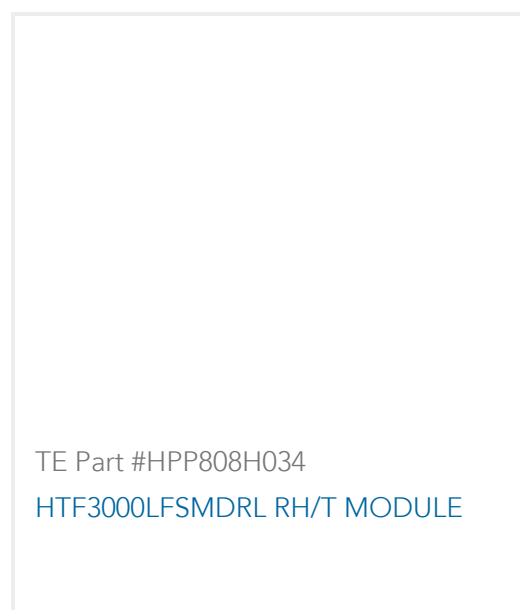
TE Part #5353190-8  
.6FHR04H,100,S,GIG,08/Sn,TR,NSYes



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



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



TE Part #HPP808H034  
HTF3000LFSMDRL RH/T MODULE

## Documents



### Product Drawings

#### 03P MINI UMNL R/A HDR ASSY SN

English

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### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-770967-0\\_D.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-770967-0\\_D.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-770967-0\\_D.3d\\_stp.zip](#)

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\_AND\_SOCKET\_CONNECTORS\_CATALOG

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

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