

643749-1 ✓ ACTIVE

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

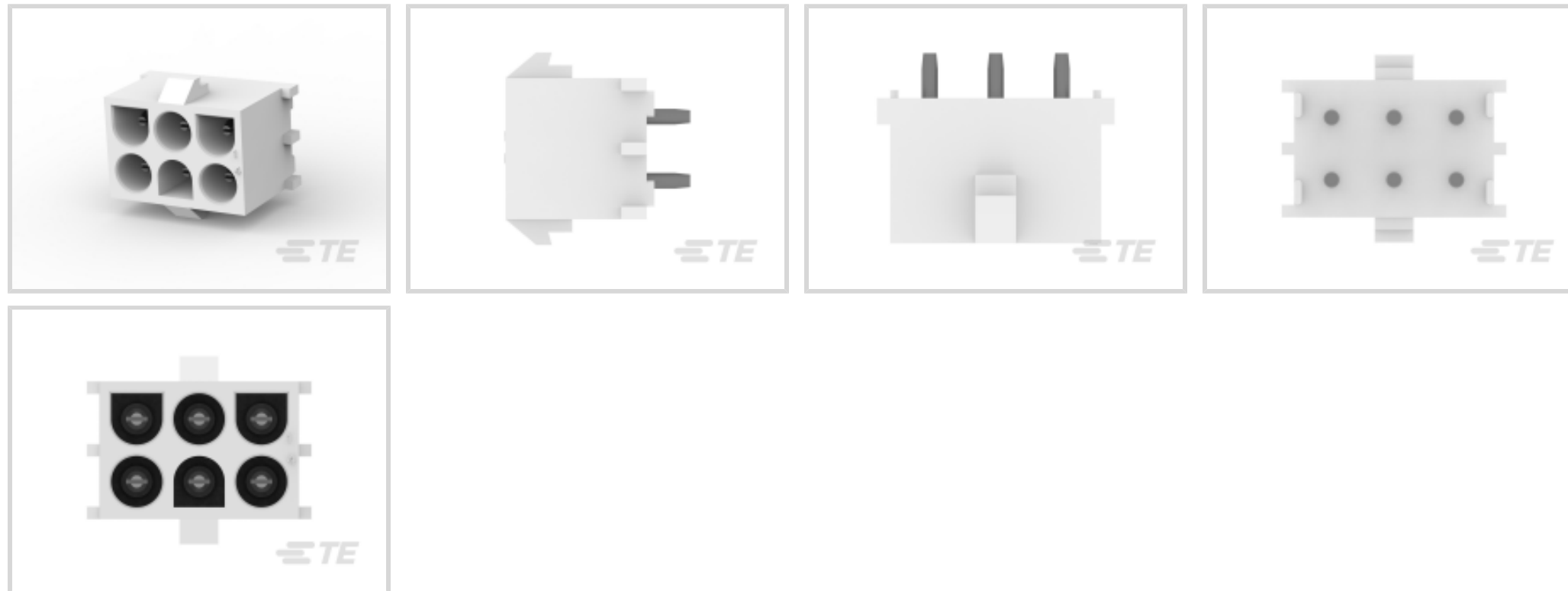
TE Internal #: 643749-1

PCB Mount Header, Vertical, Wire-to-Board, 6 Position, 6.35 mm [.25 in] Centerline, Fully Shrouded, Pre-Tin, Universal MATE-N-LOK

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



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

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

Number of Positions: **6**

Number of Rows: **2**

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

## Features

### 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 Power Positions	6
Number of Columns	3
Number of Loaded Positions	6
Connector Contact Load Condition	Fully Loaded
Number of Positions	6
Number of Rows	2
PCB Mount Orientation	Vertical

### Electrical Characteristics

Operating Voltage	600 VAC
-------------------	---------

### Body Features

Primary Product Color	Natural
-----------------------	---------

### Contact Features

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

### Termination Features

Termination Post & Tail Diameter	1.57 mm[.062 in]
Termination Post & Tail Length	5.09 mm[.2 in]
Termination Method to PCB	Through Hole - Solder

### Mechanical Attachment

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

### Housing Features



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

### Dimensions

Connector Length	20.32 mm [.8 in]
Connector Height	13.97 mm [.55 in]
Connector Width	13.97 mm [.55 in]
PCB Thickness (Recommended)	3.18 mm [.125 in]
Profile Height from PCB	14.73 mm [.58 in]
Row-to-Row Spacing	6.35 mm [.25 in]

### Usage Conditions

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

### Operation/Application

Circuit Application	Power
---------------------	-------

### Industry Standards

UL Rating	Recognized
Glow Wire Rating	Standard Part - Not Glow Wire
Compatible With Agency/Standards Products	UL, VDE
Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-2

### Packaging Features

Packaging Quantity	100
Packaging Method	Bag

### 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



TE Part # 350431-4  
06P UMNL PINHDR ASSY V2 NAT LF



TE Part # 350732-1  
06P UMNL PIN HDR ASSY 94VO



TE Part # 350586-1  
09P UMNL PIN HDR ASSY V2 NATL



TE Part # 350585-1  
06P UMNL PIN HDR ASSY V2 NATL



TE Part # 641969-1  
06P UMNL PIN HDR ASSY V2 NATL



TE Part # 350432-1  
09P UMNL PIN HDR ASSY NATL



TE Part # 350434-1  
15P UMNL PIN HDR ASSY NATL



TE Part # 1586860-1  
06P UMNL CAP HSG, GW




TE Part # 350431-1  
06P UMNL PIN HDR ASSY V2 NAT



TE Part # 926682-3  
06P UNIV.M-N-L.HSG.



TE Part # 643423-1  
06P UMNL HDR ASSY POL



TE Part # 794536-1  
06P UMNL CAP HSG 150C BLK



TE Part # 1586090-1  
06P UMNL PINHDR NO DRAIN HOLE



TE Part # 2029367-1  
06P UMNL-II TW-N-LK-CAP FRONT



TE Part # 350588-1  
15P UMNL PIN HDR ASSY V2 NATL



TE Part # 926682-1  
UNIVERSAL M-N-L CAP 6 POS



TE Part # 1586887-1  
06P UMNL CAP HSG, P/M, GW



TE Part # 8-794536-1  
06P UMNL CAP HSG 150C BLK, SPE




TE Part # 926682-4  
6P UN-MNL AUFN-GEH



TE Part # 1586090-3  
06P UMNL PINHDR W/O DR HOLE LF


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



Circular Power Connectors(2)




Connector Caps & Covers(34)




Connector Contacts(209)




Connector Hardware(12)



Connector Seals & Cavity Plugs(27)



Connector Strain Relief(7)



Insertion & Extraction Tools(4)



PCB Headers & Receptacles(285)





Rectangular Connector Housings(1)



Rectangular Power Connectors(379)



Standard Circular Connectors(1)

## Customers Also Bought



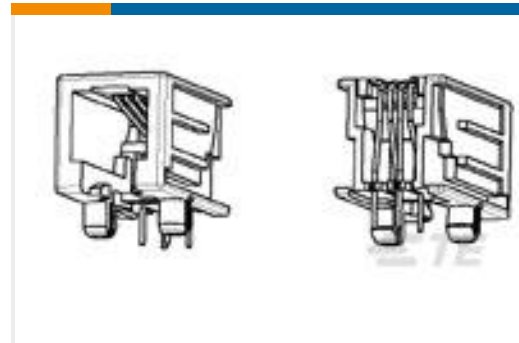
TE Part #2-1415898-5  
RTS3LF12



TE Part #1-794079-0  
24P MINI UMNL HDR W/O DH SN LF



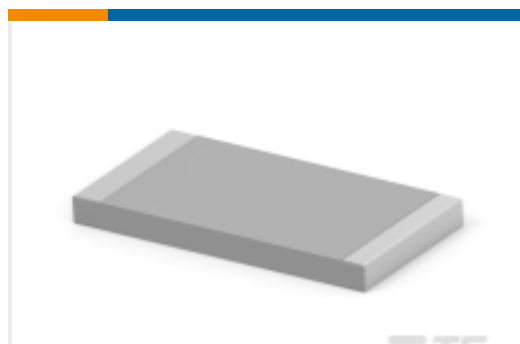
TE Part #1586076-1  
02P UMNL PIN HDR W/O DRNS V2



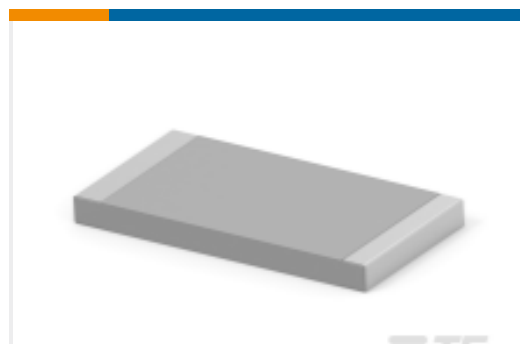
TE Part #1-1705950-2  
Modular Jack SE, 6/4, Gold flash



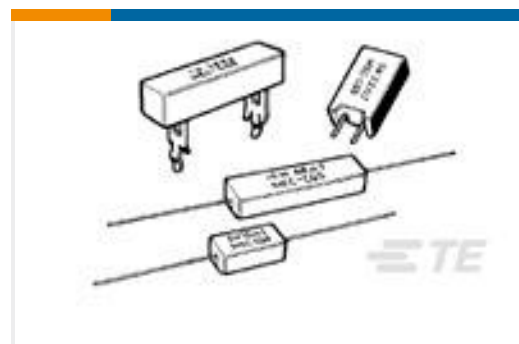
TE Part #1586162-1  
03P UMNL PIN HDR 94VO NDH



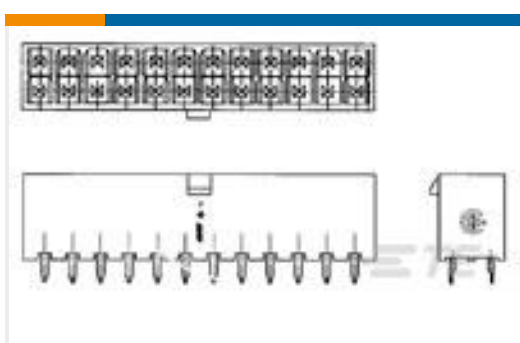
TE Part #2-2176331-7  
CRGP 2512 1K5 1%



TE Part #4-2176331-5  
CRGP 2512 47K 1%



TE Part #4-1623795-7  
SQP5 R47 5% WIRE



TE Part #1-1586038-6  
16P VRT HDR VAL-U-LOK V0



TE Part #1586163-1  
04P UMML PIN HDR 94VO NDH

## Documents

### Product Drawings

[06P UMNL HDR ASSY W/O DRNS](#)

English

### CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_643749-1\\_D.2d\\_dxf.zip](#)



English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_643749-1\\_D.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_643749-1\\_D.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_643749-1\\_E.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_643749-1\\_E.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_643749-1\\_E.2d\\_dxf.zip](#)

English

**3D PDF**

English

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

---

### Datasheets & Catalog Pages

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

English

---

### Product Specifications

[Application Specification](#)

English

---

### Agency Approvals

[UL](#)

English