



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

TE Internal #: 350584-4  
PCB Mount Header, Vertical, Wire-to-Board, 4 Position, 6.35 mm [.25 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, 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: **4**  
Number of Rows: **1**  
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        | 4            |
| Number of Columns                | 4            |
| Number of Loaded Positions       | 4            |
| Connector Contact Load Condition | Fully Loaded |
| Number of Positions              | 4            |
| Number of Rows                   | 1            |



|                       |          |
|-----------------------|----------|
| 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 µm[150 – 200 µin] |
| Contact Layout                                          | Inline                        |
| Mating Pin Diameter                                     | 2.2 mm[.087 in]               |
| Contact Underplating Material Thickness                 | 1.27 – 1.79 µm[50 – 70 µin]   |
| Contact Mating Area Plating Material Thickness          | .76 – .91 µm[30 – 36 µin]     |
| PCB Contact Termination Area Plating Material Finish    | Matte                         |
| Contact Shape & Form                                    | Round                         |
| Contact Underplating Material                           | Nickel                        |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Base Material                                   | Phosphor Bronze               |
| Contact Mating Area Plating Material                    | Gold                          |
| 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            | 26.67 mm[1.05 in] |
| Connector Height            | 13.97 mm[.55 in]  |
| Connector Width             | 7.62 mm[.3 in]    |
| PCB Thickness (Recommended) | 3.18 mm[.125 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 |
|---------------------|-------|

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 # 641776-1  
04P UMNL STR/REL

TE Part # 641776-2  
04P UMNL STR/REL

TE Part # 1-350589-0  
STR/REL CLAMP NATL

TE Part # 350811-1  
STR/REL CLAMP

TE Part # 641775-1  
04P UMNL STR/REL & INSRT NATL

TE Part # 1586845-1  
04P UMNL CAP HSG NATL, GW

TE Part # 641968-3  
04P UMNL PIN HDR ASSY POL 94VO

TE Part # 794273-1  
04P UMNL INTERFACE SEAL





TE Part # 794274-1  
04P UMNL WIRE SEAL



TE Part # 1-480702-0  
04P UMNL PLUG HSG NATL



TE Part # 926305-6  
UNML4WAY CAP



TE Part # 794707-1  
04P UMNL CAP HSG,BLACK



TE Part # 641775-2  
04P UMNL STR/REL NATL



TE Part # 350848-4  
04P UMNL PLUG TEST ASSY 94VO



TE Part # 641968-4  
4P UMNL PIN HDR POL VO, AU, LF



TE Part # 926305-1  
4P UNIV M-N-L CAP

Also in the Series | Universal MATE-N-LOK



Circular Power Connectors(2)



Connector Caps & Covers(34)



Connector Contacts(209)



Connector Hardware(12)



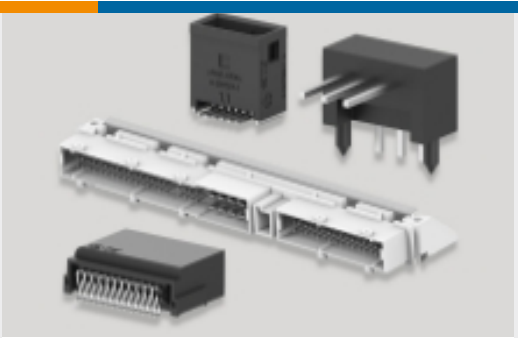
Connector Seals & Cavity Plugs(27)



Connector Strain Relief(7)



Insertion & Extraction Tools(4)



PCB Headers & Receptacles(285)



Rectangular Connector Housings(1)



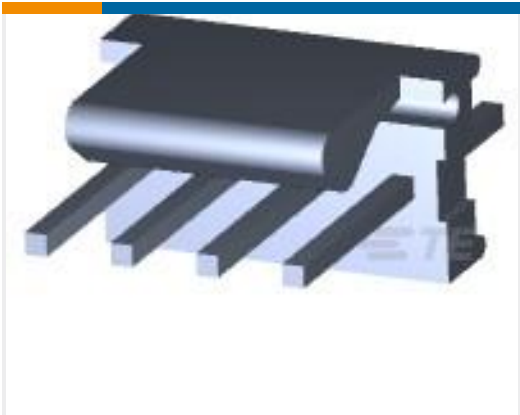
Rectangular Power Connectors(370)



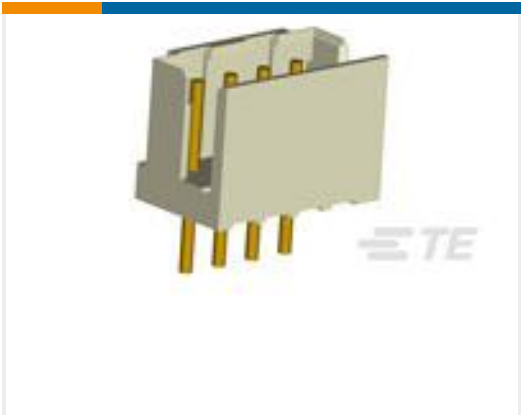
Standard Circular Connectors(1)

Customers Also Bought





TE Part #3-641215-4  
04P MTA100 HDR ASSY FL/ST 30AU



TE Part #1-292132-0  
CT P/HDR BOX V 10P NAT



TE Part #5745191-1  
50 RCPT SP/MS STD



TE Part #4-1437559-6  
MTM106DPC=SW TOG SHORT LEVER P



TE Part #350587-1  
12P UMNL PIN HDR ASSY V2 NATL



TE Part #1-794070-1  
20P MINI UMNL HDR W/DH AU LF



TE Part #282856-3  
TERMI-BLOK PCB MOUNT 3P



TE Part #1-1437649-5  
4PCV-12-006=4PCV ASSEMBLY

Documents

Product Drawings

04P UMNL PIN HDR ASSY V2 LF

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_350584-4\_AA.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_350584-4\_AA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_350584-4\_AA.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_350584-4\_V.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_350584-4\_V.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_350584-4\_V.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](#)  
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Agency Approvals  
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