

770969-2 ✓ ACTIVE

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

TE Internal #: 770969-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 6 Position, 4.14 mm [.162 in] Centerline, Printed Circuit Board, Mini-Universal MATE-N-LOK

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **6**

Centerline (Pitch): **4.14 mm [.162 in]**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Header Type | Fully Shrouded |
| Rectangular Power Connector Type | Header |
| Connector & Housing Type | Plug |
| Connector System | Wire-to-Board |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

| | |
|----------------------------|-------------|
| Number of Positions | 6 |
| PCB Mount Orientation | Right Angle |
| Number of Power Positions | 6 |
| Number of Signal Positions | 0 |
| Number of Rows | 2 |

Electrical Characteristics

| | |
|-------------------|---------|
| Operating Voltage | 600 VDC |
|-------------------|---------|



Contact Features

| | |
|------------------------------------------------|----------------------------------------|
| Multiple Contact Types | Without |
| Contact Mating Area Plating Material | Gold |
| Contact Current Rating (Max) | 9.5 A |
| Contact Retention Within Housing | Without |
| Contact Type | Pin |
| PCB Contact Termination Area Plating Material | Tin-Lead |
| Contact Mating Area Plating Material Thickness | .76 μm [30 μin] |

Termination Features

| | |
|---------------------------------------------|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---------------------------------------------|-----------------------|

Mechanical Attachment

| | |
|--------------------------|-----------------|
| Strain Relief | Without |
| Mating Alignment Type | Chamfered Edges |
| Mating Retention | With |
| Mating Alignment | With |
| PCB Mount Alignment | Without |
| Panel Mount Feature | Without |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Boardlock |
| Mating Retention Type | Locking Tab |
| Connector Mounting Type | Board Mount |

Housing Features

| | |
|--------------------|------------------|
| Centerline (Pitch) | 4.14 mm[.162 in] |
| Housing Color | White |
| Housing Material | Nylon |

Dimensions

| | |
|--------------------|------------------|
| Connector Height | 11.86 mm |
| Product Width | 12.7 mm |
| Product Length | 14 mm |
| Row-to-Row Spacing | 4.14 mm[.163 in] |

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |
|-----------------------------|----------------------------|



Operation/Application

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

Industry Standards

| | |
|------------------------|-------------------------------|
| CSA Rating | Certified, LR 7189 |
| UL Rating | Recognized |
| Agency/Standard | CSA, UL |
| Approved Standards | UL E28476 |
| UL Flammability Rating | UL 94V-0 |
| Glow Wire Rating | Standard Part - Not Glow Wire |

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 | Not Compliant |
| EU ELV Directive 2000/53/EC | Compliant with Exemptions |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) SVHC > Threshold: Pb (13% 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 < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| Solder Process Capability | Not lead free process capable |

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 # 794772-6
06P MINI UMNL SEAL, DIE CUT



TE Part # 794190-1
06P MINI UMNL2 PLUG HSG UL94V0




TE Part # 172168-1
6 CIR UNIV M-N-L PLUG




TE Part # 794895-1
6 CIR MINI UMNL RND WIRE HOLES


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




Connector Backshells(2)




Connector Contacts(8)



Connector Seals & Cavity Plugs(17)



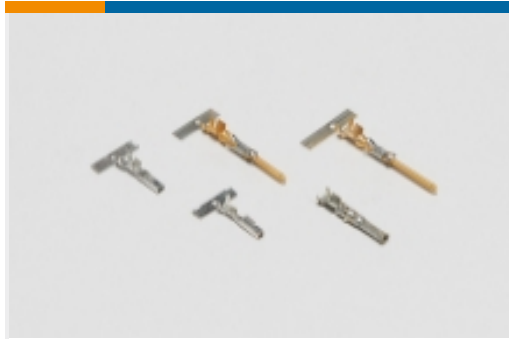
Connector Strain Relief(2)



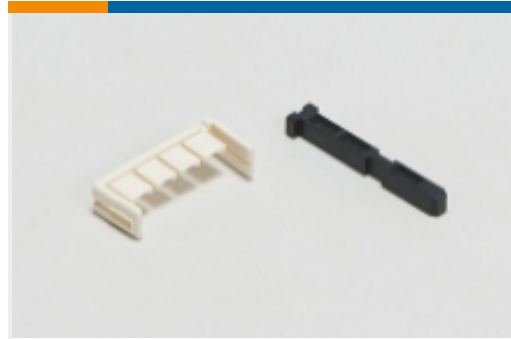
Insertion & Extraction Tools(1)




PCB Headers & Receptacles(1)



Power Contacts(84)



Rectangular Connector Keying Plugs(2)



Rectangular Connector Locking(2)



Rectangular Power Connectors(244)

Customers Also Bought



TE Part #1-179276-2
DYNAMIC 3200 HDR ASSY 2P H



TE Part #2311586-5
AMPL REC, HD22, R/A, 15P,
THREADED, BLUE



TE Part #T4111402021-000
M12,MALE,STRAIGHT,B CODE,2P,
PG9,GOLD



TE Part #770166-1
02P MINI-UMNL ASSY VO SNNI*



TE Part #1-794407-0
MINI UMNL SOK 20-16 AWG AU LF



TE Part #3-794637-8
08P MICRO MNL ASSY,VRT,SMT LF



TE Part #1586134-1
05P UMNL PIN HDR V2 NATL NDH



TE Part #770966-1
02P MINI UMNL R/A HDR ASSY SN



TE Part #794895-1
6 CIR MINI UMNL RND WIRE HOLES



TE Part #4-794637-0
10P MICRO MNL ASSY,VRT,SMT LF

Documents

Product Drawings

[06P MINI UMNL R/A HDR ASSY AU](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_770969-2_E.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_770969-2_E.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_770969-2_E.3d_stp.zip](#)

English

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Datasheets & Catalog Pages



[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

[Product Specifications](#)

[Application Specification](#)

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[Product Environmental Compliance](#)

[TE Material Declaration](#)

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

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[Agency Approvals](#)

[Agency Approval Document](#)

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