

1586968-1 ✓ ACTIVE

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

TE Internal #: 1586968-1

Universal MATE-N-LOK, Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 5 Position, 6.35mm [.25in] Centerline, Printed Circuit Board

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **5**

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

Features

Product Type Features

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

Configuration Features

| | |
|---------------------------|----------|
| Number of Positions | 5 |
| PCB Mount Orientation | Vertical |
| Number of Power Positions | 5 |
| Number of Rows | 1 |

Electrical Characteristics

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

Contact Features

| | |
|----------------|--------|
| Contact Layout | Inline |
|----------------|--------|



| | |
|--|---|
| Multiple Contact Types | Without |
| Contact Current Rating (Max) | 12 A |
| Contact Retention Within Housing | Without |
| Contact Type | Pin |
| PCB Contact Termination Area Plating Material | Pre-Tin |
| Contact Mating Area Plating Material | Pre-Tin |
| Contact Mating Area Plating Material Thickness | 3.81 – 5.08 μm [150 – 200 μin] |

Termination Features

| | |
|---|-----------------------|
| Termination Post & Tail Length | 3.94 mm[.155 in] |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

| | |
|-------------------------|---------------|
| Strain Relief | Without |
| Mating Alignment Type | Polarization |
| Mating Alignment | With |
| PCB Mount Alignment | Without |
| Panel Mount Feature | Without |
| PCB Mount Retention | Without |
| Connector Mounting Type | Board Mount |
| Mating Retention | With |
| Mating Retention Type | Positive Lock |

Housing Features

| | |
|--------------------|-----------------|
| Centerline (Pitch) | 6.35 mm[.25 in] |
| Housing Color | Natural |
| Housing Material | Nylon |

Dimensions

| | |
|-----------------------------|-----------------|
| PCB Thickness (Recommended) | .06 mm[1.57 in] |
|-----------------------------|-----------------|

Usage Conditions

| | |
|-----------------------------|--|
| Operating Temperature Range | -40 – 105 $^{\circ}\text{C}$ [-40 – 221 $^{\circ}\text{F}$] |
|-----------------------------|--|

Operation/Application

| | |
|------------------------------|---------|
| Assembly Integration Feature | Without |
| Circuit Application | Power |

Industry Standards



| | |
|------------------------|---------------------------|
| UL Flammability Rating | UL 94V-2 |
| Glow Wire Rating | GWT 750°C (Without Flame) |
| Agency/Standard Number | E28476 |
| Agency/Standard | UL |
| UL Rating | Recognized |
| VDE Tested | Yes |

Packaging Features

| | |
|--------------------|-----|
| Packaging Method | Bag |
| Packaging Quantity | 100 |

Other

| | |
|--------------|-----------------------------------|
| For Use With | Universal MATE-N-LOK Plug Housing |
|--------------|-----------------------------------|

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: JAN 2021 (211) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| 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 # 643405-1
05P UMNL PIN HDR ASSY POL NATL



TE Part # 1-350949-0
05P UMNL HDR ASSY R/A V2 NATL



TE Part # 350429-1
03P UMNL PIN HDR ASSY NATL



TE Part # 1-480764-0
05P UMNL CAP HSG NATL



TE Part # 1586086-1
04P UMNL PIN HDR ASSY W/O DRNS



TE Part # 1586953-1
02P UMNL PIN HDR ASSY NATL, GW



TE Part # 2029361-1
05P UMNL SOC HDR V2 NATL NDH



TE Part # 350582-1
02P UMNL PIN HDR ASSY V2 NATL



TE Part # 350583-1
03P UMNL PIN HDR ASSY V2 NATL



TE Part # 1586958-1
03P UMNL PIN HDR ASSY NATL, GW



TE Part # 1586879-1
09P UMNL SKT HDR ASSY, GW



TE Part # 1586869-1
03P UMNL HDR ASSY, GW



TE Part # 1586872-1
04P UMNL HDR ASSY, GW



TE Part # 1586963-1
04P UMNL PIN HDR ASSY, GW



TE Part # 1586211-1
06P UMNL SOK HDR 94V2 NDH



TE Part # 1586866-1
02P UMNL HDR ASSY V2, GW



TE Part # 1586955-1
02P UMNL PIN HDR ASSY POL, GW



TE Part # 1586979-1
06P UMNL PIN HDR ASSY V2, GW



TE Part # 770111-1
05P UMNL PIN HDR ASSY V2 NATL



TE Part # 794283-1
05P UMNL PIN HDR ASSY 94VO

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



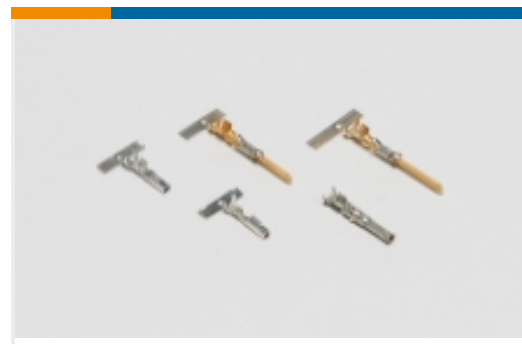
Circular Power Connectors(2)



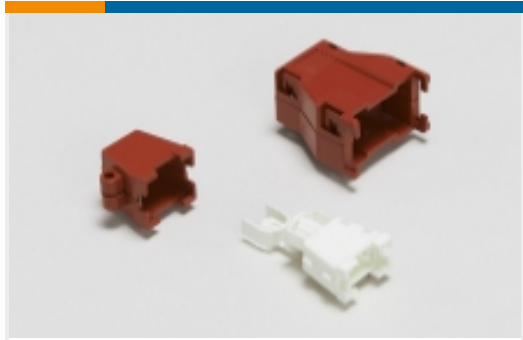
Connector Contacts(11)



Insertion & Extraction Tools(4)



Power Contacts(207)



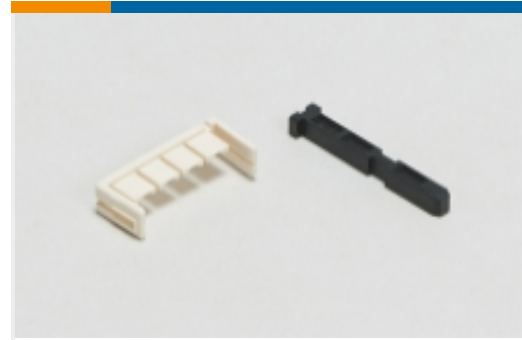
Rectangular Boots & Strain Relief(35)



Rectangular Connector Adapters(7)



Rectangular Connector Housings(2)



Rectangular Connector Keying Plugs(3)



Rectangular Connector Locking(4)



Rectangular Connector Seals(26)

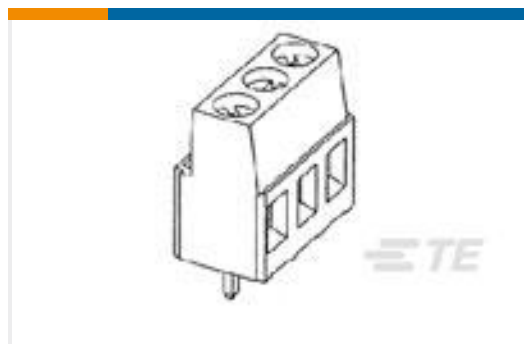


Rectangular Power Connectors(726)

Customers Also Bought



TE Part #1-6609001-3
CORCOM EEB SERIES IEC FILTERED
INLETS



TE Part #1-282856-4
14P TERMI-BLOK PCB MOUNT



TE Part #1-1393225-9
RY611012



TE Part #146763-6
04 MODII VRT SR CE 100



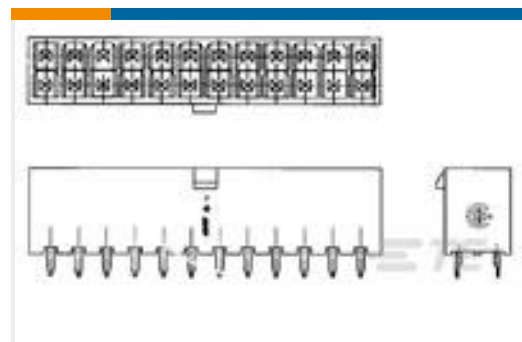
TE Part #1-1879671-9
H4 205K 0.1% 25PPM



TE Part #1-320551-8
PIDG RING TONGUE TERMINALS



TE Part #YDTS24Z09-35SNC001
D38999: Jam Nut Receptacle, Series III



TE Part #1-1586768-8
18P VERT HDR VAL-U-LOK GW



Documents

Product Drawings

[05P UMNL PIN HDR ASSY V2, GW](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1586968-1_A_c-1586968-1-a.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1586968-1_A_c-1586968-1-a.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1586968-1_A_c-1586968-1-a.3d_stp.zip](#)

English

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English