

350423-1 ✓ ACTIVE

MATE-N-LOK | Commercial MATE-N-LOK

TE Internal #: 350423-1

Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 3 Position, 5.08 mm [.2 in] Centerline, Printed Circuit Board, Commercial MATE-N-LOK

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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: **3**

Centerline (Pitch): **5.08 mm [.2 in]**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Header Type | Fully Shrouded |
| 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 | 3 |
| PCB Mount Orientation | Vertical |
| Number of Power Positions | 3 |
| Number of Rows | 1 |

Electrical Characteristics

| | |
|-------------------|---------|
| Operating Voltage | 250 VAC |
|-------------------|---------|

Contact Features



| | |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 2.54 μm [100 μin] |
| Contact Layout | Inline |
| Contact Underplating Material Thickness | 1.27 μm [50 μin] |
| Contact Mating Area Plating Material | Tin |
| Contact Current Rating (Max) | 10 A, 12 A |
| Contact Retention Within Housing | Without |
| Contact Type | Pin |
| PCB Contact Termination 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 | 3.05 mm[.12 in] |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

| | |
|-------------------------|--------------|
| Mating Alignment Type | Polarization |
| Mating Retention | With |
| Mating Alignment | With |
| Mating Retention Type | Detent Lock |
| Connector Mounting Type | Board Mount |

Housing Features

| | |
|--------------------|----------------|
| Centerline (Pitch) | 5.08 mm[.2 in] |
| Housing Color | Natural |
| Housing Material | Nylon |

Dimensions

| | |
|-----------------------------|-------------------|
| Connector Height | 8.38 mm[.33 in] |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |
| Product Width | 9.53 mm[.375 in] |
| Product Length | 18.16 mm[.715 in] |

Usage Conditions

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|-----------------------------|--|
| Operating Temperature Range | -55 – 105 $^{\circ}\text{C}$ [-67 – 221 $^{\circ}\text{F}$] |
|-----------------------------|--|

Operation/Application

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

Industry Standards



| | |
|------------------------|-------------------------------|
| CSA Rating | LR 16455 |
| UL Rating | Certified, Recognized |
| Agency/Standard | CSA, UL, VDE |
| Approved Standards | UL E28476 |
| UL Flammability Rating | UL 94V-2 |
| 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 | 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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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

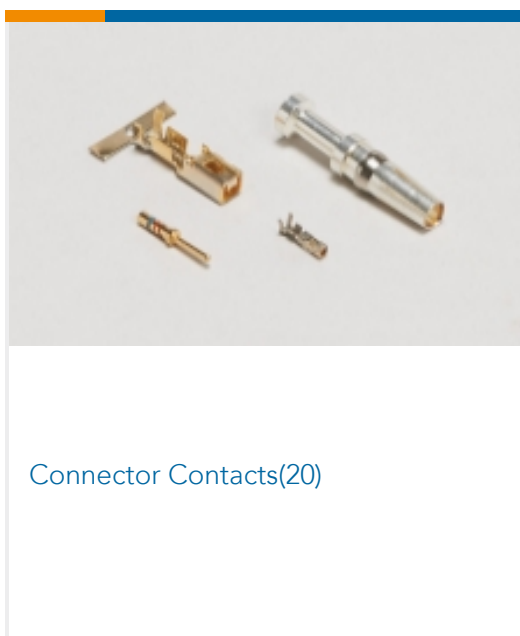


TE Part # 1-480303-0
03P CMNL PLUG HSG F/H NATL

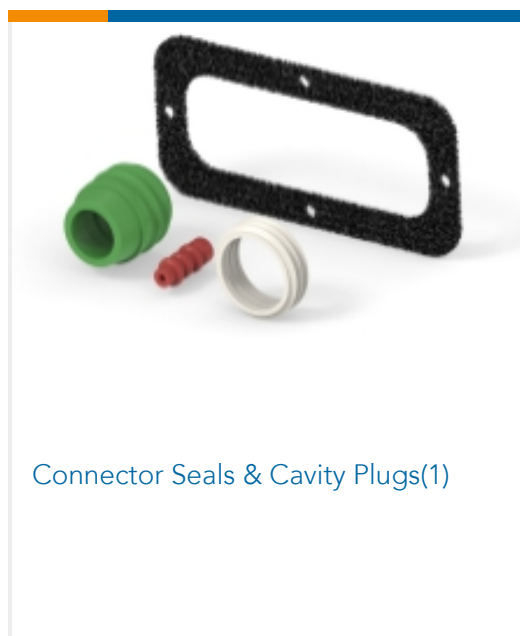


TE Part # 1-480303-9
03P CMNL PLUG HSG F/H BLK

Also in the Series | Commercial MATE-N-LOK



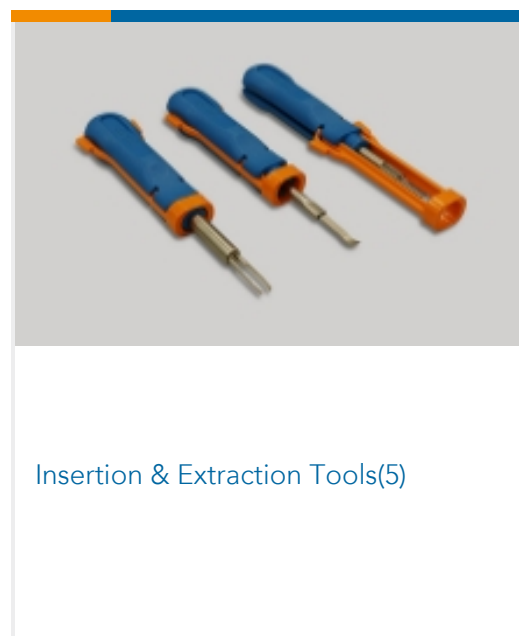
Connector Contacts(20)



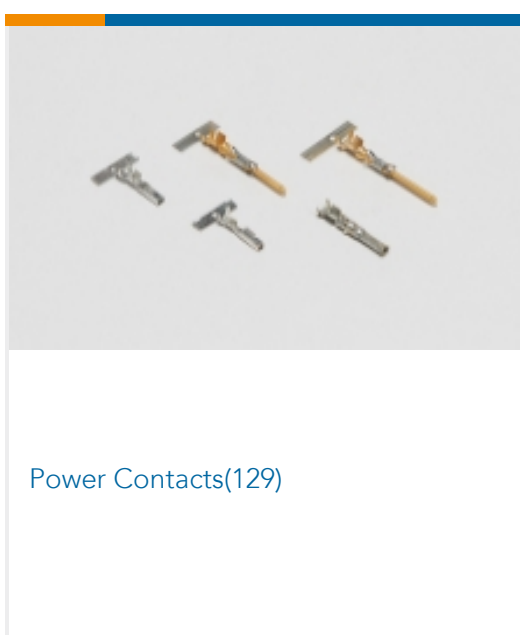
Connector Seals & Cavity Plugs(1)



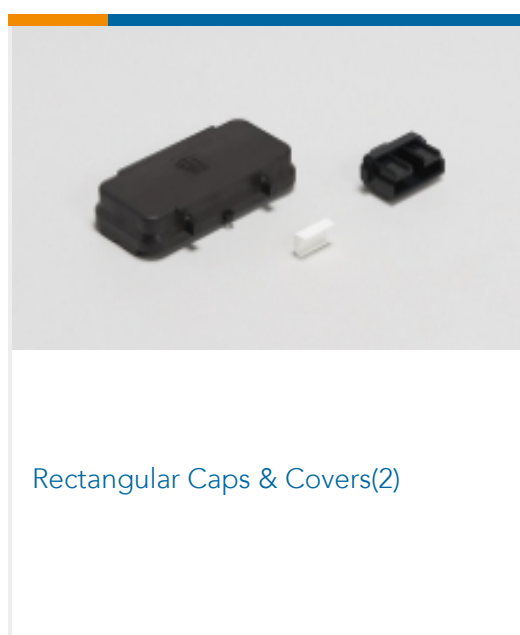
Crimp Wire Pins, Tabs & Ferrules(2)



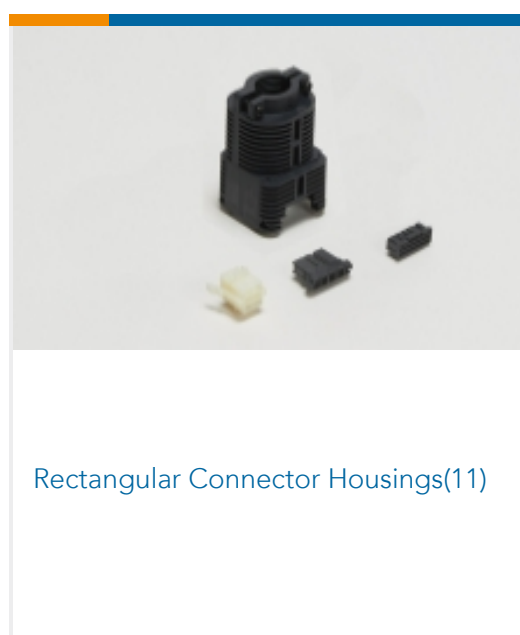
Insertion & Extraction Tools(5)



Power Contacts(129)



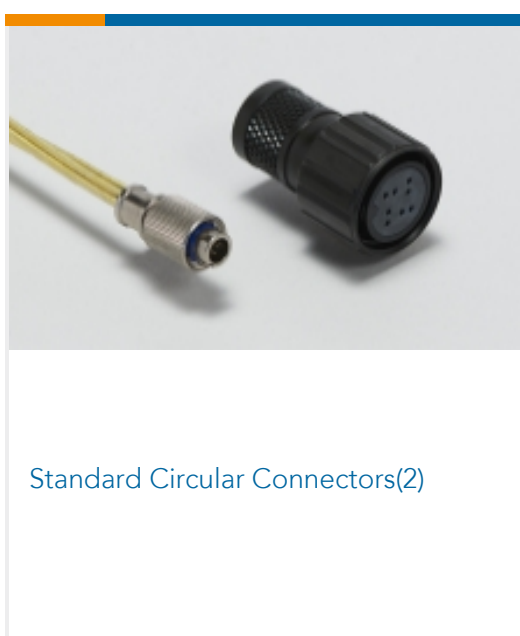
Rectangular Caps & Covers(2)



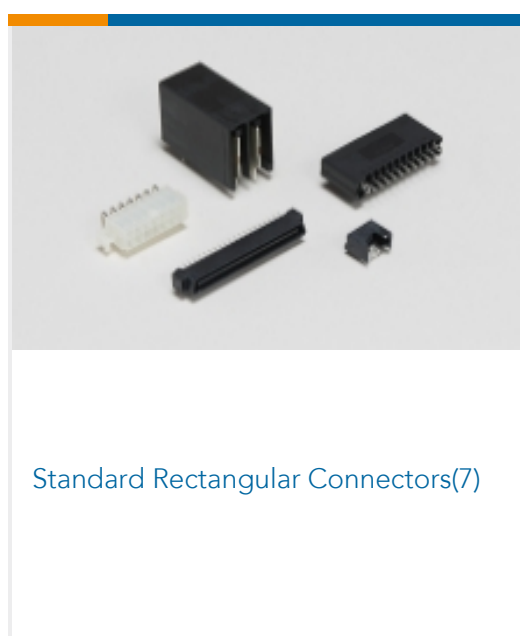
Rectangular Connector Housings(11)



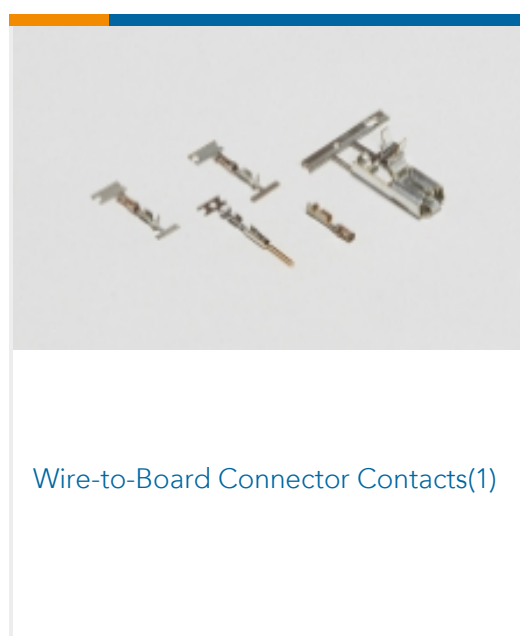
Rectangular Power Connectors(169)



Standard Circular Connectors(2)



Standard Rectangular Connectors(7)



Wire-to-Board Connector Contacts(1)

Customers Also Bought



TE Part #1241050-2
2x2P MOD II BREAK AWAY HDR,SMD,
BLISTER



TE Part #5-104363-5
06 MTE HDR SRST LATCH .100CL



TE Part #84953-9
1MM FPC HORZ.TOP CONT.ASSY 9P



TE Part #350424-1
04P CMNL HDR ASSY PC NATL



Documents

Product Drawings

[03P CMNL HDR ASSY PC NATL](#)

English

CAD Files

Customer View Model

[ENG_CVM_350423-1_N.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_350423-1_N.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_350423-1_N.2d_dxf.zip](#)

English

3D PDF

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_350423-1_U.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_350423-1_U.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_350423-1_U.3d_stp.zip](#)

English



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Datasheets & Catalog Pages

[SOFT_SHELL_PIN_SOCKET_CONNECTORS_STANDARD_DENSITY](#)

English

Product Specifications

[Application Specification](#)

English