

3-647168-3 ✓ ACTIVE



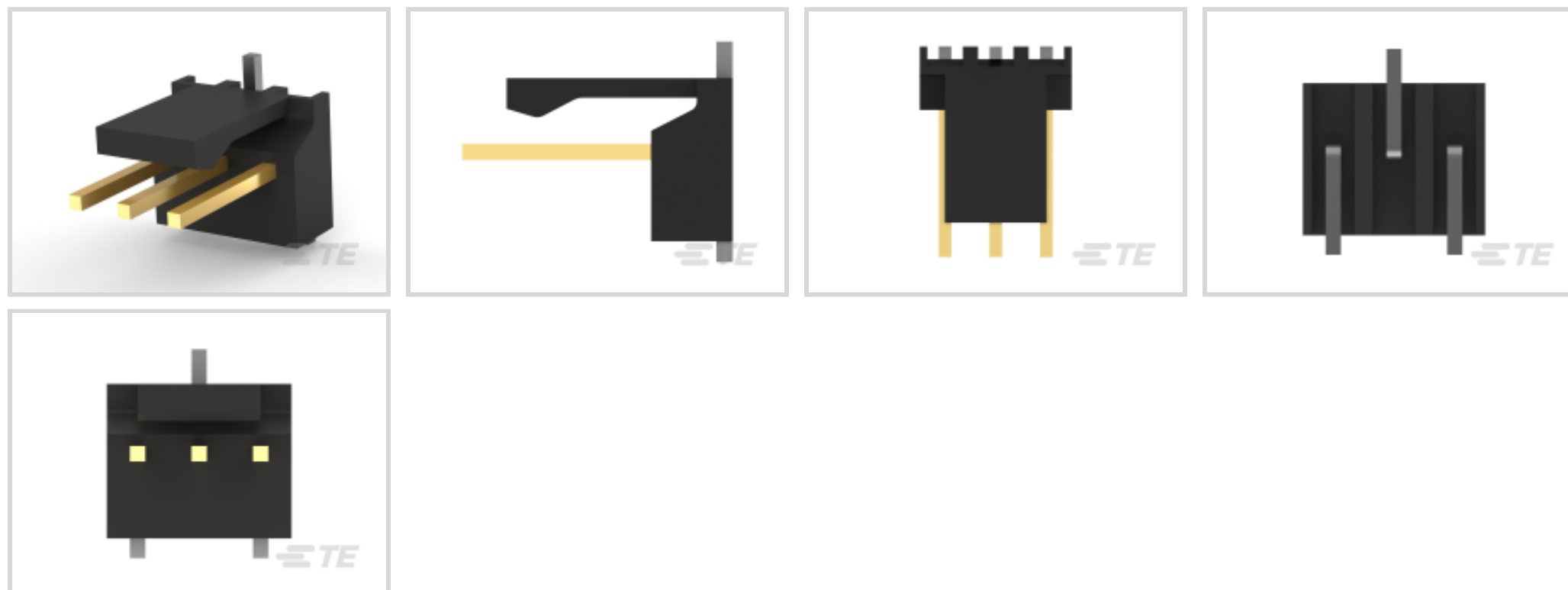
MTA 100

TE Internal #: 3-647168-3

PCB Mount Header, Vertical, Wire-to-Board, 3 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, Gold, Surface Mount, Signal, Black, MTA 100

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles > PCB Header: Nylon, Vertical, Surface Mount, MTA 100



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

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

PCB Mount Orientation: **Vertical**

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

[All PCB Header: Nylon, Vertical, Surface Mount, MTA 100 \(39\)](#)

Features

Other

EU RoHS Compliance **Compliant**

EU ELV Compliance **Compliant**

Product Type Features

PCB Connector Assembly Type **PCB Mount Header**

Connector System **Wire-to-Board**

Header Type **Partially Shrouded**

Sealable **No**

Connector & Contact Terminates To **Printed Circuit Board**

Configuration Features

PCB Mount Orientation **Vertical**

Number of Positions **3**

Number of Rows **1**



Electrical Characteristics

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

Body Features

| | |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

| | |
|---|---|
| Contact Underplating Material | Nickel |
| Contact Underplating Material Thickness | 1.27 μm [50 μin] |
| PCB Contact Termination Area Plating Material Finish | Matte |
| Contact Mating Area Plating Material Thickness | .76 μm [30 μin] |
| Mating Square Post Dimension | .64 mm[.025 in] |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 8.89 μm [150 – 350 μin] |
| Contact Shape & Form | Square |
| Contact Layout | Inline |
| Contact Mating Area Length | 7.37 mm[.29 in] |
| Contact Base Material | Copper Alloy |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material Finish | Bright |
| Contact Mating Area Plating Material | Gold |
| Contact Type | Pin |
| Contact Current Rating (Max) | 5 A |

Termination Features

| | |
|--|-----------------|
| Square Termination Post & Tail Dimension | .64 mm[.025 in] |
| Termination Method to PCB | Surface Mount |

Mechanical Attachment

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



Housing Features

| | |
|--------------------|-----------------|
| Housing Material | Nylon 4/6 |
| Centerline (Pitch) | 2.54 mm [.1 in] |

Dimensions

| | |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | .25 mm [.01 in] |
| Connector Height | 8.81 mm [.34 in] |

Usage Conditions

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

Operation/Application

| | |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

| | |
|---|-----------------------|
| Compatible With Agency/Standards Products | UL, CSA |
| Compatible With Approved Standards Products | UL E28476, CSA LR7189 |
| UL Flammability Rating | UL 94V-0 |

Packaging Features

| | |
|--------------------|-------------|
| Packaging Quantity | 500 |
| Packaging Method | Box, Carton |

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 | Reflow solder capable to 260°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 # CAT-104MTA-NYLCC
Nylon PCB Connector Covers: 2.54 mm, MTA 100



TE Part # CAT-104MTA-NGPMR
Nylon Gold Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100



TE Part # CAT-104MTA-NGPNR
Nylon Gold Plated Receptacle: 2.54 mm, no Mating Alignment




TE Part # CAT-104MTA-PLSCC
Polyester PCB Connector Covers: 2.54 mm, MTA 100




TE Part # 1375820-3
CST-100 II HOUSING 3 POS

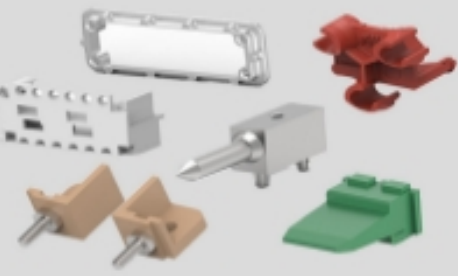
Also in the Series | MTA 100




Connector Caps & Covers(69)



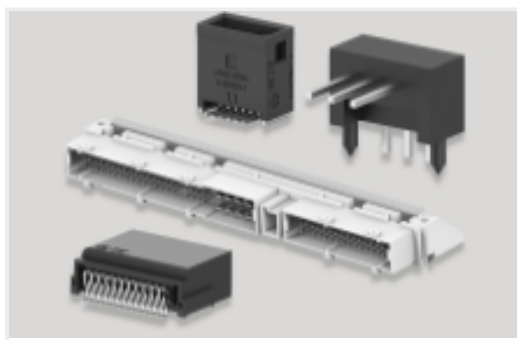
Connector Contacts(8)



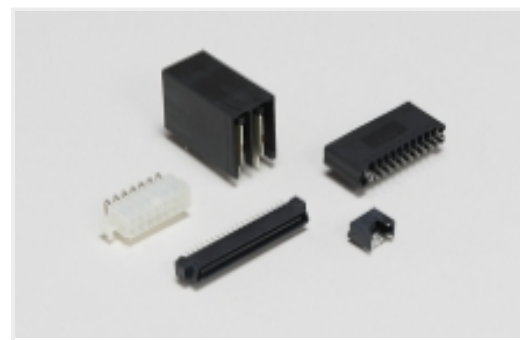
Connector Hardware(1)



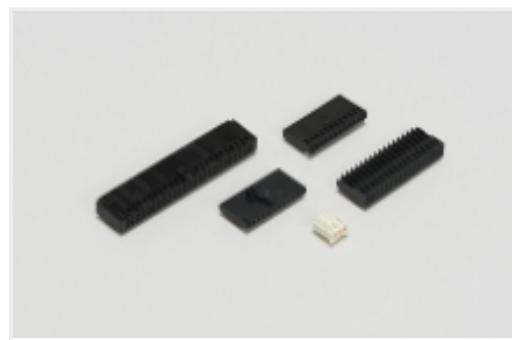
Insertion & Extraction Tools(2)



PCB Headers & Receptacles(441)



Standard Rectangular Connectors(495)



Wire-to-Board Connector Assemblies & Housings(1)

Customers Also Bought



TE Part #DT15-08PB
HDR, 8P, BLK, ST, NI/CU, B



TE Part #2-5747707-0
15 RCPT SP/FMS BRDLK



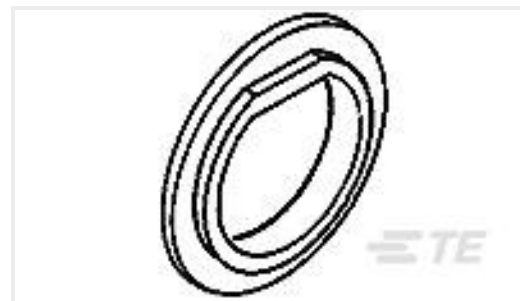
TE Part #1-770970-1
08P MINI UMNL R/A HDR ASSY LF



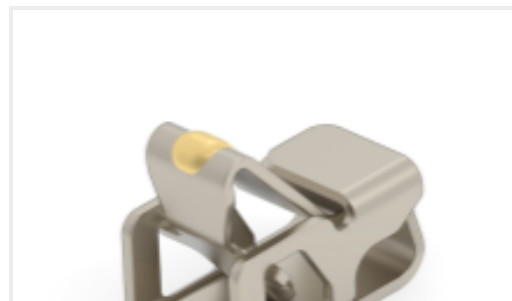
TE Part #1-770166-1
02P MINI UMNL ASSY VO SNAU LF



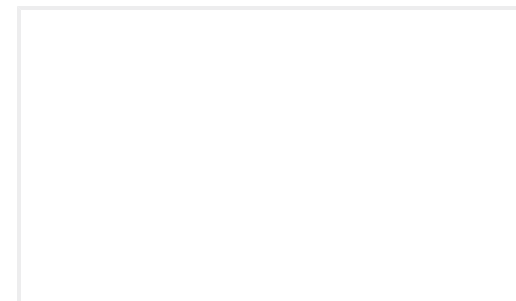
TE Part #5-532955-4
24 MODII 2PC CE RCPT ASSY, RoH



TE Part #330620
INSUL BUSHING BNC BLKHD PHEN



TE Part #2336713-2
SPRING FINGER 1.45H



TE Part #1-2394032-2
HD-20 RCPT 9P SMT UNC 4-40 THD, W/O STUD

Documents

Product Drawings

03P MTA100 HDR ASSY SM 30AU LF

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_3-647168-3_K.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-647168-3_K.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-647168-3_K.3d_stp.zip](#)

English

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Product Specifications

Product Specification

English

Agency Approvals

Agency Approval Document

English