



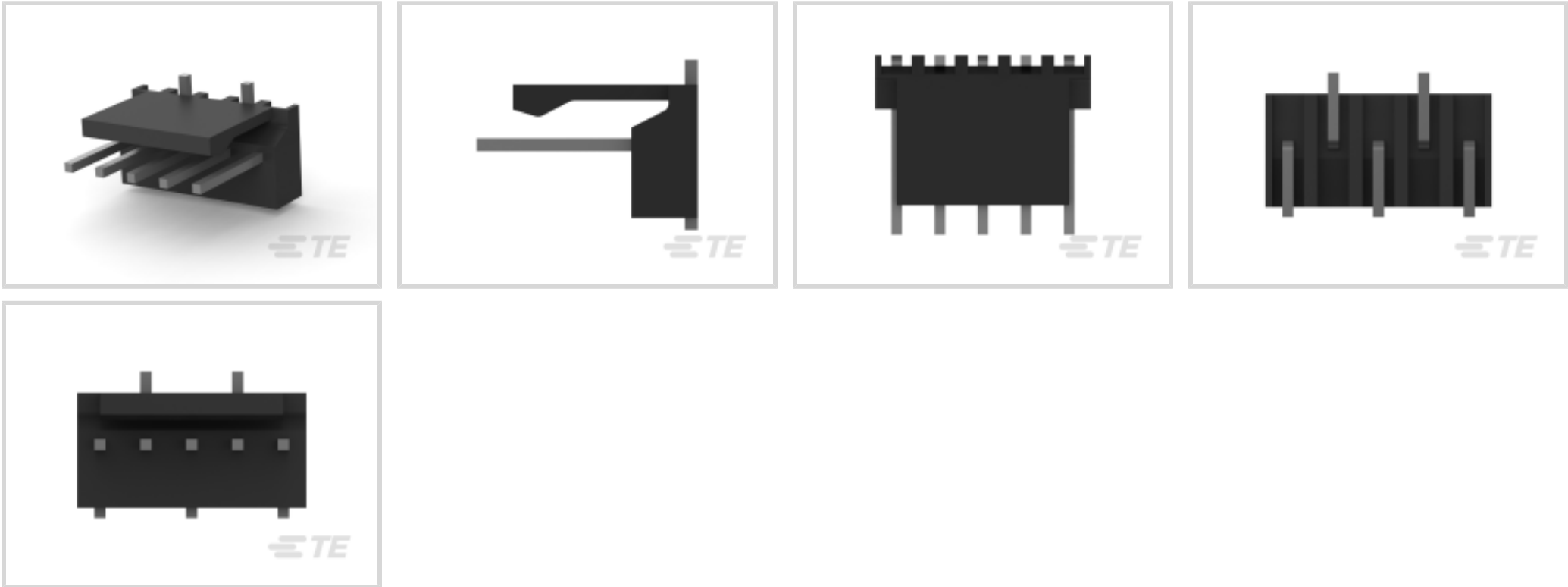
MTA 100

TE Internal #: 3-647166-5

PCB Mount Header, Vertical, Wire-to-Board, 5 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, Tin (Sn), Surface Mount, Signal, Black, MTA 100

[View on TE.com >](#)

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



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **5**

Centerline (Pitch): **2.54 mm [.1 in ]**

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

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| PCB Connector Type                | PCB Mount Header      |
| Connector System                  | Wire-to-Board         |
| Header Type                       | Partially Shrouded    |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type            | Connector Assembly    |

Configuration Features

|                       |          |
|-----------------------|----------|
| Number of Columns     | 5        |
| PCB Mount Orientation | Vertical |
| Number of Positions   | 5        |
| 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                        |
| Mating Square Post Dimension                            | .64 mm[.025 in]              |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 6.3 µm[150 – 250 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                    | Tin (Sn)                     |
| Contact Mating Area Plating Material Finish             | Matte                        |
| Contact Mating Area Plating Material Thickness          | 3.81 µm[150 µin]             |
| 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 Alignment Type   | Polarization  |
| PCB Mount Alignment     | Without       |
| Mating Retention        | With          |
| PCB Mount Retention     | Without       |
| Connector Mounting Type | Board Mount   |
| Mating Alignment        | With          |

Housing Features

|  |  |
|--|--|
|  |  |
|--|--|



|                    |                |
|--------------------|----------------|
| Centerline (Pitch) | 2.54 mm[.1 in] |
|--------------------|----------------|

|                  |           |
|------------------|-----------|
| Housing Material | Nylon 4/6 |
|------------------|-----------|

Dimensions

|                 |                 |
|-----------------|-----------------|
| Connector Width | 6.35 mm[.25 in] |
|-----------------|-----------------|

|                             |                |
|-----------------------------|----------------|
| PCB Thickness (Recommended) | .25 mm[.01 in] |
|-----------------------------|----------------|

|                  |                  |
|------------------|------------------|
| Connector Height | 10.66 mm[.42 in] |
|------------------|------------------|

|                  |                |
|------------------|----------------|
| Connector Length | 12.7 mm[.5 in] |
|------------------|----------------|

Usage Conditions

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

Operation/Application

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

Industry Standards

|                                           |         |
|-------------------------------------------|---------|
| Compatible With Agency/Standards Products | CSA, UL |
|-------------------------------------------|---------|

|                                             |                       |
|---------------------------------------------|-----------------------|
| Compatible With Approved Standards Products | CSA LR7189, UL E28476 |
|---------------------------------------------|-----------------------|

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 500 |
|--------------------|-----|

|                  |         |
|------------------|---------|
| Packaging Method | Package |
|------------------|---------|

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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
|-----------------------------------------------|---------------------------------------------------------|

|                                        |                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>Does not contain REACH SVHC |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Halogen Content | Low Halogen - Br, Cl, F < 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-PLSCC  
Polyester PCB Connector Covers: 2.54 mm, MTA 100



TE Part # CAT-104MTA-NYLCC  
Nylon PCB Connector Covers: 2.54 mm, MTA 100



TE Part # 1375820-5  
CST-100 II HOUSING 5 POS

Also in the Series | MTA 100



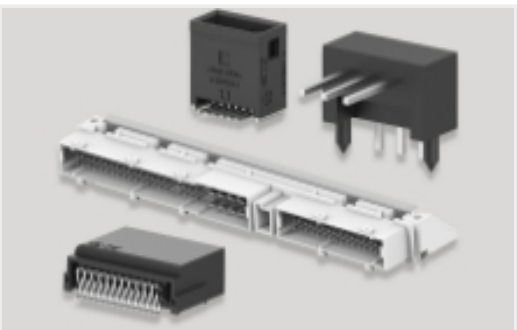
Connector Caps & Covers(69)



Connector Contacts(8)



Connector Hardware(1)



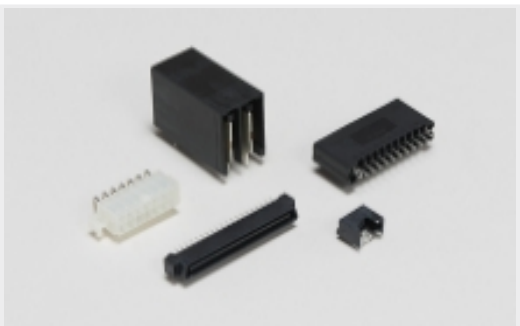
PCB Headers & Receptacles(441)



Rectangular Connector Housings(1)



Rectangular Power Connectors(1)



Standard Rectangular Connectors(496)



Wire-to-Board Connector Assemblies & Housings(457)

Customers Also Bought



TE Part #CONMMCX013-T  
MMCX Jack 50 Ohm PCB Edge Mount

TE Part #350792-1  
04P UMML PIN HDR ASSY 94VO

TE Part #3-647166-8  
8P MTA100 HDR ASSY,SM,FL,LF

TE Part #1-770875-1  
06P MINI UMNL HDR ASSY AU LF

TE Part #1217151-1  
187 FASTON,PIGGYBACK REC.,18-14 AWG,TPBR

TE Part #1734723-1  
RJ11,6P6C,SINGLE,DIP,W/O LED 6u"

TE Part #2132415-8  
EP2.5 Shrouded HDR ASSY 8P VERT w /o boss

TE Part #2176055-1  
RLP73V 2B R010 1% 1K RL

TE Part #5747832-4  
09 MSFL PLUG RA 590 (IN,FM,BL)

TE Part #133421-E  
MJ CS \*\* 8 8 \*\*\*\*\* 30 \* J 3 133942

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_3-647166-5\_M\_c-3-647166-5-m.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-647166-5\_M\_c-3-647166-5-m.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-647166-5\_M\_c-3-647166-5-m.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications

Application Specification

English

Agency Approvals

3-647166-5

PCB Mount Header, Vertical, Wire-to-Board, 5 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, Tin (Sn), Surface Mount, Signal, Black, MTA 100



Agency Approval Document

English