

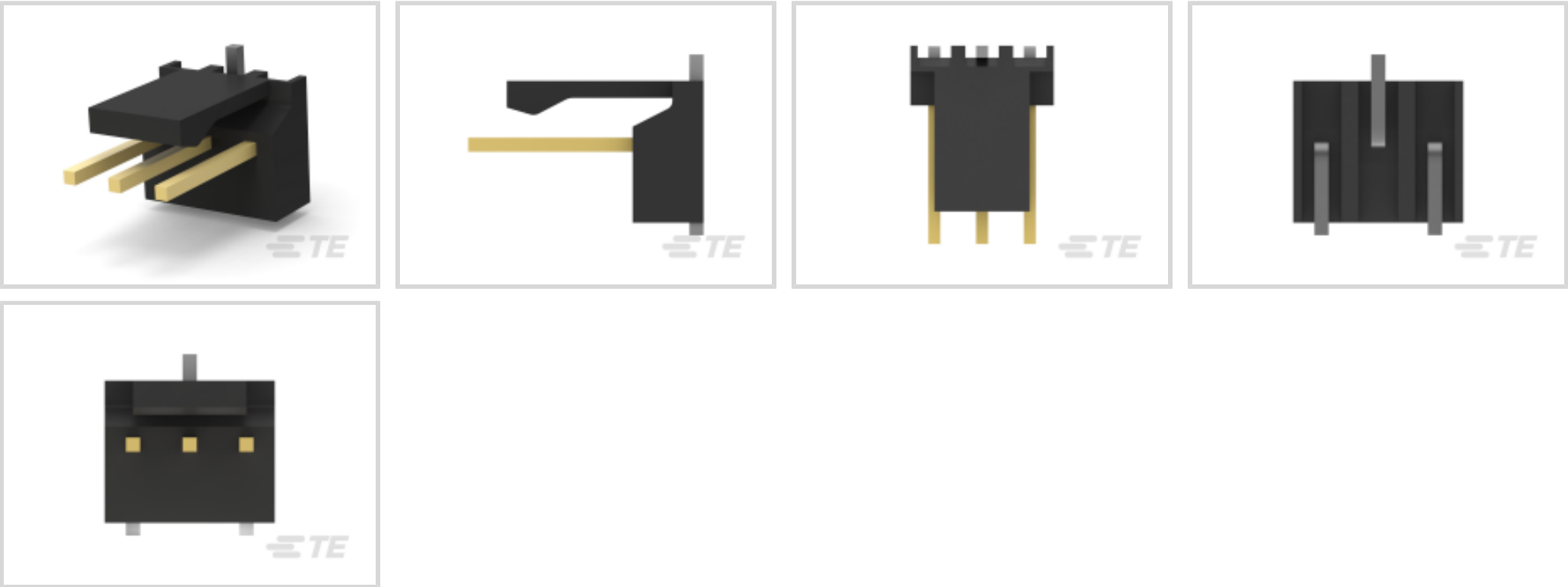


MTA 100

TE Internal #: 3-647167-3  
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



Connector System: **Wire-to-Board**  
Number of Positions: **3**  
Number of Rows: **1**  
Centerline (Pitch): **2.54 mm [.1 in ]**  
PCB Mount Orientation: **Vertical**

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

Features

Product Type Features

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

Configuration Features

|                       |          |
|-----------------------|----------|
| Number of Positions   | 3        |
| Number of Rows        | 1        |
| PCB Mount Orientation | Vertical |

Electrical Characteristics

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

Body Features

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



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

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Mating Area Length                              | 7.37 mm[.29 in]               |
| Mating Square Post Dimension                            | .64 mm[.025 in]               |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 8.89 µm[150 – 350 µin] |
| Contact Layout                                          | Inline                        |
| Contact Underplating Material Thickness                 | 1.27 µm[50 µin]               |
| Contact Mating Area Plating Material Thickness          | .38 µm[15 µin]                |
| PCB Contact Termination Area Plating Material Finish    | Matte                         |
| Contact Shape & Form                                    | Square                        |
| Contact Mating Area Plating Material Finish             | Bright                        |
| Contact Underplating Material                           | Nickel                        |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Base Material                                   | Copper Alloy                  |
| 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

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

Housing Features

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



Dimensions

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

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)<br>Candidate List Declared Against: JUNE 2024 (241)<br>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

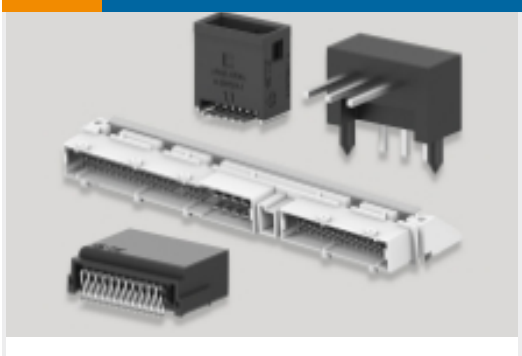


as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

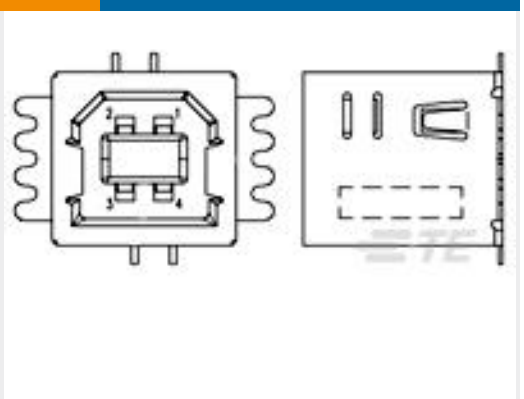
Compatible Parts

|                                                                                                                                                                      |                                                                                                                                                                                     |                                                                                                                                                                            |                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # CAT-104MTA-NYLCC<br/>Nylon PCB Connector Covers: 2.54 mm, MTA 100</p> |  <p>TE Part # CAT-104MTA-NGPNR<br/>Nylon Gold Plated Receptacle: 2.54 mm, no Mating Alignment</p> |  <p>TE Part # CAT-104MTA-PLSCC<br/>Polyester PCB Connector Covers: 2.54 mm, MTA 100</p> |  <p>TE Part # 3-644040-3<br/>03P MTA100 CONN ASSY POL LF</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

Also in the Series | MTA 100

|                                                                                                                               |                                                                                                                                  |                                                                                                                                                   |                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|  <p>Connector Caps &amp; Covers(69)</p>    |  <p>Connector Contacts(8)</p>                |  <p>Connector Hardware(1)</p>                                |  <p>Insertion &amp; Extraction Tools(2)</p> |
|  <p>PCB Headers &amp; Receptacles(441)</p> |  <p>Standard Rectangular Connectors(495)</p> |  <p>Wire-to-Board Connector Assemblies &amp; Housings(1)</p> |                                                                                                                                  |

Customers Also Bought

|                                                                                                                                                                     |                                                                                                                                                   |                                                                                                                                                               |                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part #1-640550-5<br/>Polyester PCB Connector Covers: 2.54 mm, MTA 100</p> |  <p>TE Part #5-104362-2<br/>03 MTE HDR SRST LATCH W/HLDWN</p> |  <p>TE Part #1734517-1<br/>STD USB TYPE B, VERTICAL, SMT, GRD FINGER</p> |  <p>TE Part #2337237-3<br/>TACT MINI GW 5.2X5.2X1.5 160GF</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|



Documents

Product Drawings

03P MTA100 HDR ASSY SM 15AU LF

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_3-647167-3\_K.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-647167-3\_K.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-647167-3\_K.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Specifications

Product Specification

English

Agency Approvals

Agency Approval Document

English