

3-644748-1 ✓ ACTIVE



## MTA 100

TE Internal #: 3-644748-1

PCB Mount Header, Vertical, Wire-to-Board, 3 Position, 2.54 mm [.1 in] Centerline, Breakaway, Tin, Through Hole - Solder, Signal, Natural, MTA 100

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles > Polyester Vertical PCB Header: 2.54mm, Breakaway, 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 Polyester Vertical PCB Header: 2.54mm, Breakaway, MTA 100 \(116\)](#)

## Features

### Product Type Features

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

### Configuration Features

|                            |          |
|----------------------------|----------|
| Number of Columns          | 3        |
| Number of Loaded Positions | 2        |
| Number of Positions        | 3        |
| Number of Rows             | 1        |
| PCB Mount Orientation      | Vertical |

### Electrical Characteristics



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

### Body Features

|                   |        |
|-------------------|--------|
| Connector Profile | Narrow |
|-------------------|--------|

|                       |         |
|-----------------------|---------|
| Primary Product Color | Natural |
|-----------------------|---------|

### Contact Features

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

|                            |                  |
|----------------------------|------------------|
| Contact Mating Area Length | 7.49 mm[.295 in] |
|----------------------------|------------------|

|                              |                 |
|------------------------------|-----------------|
| Mating Square Post Dimension | .64 mm[.025 in] |
|------------------------------|-----------------|

|   |   |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 8.89 $\mu$ m[150 – 350 $\mu$ in] |
|---|---|

|   |                           |
|---|---------------------------|
| Contact Underplating Material Thickness | 1.27 $\mu$ m[50 $\mu$ in] |
|---|---------------------------|

|  |                            |
|--|----------------------------|
| Contact Mating Area Plating Material Thickness | 3.81 $\mu$ m[150 $\mu$ in] |
|--|----------------------------|

|  |       |
|--|-------|
| PCB Contact Termination Area Plating Material Finish | Matte |
|--|-------|

|                      |        |
|----------------------|--------|
| Contact Shape & Form | Square |
|----------------------|--------|

|   |       |
|---|-------|
| Contact Mating Area Plating Material Finish | Matte |
|---|-------|

|                               |        |
|-------------------------------|--------|
| Contact Underplating Material | Nickel |
|-------------------------------|--------|

|   |     |
|---|-----|
| PCB Contact Termination Area Plating Material | Tin |
|---|-----|

|                       |              |
|-----------------------|--------------|
| Contact Base Material | Copper Alloy |
|-----------------------|--------------|

|                                      |     |
|--------------------------------------|-----|
| Contact Mating Area Plating Material | Tin |
|--------------------------------------|-----|

|              |     |
|--------------|-----|
| Contact Type | Pin |
|--------------|-----|

|                              |     |
|------------------------------|-----|
| Contact Current Rating (Max) | 5 A |
|------------------------------|-----|

### Termination Features

|  |                 |
|--|-----------------|
| Square Termination Post & Tail Dimension | .64 mm[.025 in] |
|--|-----------------|

|                                |                  |
|--------------------------------|------------------|
| Termination Post & Tail Length | 2.79 mm[.109 in] |
|--------------------------------|------------------|

|   |                       |
|---|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---|-----------------------|

### Mechanical Attachment

|                  |         |
|------------------|---------|
| Mating Retention | Without |
|------------------|---------|

|                     |         |
|---------------------|---------|
| Panel Mount Feature | Without |
|---------------------|---------|

|                          |        |
|--------------------------|--------|
| PCB Mount Retention Type | Kinked |
|--------------------------|--------|

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

|                  |         |
|------------------|---------|
| Mating Alignment | Without |
|------------------|---------|

|                     |         |
|---------------------|---------|
| PCB Mount Alignment | Without |
|---------------------|---------|

|                     |      |
|---------------------|------|
| PCB Mount Retention | With |
|---------------------|------|



### Housing Features

|                    |                 |
|--------------------|-----------------|
| Housing Material   | Polyester - GF  |
| Centerline (Pitch) | 2.54 mm [.1 in] |

### Dimensions

|                             |                    |
|-----------------------------|--------------------|
| Connector Length            | 7.31 mm [.288 in]  |
| Connector Height            | 10.03 mm [.395 in] |
| Connector Width             | 2.34 mm [.092 in]  |
| PCB Thickness (Recommended) | 1.6 mm [.063 in]   |

### Usage Conditions

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

### Operation/Application

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

### Industry Standards

|                        |                       |
|------------------------|-----------------------|
| CSA Rating             | Certified             |
| Agency/Standard        | CSA, UL               |
| Approved Standards     | CSA LR7189, UL E28476 |
| UL Flammability Rating | UL 94V-0              |

### Packaging Features

|                    |          |
|--------------------|----------|
| Packaging Quantity | 500      |
| Packaging Type     | Bag, Box |

### Other

|                             |   |
|-----------------------------|---|
| Position Locations Omitted  | 2 |
| Number of Blocked Positions | 1 |

### 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 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224) |



Does not contain REACH SVHC

Halogen Content

Not Low Halogen - contains Br or Cl > 900 ppm.

Solder Process Capability

Wave solder capable to 240°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-NTPMR  
Nylon Tin Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100



TE Part # CAT-104MTA-NTPNR  
MTA Receptacle: Nylon, Tin Plated, 2.54 mm




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



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

## Also in the Series | MTA 100



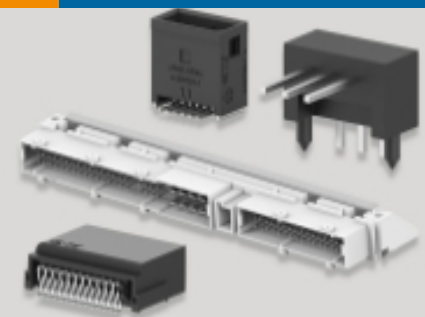
Insertion & Extraction Tools(2)



PCB Connector Covers(107)



PCB Connector Keying(1)



PCB Headers & Receptacles(1181)



Standard Rectangular Connectors  
(1718)



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



Wire-to-Board Connector Contacts(18)

## Documents

### Product Drawings

[03P MTA100 HDR RET LEG W/O#2](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_3-644748-1\\_B1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_3-644748-1\\_B1.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_3-644748-1\\_B1.2d\\_dxf.zip](#)

English

[3D PDF](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_3-644748-1\\_D.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_3-644748-1\\_D.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_3-644748-1\\_D.3d\\_stp.zip](#)

English

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### Product Specifications

[Product Specification](#)

English