

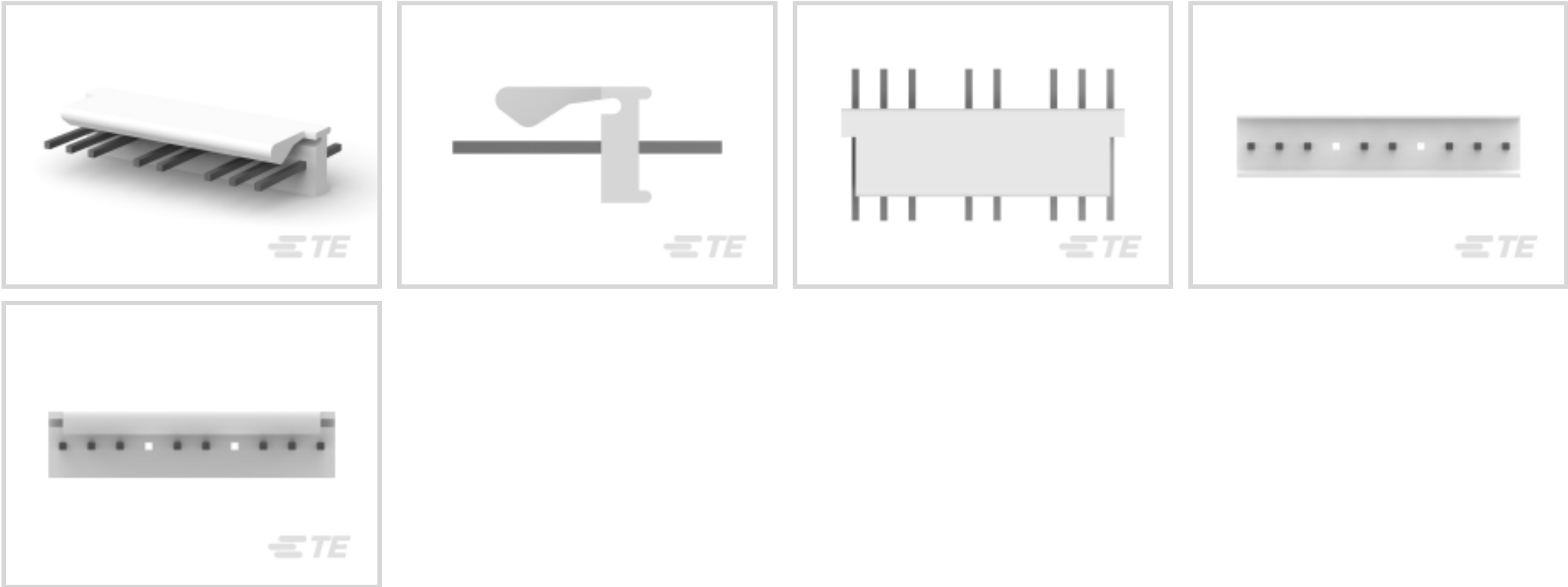


MTA 100

TE Internal #: 643879-6  
PCB Mount Header, Vertical, Wire-to-Board, 10 Position, 2.54 mm [.1 in] Centerline, Partially Shrouded, Tin, Through Hole - Solder, Signal, MTA 100

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles > PCB Header: Polyester, Vertical, Unshrouded, No Mating Alignment



Connector System: **Wire-to-Board**  
Number of Positions: **10**  
Number of Rows: **1**  
Centerline (Pitch): **2.54 mm [.1 in]**  
PCB Mount Orientation: **Vertical**

[All PCB Header: Polyester, Vertical, Unshrouded, No Mating Alignment \(134\)](#)

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 Columns          | 10       |
| Number of Loaded Positions | 8        |
| Number of Positions        | 10       |
| Number of Rows             | 1        |
| PCB Mount Orientation      | Vertical |

Electrical Characteristics

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



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

Body Features

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

Contact Features

|                                                         |                  |
|---------------------------------------------------------|------------------|
| 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 µm[150 µin] |
| Contact Layout                                          | Inline           |
| Contact Underplating Material Thickness                 | 1.27 µm[50 µin]  |
| Contact Mating Area Plating Material Thickness          | 3.81 µm[150 µin] |
| 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              | 3.56 mm[.14 in]       |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

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

Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Connector Length            | 25.4 mm[1 in]     |
| Connector Height            | 10.03 mm[.395 in] |
| Connector Width             | 5.71 mm[.225 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

|                                             |                       |
|---------------------------------------------|-----------------------|
| 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 | 1       |
| Packaging Method   | Package |

Other

|                             |      |
|-----------------------------|------|
| Position Locations Omitted  | 4, 7 |
| Number of Blocked Positions | 2    |

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: JAN 2024 (240)<br>Candidate List Declared Against: JAN 2024 (240)<br>Does not contain REACH SVHC |





|                           |                                                |
|---------------------------|------------------------------------------------|
| Halogen Content           | Not Low Halogen - contains Br or Cl > 900 ppm. |
| 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 # CAT-104MTA-NTPNR  
MTA Receptacle: Nylon, Tin Plated, 2.54 mm

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

TE Part # 1-640456-0  
10P MTA100 HDR ASSY F/L SQ STR

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

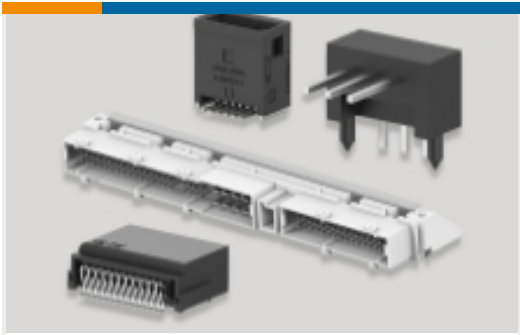
Also in the Series | MTA 100

Connector Caps & Covers(69)

Connector Contacts(8)

Connector Hardware(1)

Insertion & Extraction Tools(2)



PCB Headers & Receptacles(440)



Standard Rectangular Connectors(495)



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

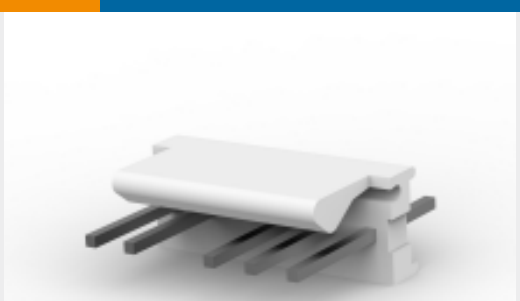
Customers Also Bought



TE Part # 640455-2  
02P MTA100 HDR ASSY SQ R/A POL



TE Part # 5499913-1  
A/L UNIV HDR 10P RA SHT LAT



TE Part # 643494-3  
06P MTA100 HDR ASSY W/O#4



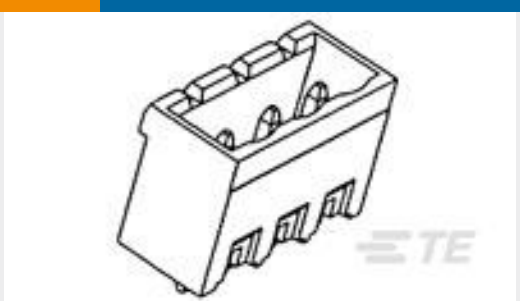
TE Part # 5745171-5  
AMPL CBL CLMP KIT SZ 1



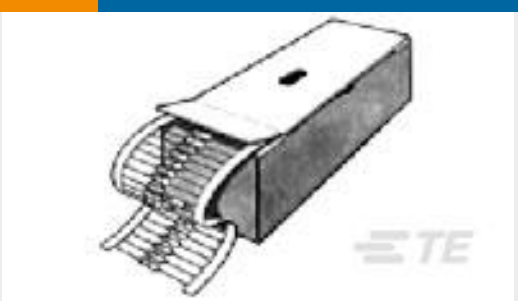
TE Part # 5555167-1  
MJ,LPF,R/A,8P/8C,KEYED,BULK P



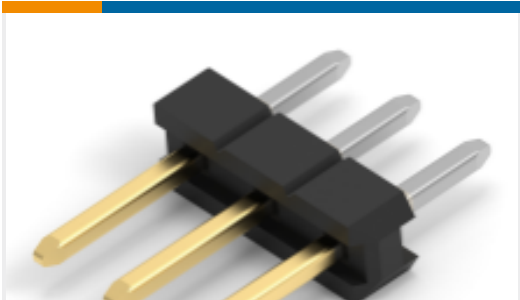
TE Part # 120591-1  
TOP LOAD BATTERY



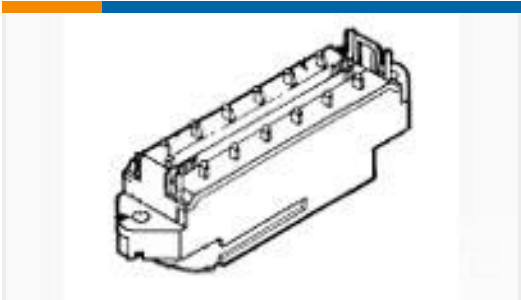
TE Part # 796636-5  
5POS 5.08MM CE VRT HDR,TRM BLK



TE Part # 2176082-1  
EP 3W (S) 10R 5%



TE Part # 2355045-3  
3P,2MM,BRK HDR,SRVT,2.8,0.1AU,TB



TE Part # 553602-1  
PLUG ASSY,50 POSN,SCR LK,L PF

Documents

Product Drawings

10P MTA100 HDR ASSY F/L W/O4&7

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_643879-6\_H.2d\_dxf.zip





English

Customer View Model

[ENG\\_CVM\\_CVM\\_643879-6\\_H.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_643879-6\\_H.3d\\_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[Agency Approval Document](#)

English