



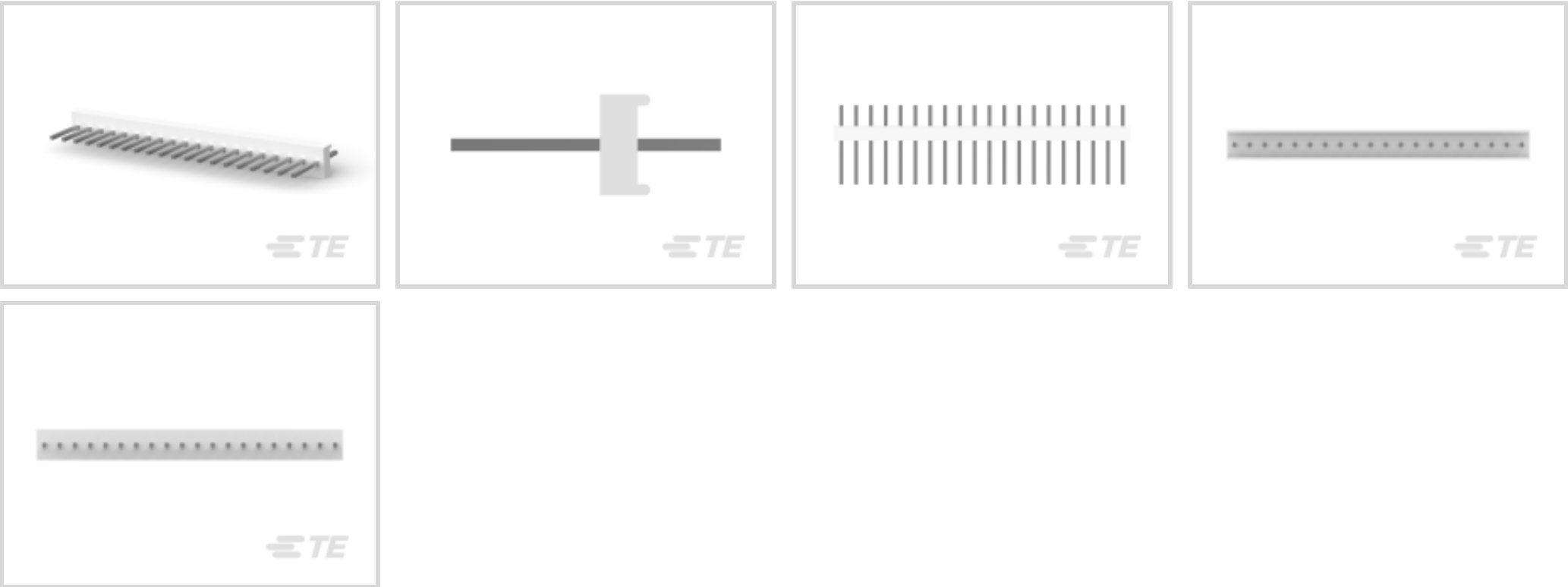
MTA 100

TE Internal #: 2-640452-0

PCB Mount Header, Vertical, Wire-to-Board, 20 Position, 2.54 mm [.1 in] Centerline, Unshrouded, Tin, Through Hole - Solder, Signal, Natural, 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: **20**

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                       | Unshrouded            |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |
| PCB Connector Assembly Type       | PCB Mount Header      |

Configuration Features

|                       |          |
|-----------------------|----------|
| Number of Positions   | 20       |
| 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] |
| 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 Retention        | Without     |
| Panel Mount Feature     | Without     |
| Connector Mounting Type | Board Mount |
| Mating Alignment        | Without     |
| PCB Mount Alignment     | Without     |
| PCB Mount Retention     | Without     |

Housing Features

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

Dimensions

|                  |                  |
|------------------|------------------|
| Connector Length | 53.34 mm[2.1 in] |
|------------------|------------------|



|                             |                 |
|-----------------------------|-----------------|
| Connector Height            | 2.54 mm[.1 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

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

Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 1       |
| Packaging Type     | 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 | No Restricted Materials Above Threshold                                                                                         |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2023 (235)<br>Candidate List Declared Against: JUNE 2023 (235)<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 # 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 # 2-1375820-0  
CST-100 II HOUSING 20 POS

Also in the Series | MTA 100

Insertion & Extraction Tools(2)

PCB Connector Covers(69)

PCB Connector Keying(1)

PCB Headers & Receptacles(440)

Standard Rectangular Connectors(495)

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

Wire-to-Board Connector Contacts(8)

Customers Also Bought





TE Part #HD14-9-1939P  
INL REC ASM



TE Part #2-1393788-2  
V23079A1008B301



TE Part #1011-344-0205  
DUST CAP, 2P, PLG, BLK, DT



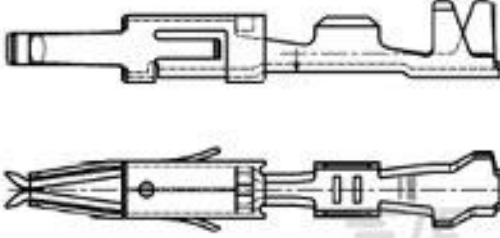
TE Part #DT06-2S-CE06  
PLG, 2P, BLK, E, SEAL RET



TE Part #1879233-9  
SMW5 R22 5%



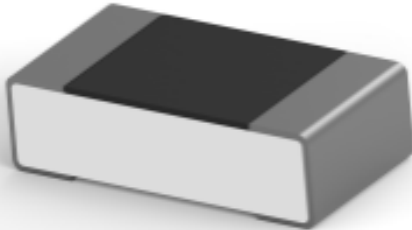
TE Part #0460-202-1631  
PIN, SOLID, SIZE 16, 16-20AWG, AU



TE Part #962876-1  
MT2 REC 1.6 Contact SWS Sn



TE Part #1-967621-5  
JUN-POW-TIM GEH 9P



TE Part #1-2176368-3  
RQ 0603 66K5 0.1% 10PPM 1K RL

Documents

Product Drawings

20P MTA100 HDR ASSY SQ STR

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2-640452-0\_AC.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-640452-0\_AC.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-640452-0\_AC.3d\_stp.zip

English

3D PDF

English



Customer View Model

[ENG\\_CVM\\_2-640452-0\\_Z.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_2-640452-0\\_Z.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_2-640452-0\\_Z.3d\\_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[Agency Approval Document](#)

English