

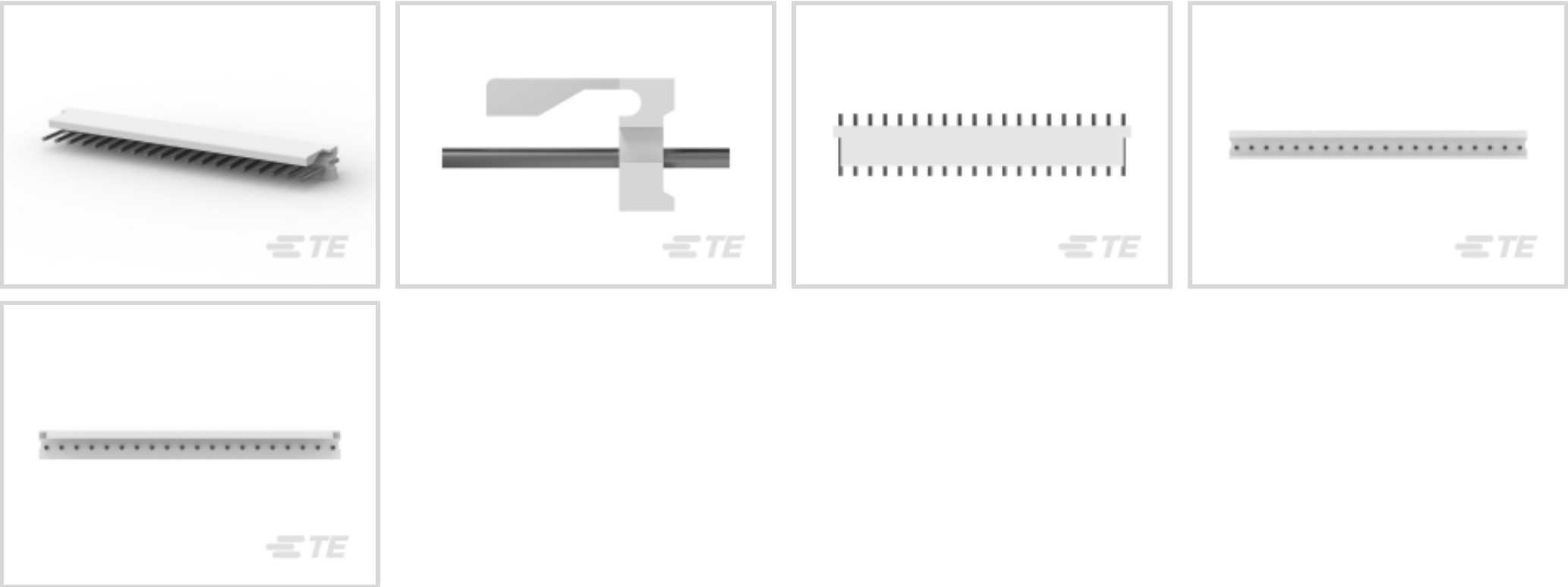


MTA 156

TE Internal #: 2-640388-0  
PCB Mount Header, Vertical, Wire-to-Board, 20 Position, 3.96 mm [.156 in] Centerline, Partially Shrouded, Tin (Sn), Through Hole - Solder, MTA 156

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**  
PCB Mount Orientation: **Vertical**  
Connector System: **Wire-to-Board**  
Number of Positions: **20**  
Centerline (Pitch): **3.96 mm [.156 in]**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Mixed & Hybrid Header             | No                    |
| Connector Shape                   | Rectangular           |
| 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                | 20           |
| Number of Loaded Positions       | 20           |
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation            | Vertical     |
| Number of Positions              | 20           |



|                           |    |
|---------------------------|----|
| Number of Rows            | 1  |
| Number of Power Positions | 20 |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VAC |
|-------------------|---------|

Body Features

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

Contact Features

|                                                         |                  |
|---------------------------------------------------------|------------------|
| Contact Underplating Material                           | Nickel           |
| Mating Pin Diameter                                     | 1.14 mm[.045 in] |
| Contact Underplating Material Thickness                 | 1.27 µm[50 µin]  |
| Contact Size                                            | 1.14mm           |
| PCB Contact Termination Area Plating Material Thickness | 2.54 µm[100 µin] |
| Contact Shape & Form                                    | Round            |
| Contact Layout                                          | Inline           |
| Contact Mating Area Length                              | 10.16 mm[.4 in]  |
| Contact Base Material                                   | Copper Alloy     |
| Contact Mating Area Plating Material                    | Tin (Sn)         |
| Contact Mating Area Plating Material Thickness          | 2.54 µm[100 µin] |
| Contact Type                                            | Pin              |
| Contact Current Rating (Max)                            | 14.24 A          |
| PCB Contact Termination Area Plating Material           | Tin              |

Termination Features

|                                  |                       |
|----------------------------------|-----------------------|
| Termination Post & Tail Diameter | 1.14 mm[.045 in]      |
| Termination Post & Tail Length   | 3.18 mm[.125 in]      |
| Termination Method to PCB        | Through Hole - Solder |

Mechanical Attachment

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



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

Housing Features

|                       |                            |
|-----------------------|----------------------------|
| Mating Entry Location | Top                        |
| Centerline (Pitch)    | 3.96 mm[.156 in]           |
| Housing Material      | Thermoplastic Polyester GF |

Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Connector Width             | 7.62 mm[.3 in]    |
| PCB Thickness (Recommended) | 1.57 mm[.062 in]  |
| Connector Height            | 10.79 mm[.425 in] |
| Connector Length            | 79.25 mm[3.12 in] |

Usage Conditions

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

Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Industry Standards

|                                             |                               |
|---------------------------------------------|-------------------------------|
| Compatible With Agency/Standards Products   | CSA, UL                       |
| UL Rating                                   | Recognized                    |
| Compatible With Approved Standards Products | UL E28476                     |
| Glow Wire Rating                            | Standard Part - Not Glow Wire |
| UL Flammability Rating                      | UL 94V-0                      |

Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 250     |
| 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 | No Restricted Materials Above Threshold      |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250) |



Candidate List Declared Against: JUNE 2025 (250)  
Does not contain REACH SVHC

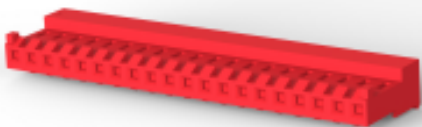
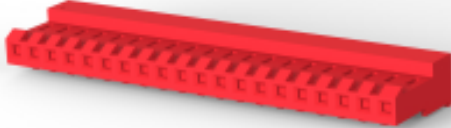
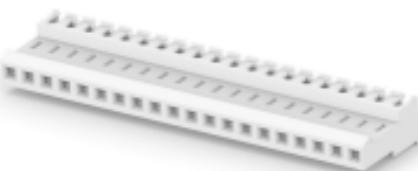
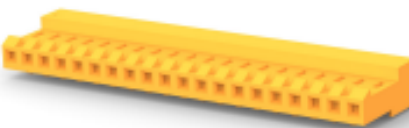
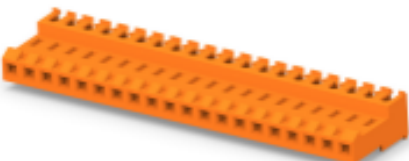
|                 |                                                |
|-----------------|------------------------------------------------|
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
|-----------------|------------------------------------------------|

Solder Process CapabilityWave 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

|                                                                                                                                              |                                                                                                                                               |                                                                                                                                                 |                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>TE Part # 2-640643-0<br>20P MTA156 COVER F/T          | <br>TE Part # 5-643819-0<br>20P MTA156 CONN ASSY 22AWG LF  | <br>TE Part # 2-643071-0<br>20P MTA156 FD-THRU COVER       | <br>TE Part # CAT-103156-WBHSM<br>Receptacle Housing: Wire-to-Board, with Mating Alignment, SL156 |
| <br>TE Part # 5-643817-0<br>20P MTA156 CONN ASSY 18AWG LF | <br>TE Part # 5-640428-0<br>20P MTA156 CONN ASSY 22AWG RED | <br>TE Part # 5-640602-0<br>20P MTA156 CONN ASSY 24AWG LF  | <br>TE Part # 2-640251-0<br>20P SL156 HSG W/O LCK RAMP                                            |
| <br>TE Part # 2-643067-0<br>20P MTA156 MOLDED COVER       | <br>TE Part # 2-640551-0<br>20P MTA156 COVER               | <br>TE Part # 5-640426-0<br>20P MTA156 CONN ASSY 18AWG ORA | <br>TE Part # 5-640599-0<br>20P MTA156 CONN ASSY 18AWG ORA                                        |



Also in the Series | **MTA 156**

|                                |                       |                                    |                                           |
|--------------------------------|-----------------------|------------------------------------|-------------------------------------------|
|                                |                       |                                    |                                           |
| Connector Caps & Covers(89)    | Connector Contacts(4) | Connector Hardware(2)              | Insertion & Extraction Tools(1)           |
|                                |                       |                                    |                                           |
| PCB Headers & Receptacles(677) | Power Contacts(3)     | Rectangular Power Connectors(1178) | Wire-to-Board Headers & Receptacles (677) |

Customers Also Bought

|                                                              |                                            |                                |                                              |
|--------------------------------------------------------------|--------------------------------------------|--------------------------------|----------------------------------------------|
|                                                              |                                            |                                |                                              |
| TE Part #1-111382-4<br>10 DIP PLUG, LEAD FREE                | TE Part #641994-1<br>MTA100 KEYING PLUG W/ | TE Part #1393243-4<br>RTE24012 | TE Part #9-1879515-1<br>CRGH1206 1% 10K 0.5W |
|                                                              |                                            |                                |                                              |
| TE Part #2445750-1<br>ANTENNA 2.4GHz HELICAL<br>VERTICAL THM |                                            |                                |                                              |

Documents

Product Drawings  
20P MTA156 HDR ASSY RN STR F/L

English

CAD Files  
Customer View Model  
ENG\_CVM\_CVM\_2-640388-0\_AD.2d\_dxf.zip



English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2-640388-0\\_AD.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2-640388-0\\_AD.3d\\_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English