

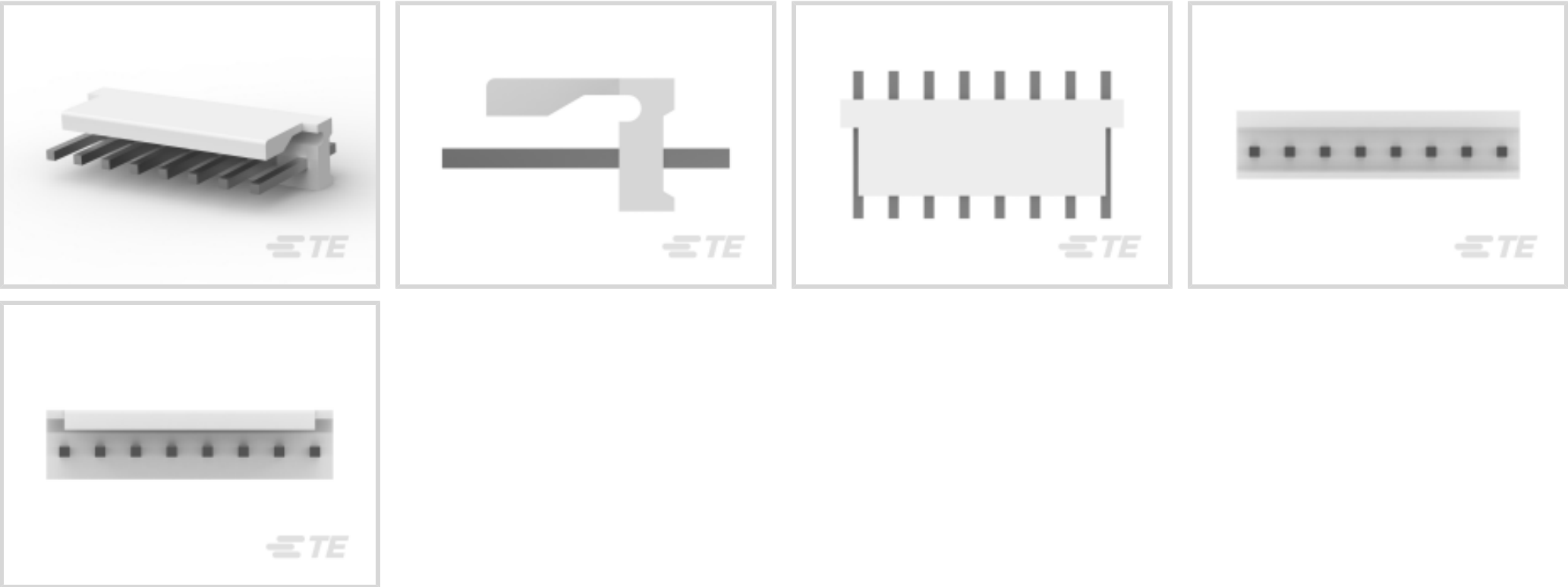


MTA 156

TE Internal #: 3-640445-8  
PCB Mount Header, Vertical, Wire-to-Board, 8 Position, 3.96 mm [.156 in] Centerline, Partially Shrouded, Tin, Through Hole - Solder, Power, MTA 156

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**  
Connector System: **Wire-to-Board**  
Number of Positions: **8**  
Number of Rows: **1**  
Centerline (Pitch): **3.96 mm [.156 in]**

Features

Product Type Features

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

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Number of Power Positions        | 8            |
| Number of Columns                | 8            |
| Number of Loaded Positions       | 8            |
| Connector Contact Load Condition | Fully Loaded |
| Number of Positions              | 8            |
| Number of Rows                   | 1            |



|                       |          |
|-----------------------|----------|
| PCB Mount Orientation | Vertical |
|-----------------------|----------|

Electrical Characteristics

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

Body Features

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

Contact Features

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

Termination Features

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

Mechanical Attachment

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



Housing Features

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

Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Connector Length            | 31.7 mm[1.248 in] |
| Connector Height            | 10.79 mm[.425 in] |
| Connector Width             | 7.62 mm[.3 in]    |
| PCB Thickness (Recommended) | 1.57 mm[.062 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

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

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 1000 |
| Packaging Method   | 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           | 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

|                                                                                                                                                                                           |                                                                                                                                                     |                                                                                                                                                      |                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # CAT-103156-WBHSM<br/>Receptacle Housing: Wire-to-Board, with Mating Alignment, SL156</p> |  <p>TE Part # 640251-8<br/>08P SL156 HSG W/O LCK RAMP</p>       |  <p>TE Part # 3-640428-8<br/>08P MTA156 CONN ASSY 22AWG RED</p> |  <p>TE Part # 3-640599-8<br/>08P MTA156 CONN ASSY 18AWG ORA</p> |
|  <p>TE Part # 3-643817-8<br/>08P MTA156 CONN ASSY 18AWG ORA</p>                                        |  <p>TE Part # 643067-8<br/>08P MTA156 MOLDED COVER</p>          |  <p>TE Part # 3-640606-8<br/>08P MTA156 CONN ASSY 22AWG LF</p>  |  <p>TE Part # 3-640427-8<br/>08P MTA156 CONN ASSY 20AWG YEL</p> |
|  <p>TE Part # 3-640602-8<br/>08P MTA156 CONN ASSY 24AWG LF</p>                                         |  <p>TE Part # 3-643818-8<br/>08P MTA156 CONN ASSY 20AWG YEL</p> |  <p>TE Part # 3-640426-8<br/>08P MTA156 CONN ASSY 18AWG ORA</p> |  <p>TE Part # 3-643819-8<br/>08P MTA156 CONN ASSY 22AWG RED</p> |



TE Part # 3-640434-8  
08P MTA156 CONN ASSY 24AWG WHT

TE Part # 1-641938-1  
08P MTA156 HDR ASSY STR F/L W/

TE Part # 3-640430-8  
08P MTA156 CONN ASSY 26AWG BLU

TE Part # 3-640429-8  
08P MTA156 CONN ASSY 24AWG WHT

TE Part # 3-640600-8  
08P MTA156 CONN ASSY 20AWG LF

TE Part # 3-644463-8  
08P MTA156 CONN ASSY 22AWG RED

TE Part # 3-644466-8  
08P MTA156 CONN ASSY 20AWG YEL

TE Part # 643071-8  
08P MTA156 FD-THRU COVER

Also in the Series | MTA 156

Connector Caps & Covers(89)

Connector Contacts(4)

Connector Hardware(2)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(677)

Rectangular Power Connectors(331)

Standard Rectangular Connectors(336)

Customers Also Bought

TE Part #5499923-1  
AMP-LATCH UNIVERSAL HEADERS

TE Part #776200-4  
23POS,PIN DIA 1.3,HDR ASSY,  
180DEG,COD 4

TE Part #338070-4  
MICRO-MATCH FEM.SE

TE Part #1676161-2  
RN 0805 118R 0.1% 10PPM 1KRL



Documents

Product Drawings

08P MTA156 HDR ASSY FL/STR SN

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_3-640445-8\_AL.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_3-640445-8\_AL.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-640445-8\_AL.3d\_stp.zip

English

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

Product Specifications

Application Specification

English

Agency Approvals

Agency Approval Document

English