

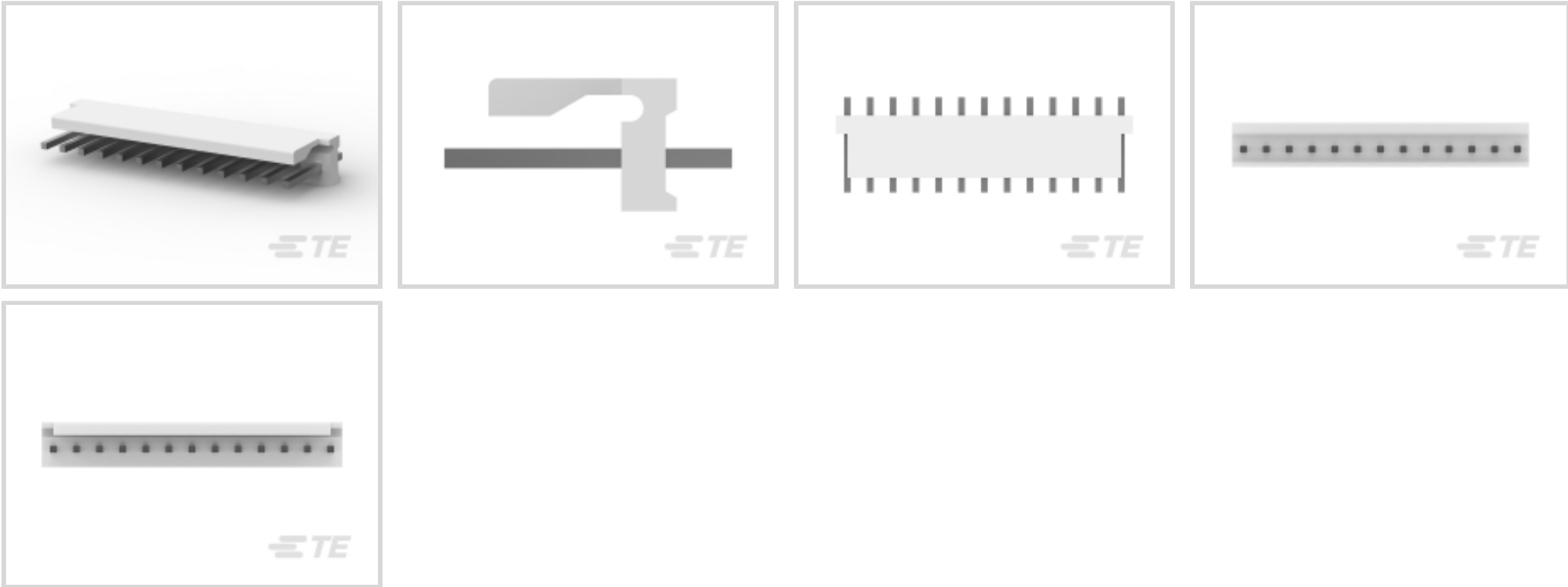


MTA 156

TE Internal #: 1-640445-3  
Header, Plug, Wire-to-Board, 13 Position, 3.96 mm [.156 in]  
Centerline, Printed Circuit Board, UL 94V-0, MTA 156, Rectangular  
Power Connectors

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**  
Connector & Housing Type: **Plug**  
Connector System: **Wire-to-Board**  
Number of Positions: **13**  
Centerline (Pitch): **3.96 mm [.156 in]**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Header Type                       | Partially Shrouded    |
| Rectangular Power Connector Type  | Header                |
| Connector & Housing Type          | Plug                  |
| Connector System                  | Wire-to-Board         |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

|                           |          |
|---------------------------|----------|
| Number of Positions       | 13       |
| PCB Mount Orientation     | Vertical |
| Number of Power Positions | 13       |
| Number of Rows            | 1        |

Electrical Characteristics

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

Contact Features



|                                                         |                  |
|---------------------------------------------------------|------------------|
| Mating Post Length                                      | 10.16 mm[.4 in]  |
| PCB Contact Termination Area Plating Material Thickness | 2.54 μm[100 μin] |
| Contact Layout                                          | Inline           |
| Contact Underplating Material Thickness                 | 50 μm[1.27 μin]  |
| Contact Mating Area Plating Material                    | Tin              |
| Contact Underplating Material                           | Nickel           |
| Contact Base Material                                   | Copper Alloy     |
| Contact Current Rating (Max)                            | 7 A              |
| Contact Retention Within Housing                        | Without          |
| Contact Type                                            | Pin              |
| PCB Contact Termination Area Plating Material           | Tin              |
| Contact Mating Area Plating Material Thickness          | 2.54 μm[100 μin] |

Termination Features

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

Mechanical Attachment

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

Housing Features

|                    |                  |
|--------------------|------------------|
| Centerline (Pitch) | 3.96 mm[.156 in] |
| Housing Color      | Natural          |
| Housing Material   | Polyester        |

Dimensions

|                             |                    |
|-----------------------------|--------------------|
| Connector Height            | 10.79 mm[.425 in]  |
| PCB Thickness (Recommended) | .06 mm[1.6 in]     |
| Product Length              | 51.51 mm[2.028 in] |



Usage Conditions

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

Operation/Application

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

Industry Standards

|                                             |                               |
|---------------------------------------------|-------------------------------|
| CSA Rating                                  | Certified, LR 7189            |
| UL Rating                                   | Recognized                    |
| Compatible With Agency/Standards Products   | CSA, UL, VDE                  |
| Compatible With Approved Standards Products | UL E28476                     |
| UL Flammability Rating                      | UL 94V-0                      |
| Glow Wire Rating                            | Standard Part - Not Glow Wire |

Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 500     |
| 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 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                                                                                                    |

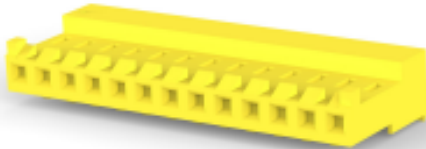
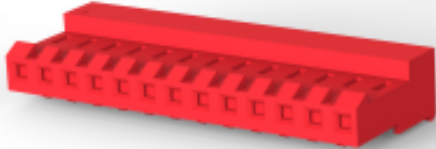
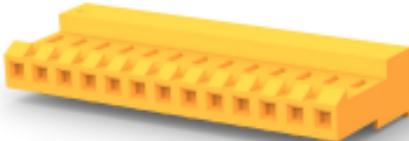
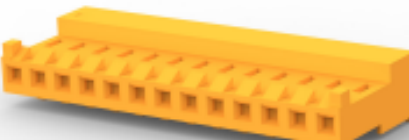
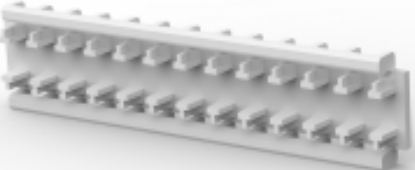
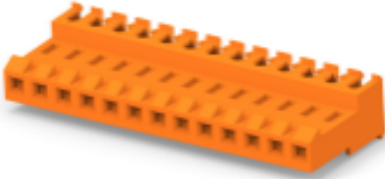
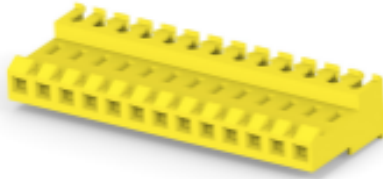
Product Compliance Disclaimer

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

|                                                                                                                                               |                                                                                                                                                                                    |                                                                                                                                                 |                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>TE Part # 1-640251-3<br>13P SL156 HSG W/O LCK RAMP       | <br>TE Part # CAT-103156-WBHSM<br>Receptacle Housing: Wire-to-Board, with Mating Alignment, SL156 | <br>TE Part # 4-643818-3<br>13P MTA156 CONN ASSY 20AWG YEL   | <br>TE Part # 4-640428-3<br>13P MTA156 CONN ASSY 22AWG RED  |
| <br>TE Part # 4-640426-3<br>13P MTA156 CONN ASSY 18AWG ORA | <br>TE Part # 1-770996-3<br>13P SL 156 HSG W/TABS W/O LR                                        | <br>TE Part # 4-640427-3<br>13P MTA156 CONN ASSY 20AWG YEL | <br>TE Part # 1-640551-3<br>13P MTA156 COVER              |
| <br>TE Part # 4-643817-3<br>13P MTA156 CONN ASSY 18AWG ORA | <br>TE Part # 4-643819-3<br>13P MTA156 CONN ASSY 22AWG LF                                       | <br>TE Part # 1-643067-3<br>13P MTA156 MOLDED COVER        | <br>TE Part # 1-643071-3<br>13P MTA156 FD-THRU COVER      |
| <br>TE Part # 1-640643-3<br>13P MTA156 COVER F/T           | <br>TE Part # 4-640429-3<br>13P MTA156 CONN ASSY 24AWG WHT                                      | <br>TE Part # 4-640599-3<br>13P MTA156 CONN ASSY 18AWG ORA | <br>TE Part # 4-640600-3<br>13P MTA156 CONN ASSY 20AWG LF |



TE Part # 4-640601-3  
13P MTA156 CONN ASSY 22AWG LF

TE Part # 4-640602-3  
13P MTA156 CONN ASSY 24AWG LF

TE Part # 4-640605-3  
13P MTA156 CONN ASSY 20AWG LF

TE Part # 4-644465-3  
13P 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(317)

Rectangular Power Connectors(691)

Standard Rectangular Connectors(336)

Customers Also Bought

TE Part #2-2176230-0  
3522 33R 5% 3W

TE Part #8-640905-1  
RECEPT,PIDG FASTON 16-14 250

TE Part #640445-6  
06P MTA156 HDR ASSY FL/STR SN

TE Part #2-520401-2  
ULTRA-FAST 187 ASY REC 22-18 TPBR

TE Part #643067-3  
03P MTA156 MOLDED COVER

TE Part #6-1393114-5  
KUHP-11AT1-120=KU

TE Part #62384-1  
110 FASTON TAB 22-18 AWG TPBR

TE Part #1616396-8  
7503001=GASKET



Documents

Product Drawings

13P MTA156 HDR ASSY FL/STR SN

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_1-640445-3\_AL.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-640445-3\_AL.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-640445-3\_AL.3d\_stp.zip

English

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Product Specifications

Application Specification

English

Agency Approvals

Agency Approval Document

English