



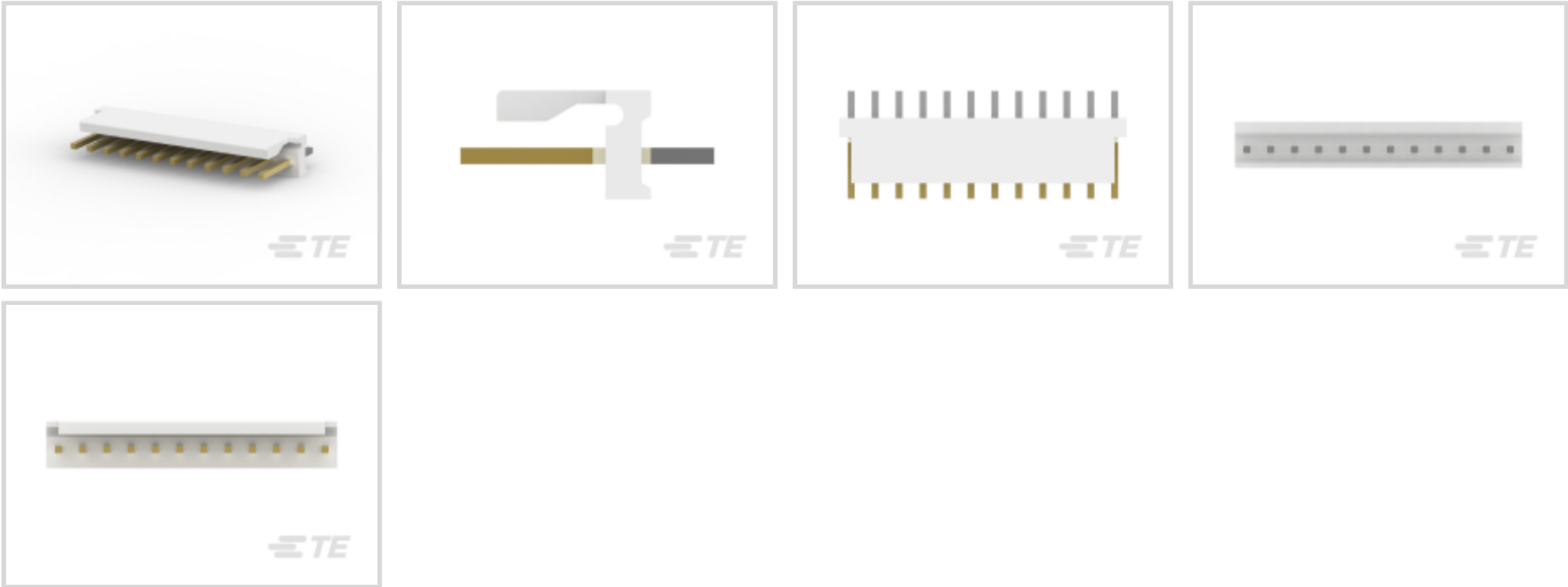
MTA 156

TE Internal #: 4-644759-2

PCB Mount Header, Vertical, Wire-to-Board, 12 Position, 3.96 mm [.156 in] Centerline, Partially Shrouded, Gold (Au), Through Hole - Solder, MTA 156

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

Connector System: **Wire-to-Board**

Number of Positions: **12**

Number of Rows: **1**

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                | 12           |
| Number of Loaded Positions       | 12           |
| Number of Power Positions        | 12           |
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation            | Vertical     |



|                     |    |
|---------------------|----|
| Number of Positions | 12 |
| Number of Rows      | 1  |

Electrical Characteristics

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

Body Features

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

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Underplating Material                           | Nickel                        |
| Contact Underplating Material Thickness                 | 1.27 µm[50 µin]               |
| PCB Contact Termination Area Plating Material Finish    | Matte                         |
| Contact Size                                            | 1.14mm                        |
| Contact Mating Area Plating Material Thickness          | .76 µm[30 µin]                |
| Mating Square Post Dimension                            | 1.14 mm[.045 in]              |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 8.89 µm[150 – 350 µin] |
| Contact Shape & Form                                    | Square                        |
| Contact Layout                                          | Inline                        |
| Contact Mating Area Length                              | 10.16 mm[.4 in]               |
| Contact Base Material                                   | Copper Alloy                  |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Mating Area Plating Material                    | Gold (Au)                     |
| Contact Type                                            | Tab                           |
| Contact Current Rating (Max)                            | 14.24 A                       |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Termination Post & Tail Length           | 4.45 mm[.175 in]      |
| Square Termination Post & Tail Dimension | 1.14 mm[.045 in]      |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

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



|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
| Mating Alignment        | Without     |

Housing Features

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

Dimensions

|                             |                                |
|-----------------------------|--------------------------------|
| Connector Width             | 7.62 mm[.3 in]                 |
| PCB Thickness (Recommended) | 2.36 – 3.18 mm[.093 – .125 in] |
| Connector Height            | 10.79 mm[.425 in]              |
| Connector Length            | 47.55 mm[1.872 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 | 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: JAN 2025  
(247)  
Candidate List Declared Against: JAN 2025  
(247)  
Does not contain REACH SVHC

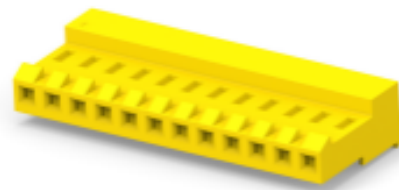
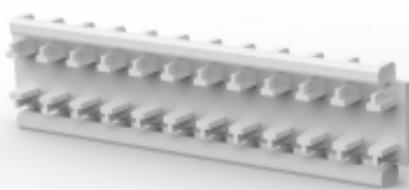
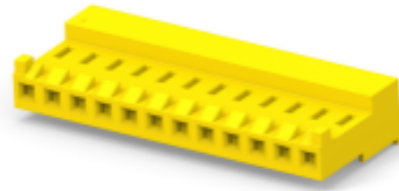
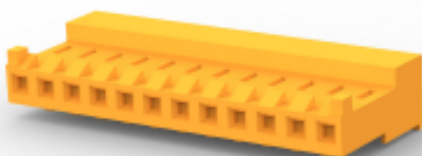
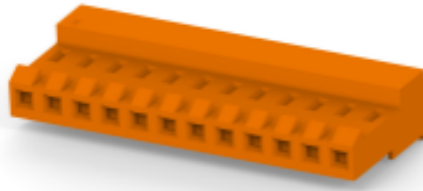
|                 |                                                |
|-----------------|------------------------------------------------|
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
|-----------------|------------------------------------------------|

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 # 4-641218-2<br>12P MTA156 CONN ASSY 20AWG LF | <br>TE Part # CAT-103156-WBHSM<br>Receptacle Housing: Wire-to-Board, with Mating Alignment, SL156 | <br>TE Part # 1-643071-2<br>12P MTA156 FD-THRU COVER       | <br>TE Part # 641876-3<br>12P MTA156 HDR ASSY FL STR SN |
| <br>TE Part # 4-644663-2<br>12P MTA156 CONN ASSY 20AWG LF | <br>TE Part # 4-644460-2<br>12P MTA156 CONN ASSY 18AWG ORA                                        | <br>TE Part # 4-641217-2<br>12P MTA156 CONN ASSY 18AWG ORA | <br>TE Part # 1-640643-2<br>12P MTA156 COVER F/T        |



TE Part # 4-647615-2  
12P MTA156 POL LOCK HDR ASSY LF

TE Part # 1-640551-2  
12P MTA156 COVER

TE Part # 1-643067-2  
12P MTA156 MOLDED COVER

TE Part # 1-640251-2  
12P SL156 HSG W/O LCK RAMP

TE Part # 1-770996-2  
12P SL 156 HSG W/TABS W/O LR

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 #2143154-2  
IMP100S,H,V5P14C,LG,REW39,4,9

TE Part #1888542-3  
MJ,10MM,8P,WAVE PANEL TABS,SN

TE Part #5-147291-5  
03 MODII HDR SR SFMT B/A T&R, lead-Free

TE Part #5188256-1  
2MMHM PIN HDR B MOD 175P-7ROW





TE Part #2178531-4  
Crown Clip Junior AG Plating Reflow

TE Part #7-5179180-3  
0.8FH,R09H.5,080,30/Sn,TR,SC

TE Part #2204167-1  
MBXLE R/A RCPT,A/C PASS THRU  
4ACP+12S+3P

TE Part #5-6450160-4  
MBXL R/A RCPT 1P+16S+1P

TE Part #3-2323270-1  
zSFP+ STACKED BELLY TO BELLY,  
2X8 RECPT

TE Part #2402216-1  
ZSFP+ 1X4 CAGE ASSEMBLY,  
PRESSFIT, 1-LP

Documents

CAD Files

Customer View Model

ENG\_CVM\_CVM\_4-644759-2\_E.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_4-644759-2\_E.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_4-644759-2\_E.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