

641876-6 ✓ ACTIVE

## MTA 156

TE Internal #: 641876-6

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

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Connectors > PCB Connectors > PCB Headers & Receptacles



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

Number of Positions: **12**

Number of Rows: **1**

Centerline (Pitch): **3.96 mm [ .156 in ]**

PCB Mount Orientation: **Vertical**

### Features

|                             |           |
|-----------------------------|-----------|
| CSA Rating                  | Certified |
| Contact Layout              | Inline    |
| Position Locations Omitted  | 3         |
| Number of Blocked Positions | 1         |

### Product Type Features

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

### Configuration Features

|                            |    |
|----------------------------|----|
| Number of Columns          | 12 |
| Number of Loaded Positions | 11 |
| Number of Positions        | 12 |



|                |   |
|----------------|---|
| Number of Rows | 1 |
|----------------|---|

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

### Electrical Characteristics

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

### Body Features

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

### Contact Features

|                              |                  |
|------------------------------|------------------|
| Mating Square Post Dimension | 1.14 mm[.045 in] |
|------------------------------|------------------|

|   |  |
|---|--|
| PCB Contact Termination Area Plating Material Thickness | 2.54 $\mu\text{m}$ [100 $\mu\text{in}$ ] |
|---|--|

|   |   |
|---|---|
| Contact Underplating Material Thickness | 1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ] |
|---|---|

|  |  |
|--|--|
| Contact Mating Area Plating Material Thickness | 2.54 $\mu\text{m}$ [100 $\mu\text{in}$ ] |
|--|--|

|  |       |
|--|-------|
| PCB Contact Termination Area Plating Material Finish | Matte |
|--|-------|

|                      |        |
|----------------------|--------|
| 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) | 7 A |
|------------------------------|-----|

### Termination Features

|                                |                  |
|--------------------------------|------------------|
| Termination Post & Tail Length | 3.18 mm[.125 in] |
|--------------------------------|------------------|

|   |                       |
|---|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---|-----------------------|

### Mechanical Attachment

|                       |              |
|-----------------------|--------------|
| Mating Alignment Type | Polarization |
|-----------------------|--------------|

|                  |      |
|------------------|------|
| Mating Retention | With |
|------------------|------|

|                     |         |
|---------------------|---------|
| Panel Mount Feature | Without |
|---------------------|---------|

|                       |               |
|-----------------------|---------------|
| Mating Retention Type | Friction Lock |
|-----------------------|---------------|

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

|                  |      |
|------------------|------|
| Mating Alignment | With |
|------------------|------|

|                     |         |
|---------------------|---------|
| PCB Mount Alignment | Without |
|---------------------|---------|

|                     |         |
|---------------------|---------|
| PCB Mount Retention | Without |
|---------------------|---------|



### Housing Features

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

### Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Connector Height            | 13.33 mm[.525 in] |
| Connector Width             | 7.62 mm[.3 in]    |
| PCB Thickness (Recommended) | 1.6 mm[.063 in]   |

### Usage Conditions

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

### Operation/Application

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

### Industry Standards

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

### Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 1500    |
| 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 2022 (224)<br>Candidate List Declared Against: JAN 2022 (223)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.   |
| Solder Process Capability                     | Wave solder capable to 265°C   |

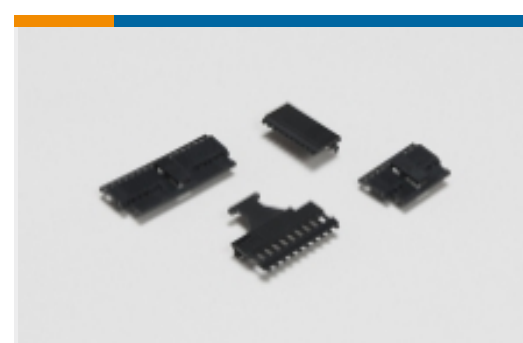
Product Compliance Disclaimer

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>

## Also in the Series | MTA 156



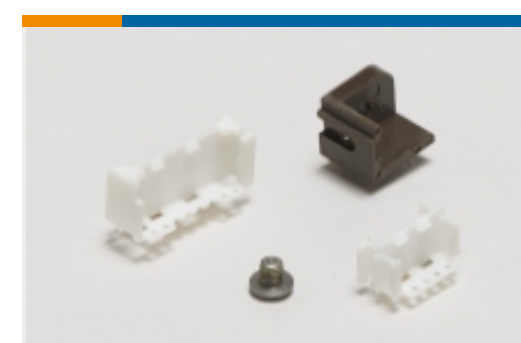
Insertion & Extraction Tools(1)



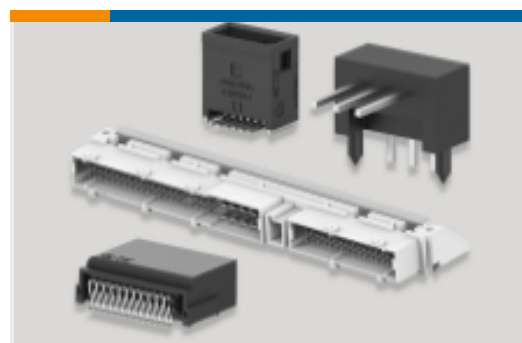
PCB Connector Covers(92)



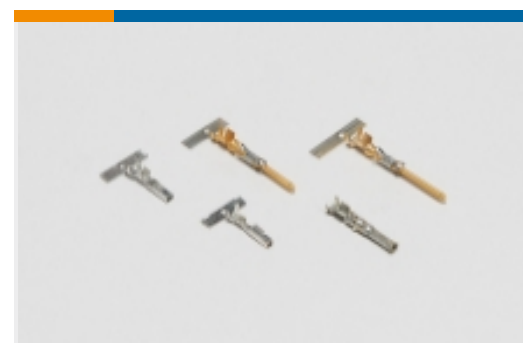
PCB Connector Keying(2)



PCB Connector Mounting(1)



PCB Headers & Receptacles(729)



Power Contacts(3)



Rectangular Caps & Covers(1)



Rectangular Power Connectors(749)



Standard Rectangular Connectors  
(1309)



Wire-to-Board Connector Contacts(12)

## Documents

### Product Drawings

12P MTA156 HDR ASSY F/L W/O#3

English

### CAD Files

Customer View Model



[ENG\\_CVM\\_CVM\\_641876-6\\_AB.2d\\_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_641876-6\\_AB.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_641876-6\\_AB.3d\\_stp.zip](#)

English

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