

3-641209-9 ✓ ACTIVE



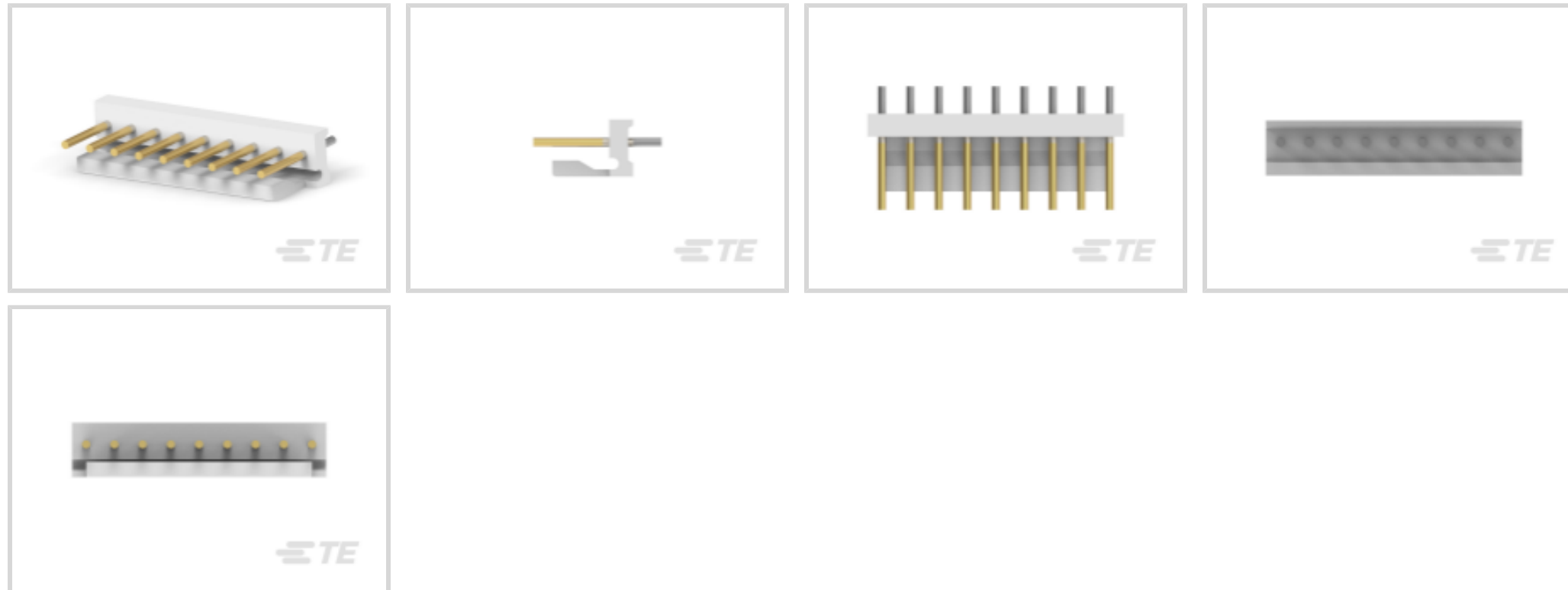
## MTA 156

TE Internal #: 3-641209-9

PCB Mount Header, Vertical, Wire-to-Board, 9 Position, 3.96 mm [.156 in] Centerline, Partially Shrouded, Gold, Through Hole - Solder, Power, MTA 156

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Connectors > PCB Connectors > PCB Headers & Receptacles



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

Number of Positions: **9**

Number of Rows: **1**

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

PCB Mount Orientation: **Vertical**

## Features

### 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 Positions   | 9        |
| 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]                                       |
| PCB Contact Termination Area Plating Material Thickness | 3.81 – 8.89 $\mu\text{m}$ [150 – 350 $\mu\text{in}$ ] |
| Contact Layout  | Inline  |
| Mating Pin Diameter                                     | 1.14 mm[.045 in]                                      |
| Contact Underplating Material Thickness                 | 1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]               |
| Contact Mating Area Plating Material Thickness          | .76 $\mu\text{m}$ [29.92 $\mu\text{in}$ ]             |
| PCB Contact Termination Area Plating Material Finish    | Matte   |
| Contact Shape & Form                                    | Round   |
| Contact Mating Area Plating Material Finish             | Bright  |
| Contact Underplating Material                           | Nickel  |
| PCB Contact Termination Area Plating Material           | Tin   |
| Contact Base Material                                   | Copper Alloy  |
| Contact Mating Area Plating Material                    | Gold  |
| Contact Type  | Pin   |
| Contact Current Rating (Max)                            | 7 A   |

### 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

|                         |               |
|-------------------------|---------------|
| 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 Length            | 27.74 mm[1.092 in] |
| Connector Height            | 10.8 mm[.425 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

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

### Packaging Features

|                    |         |
|--------------------|---------|
| Packaging Quantity | 2000    |
| 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



TE Part # CAT-103156-WBHSM  
Receptacle Housing: Wire-to-Board, with Mating Alignment, SL156



TE Part # 640251-9  
09P SL156 HSG W/O LCK RAMP



TE Part # 640551-9  
09P MTA156 COVER



TE Part # 643067-9  
09P MTA156 MOLDED COVER



TE Part # 643071-9  
09P MTA156 FD-THRU COVER



TE Part # 640643-9  
09P MTA156 COVER F/T



TE Part # 3-641217-9  
09P MTA156 CONN ASSY 18AWG ORA



TE Part # 3-644460-9  
09P MTA156 CONN ASSY 18AWG ORA



TE Part # 3-641218-9  
09P MTA156 CONN ASSY 20AWG LF



TE Part # 3-641220-9  
09P MTA156 CONN ASSY 24AWG LF



TE Part # 3-641227-9  
09P MTA156 CONN ASSY 18AWG LF



TE Part # 3-641229-9  
09P MTA156 CONN ASSY 22AWG LF



TE Part # 3-644662-9  
09P MTA156 CONN ASSY 22AWG LF

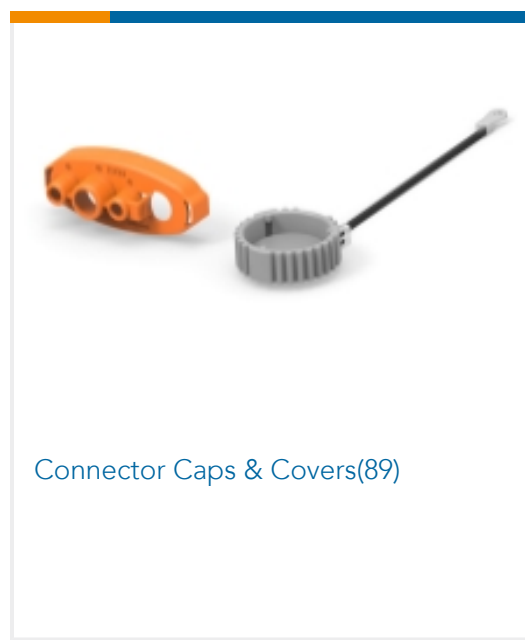


TE Part # 3-644663-9  
09P MTA156 CONN ASSY 20AWG LF

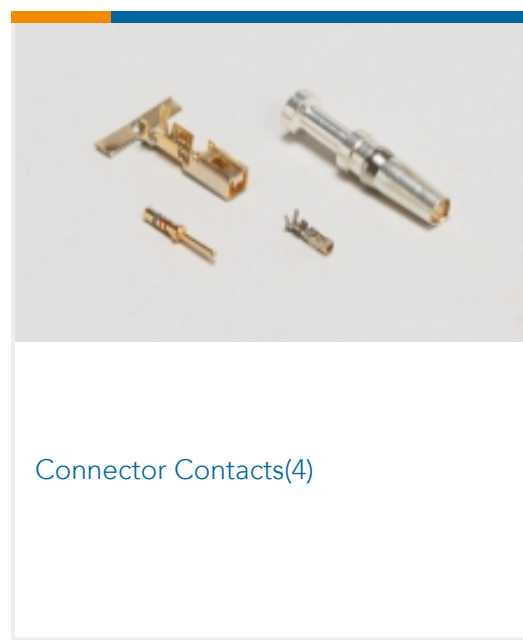


TE Part # 3-644718-9  
09P MTA156 CONN ASSY 18AWG ORA

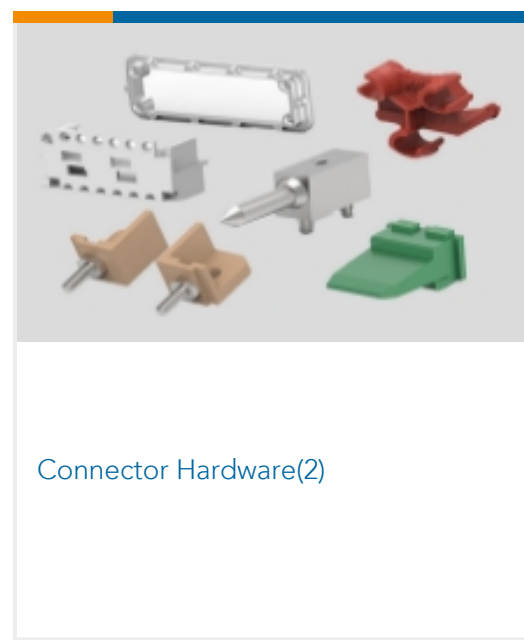
Also in the Series | **MTA 156**



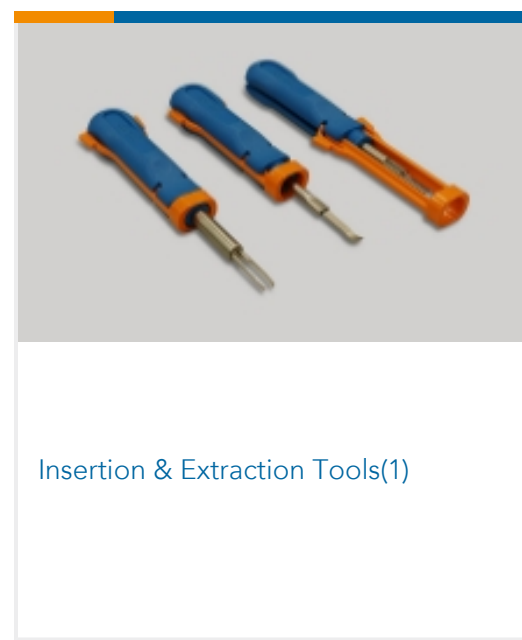
Connector Caps & Covers(89)



Connector Contacts(4)



Connector Hardware(2)



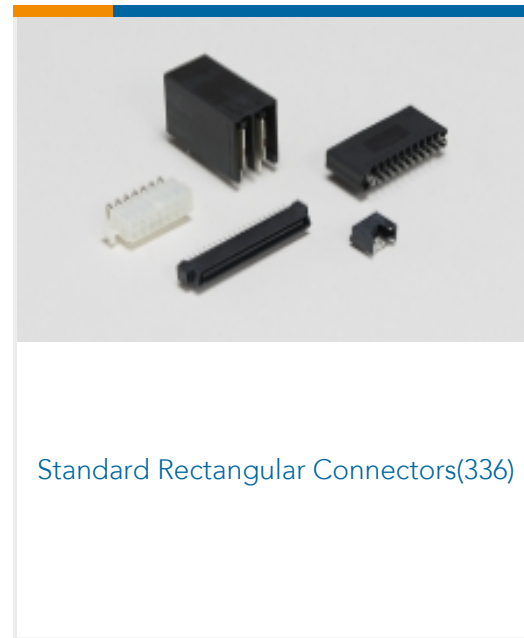
Insertion & Extraction Tools(1)



PCB Headers & Receptacles(317)



Rectangular Power Connectors(691)



Standard Rectangular Connectors(336)

## Customers Also Bought



TE Part #4-641215-4  
PCB Header: Polyester, Vertical, Unshrouded, No Mating Alignment



TE Part #3-641209-8  
08P MTA156 HDR ASSY FL ST LF



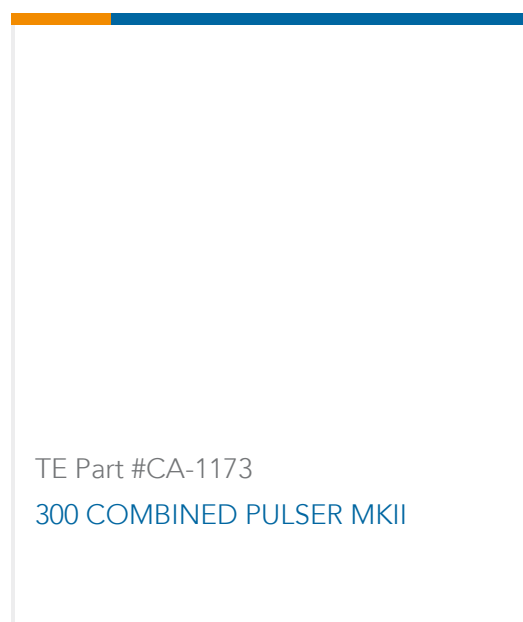
TE Part #3-641209-3  
03P MTA156 HDR ASSY FL ST LF



TE Part #3-641209-7  
07P MTA156 HDR ASSY FL ST LF



TE Part #4-641120-0  
10P MTA156 HDR ASSY FL/ST LF



TE Part #CA-1173  
300 COMBINED PULSER MKII

## Documents

### Product Drawings

[09P MTA156 HDR ASSY FL ST LF](#)

English

### CAD Files

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_3-641209-9\\_AE.2d\\_dxf.zip](#)

English

[3D PDF](#)



3D

Customer View Model

[ENG\\_CVM\\_CVM\\_3-641209-9\\_AE.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_3-641209-9\\_AE.3d\\_stp.zip](#)

English

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**Product Specifications**

[Application Specification](#)

English