



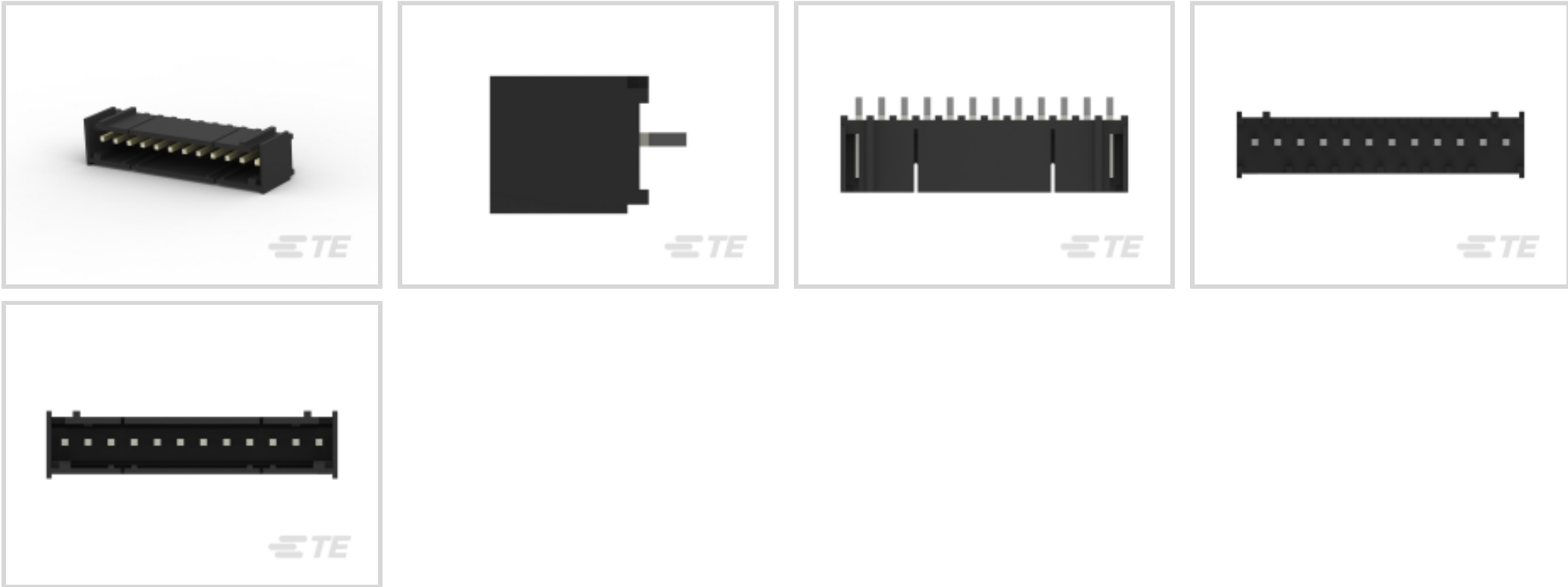
MTA 156

TE Internal #: 3-647123-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 12 Position, 3.96 mm [.156 in] Centerline, Printed Circuit Board, UL 94V-0, MTA 156

[View on TE.com >](#)

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: **12**

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

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Header Type                       | Fully 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       | 12       |
| PCB Mount Orientation     | Vertical |
| Number of Power Positions | 12       |
| Number of Rows            | 1        |

Electrical Characteristics

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

Body Features



|                   |          |
|-------------------|----------|
| Connector Profile | Standard |
|-------------------|----------|

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Mating Post Length                                      | 7.62 mm[.3 in]                |
| PCB Contact Termination Area Plating Material Thickness | 2.54 µm[100 µin]              |
| Contact Layout                                          | Inline                        |
| Contact Mating Area Plating Material                    | Tin                           |
| Contact Mating Area Plating Material Finish             | Matte                         |
| 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          | 3.81 - 8.89 µm[150 - 350 µin] |

Termination Features

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

Mechanical Attachment

|                         |              |
|-------------------------|--------------|
| Strain Relief           | Without      |
| Mating Alignment Type   | Polarization |
| Mating Retention        | With         |
| Mating Alignment        | With         |
| PCB Mount Alignment     | Without      |
| Panel Mount Feature     | Without      |
| PCB Mount Retention     | Without      |
| Mating Retention Type   | Latch Detent |
| Connector Mounting Type | Board Mount  |

Housing Features

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

Dimensions

|  |
|--|
|  |
|--|



|                             |                    |
|-----------------------------|--------------------|
| Connector Height            | 13.34 mm[.525 in]  |
| PCB Thickness (Recommended) | 1.57 mm[.062 in]   |
| Product Length              | 49.94 mm[1.966 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                       |
| 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 | 1       |
| 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 2024 (240)<br>Candidate List Declared Against: JAN 2021 (211)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                |
| Solder Process Capability                     | Wave solder capable to 240°C                                                                                                  |

Product Compliance Disclaimer

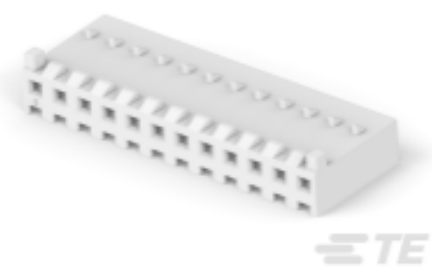
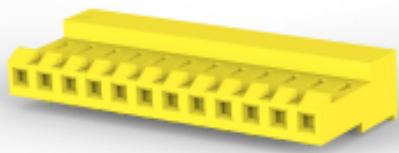
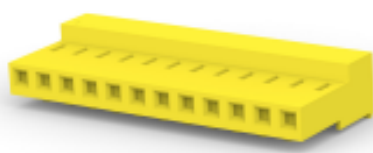
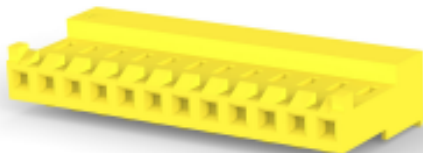
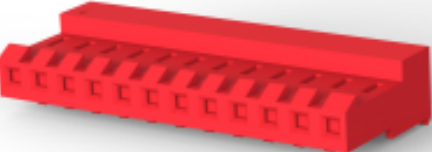
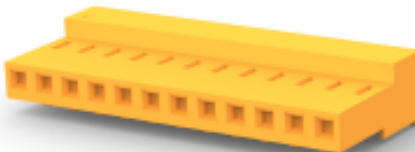
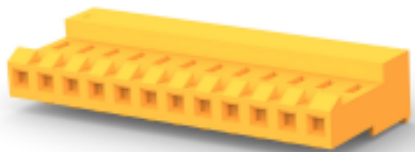
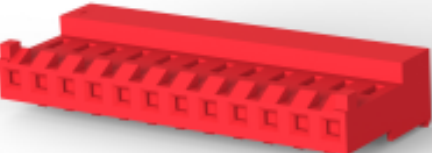
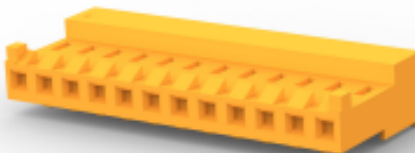
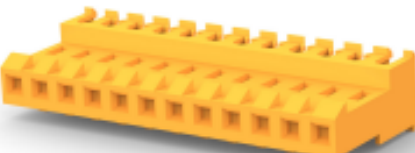
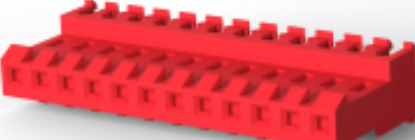
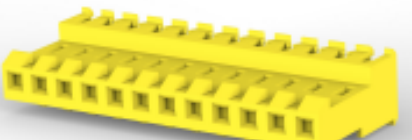
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 1-2132189-2<br>12P SL156 HSG W/LCK RMP, TABS & RTNR | <br>TE Part # 4-640427-2<br>12P MTA156 CONN ASSY 20AWG YEL  | <br>TE Part # 4-640432-2<br>12P MTA156 CONN ASSY 20AWG YEL  | <br>TE Part # 4-643818-2<br>12P MTA156 CONN ASSY 20AWG YEL |
| <br>TE Part # 4-640428-2<br>12P MTA156 CONN ASSY 22AWG RED       | <br>TE Part # 4-640431-2<br>12P MTA156 CONN ASSY 18AWG ORA | <br>TE Part # 4-640426-2<br>12P MTA156 CONN ASSY 18AWG ORA | <br>TE Part # 1-640551-2<br>12P MTA156 COVER              |
| <br>TE Part # 4-643819-2<br>12P MTA156 CONN ASSY 22AWG LF        | <br>TE Part # 4-643817-2<br>12P MTA156 CONN ASSY 18AWG LF  | <br>TE Part # 4-640599-2<br>12P MTA156 CONN ASSY 18AWG ORA | <br>TE Part # 1-643067-2<br>12P MTA156 MOLDED COVER       |
| <br>TE Part # 1-643071-2<br>12P MTA156 FD-THRU COVER             | <br>TE Part # 4-640429-2<br>12P MTA156 CONN ASSY 24AWG WHT | <br>TE Part # 4-640601-2<br>12P MTA156 CONN ASSY 22AWG LF  | <br>TE Part # 4-640600-2<br>12P MTA156 CONN ASSY 20AWG LF |





TE Part # 4-644465-2  
12P MTA156 CONN ASSY 18AWG  
ORA

TE Part # 4-640430-2  
12P MTA156 CONN ASSY 26AWG BLU

TE Part # 4-644464-2  
12P MTA156 CONN ASSY 24AWG LF

TE Part # 4-644466-2  
12P MTA156 CONN ASSY 20AWG YEL

Also in the Series | MTA 156

Connector Caps & Covers(89)

Connector Contacts(4)

Connector Hardware(2)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(314)

Rectangular Power Connectors(691)

Standard Rectangular Connectors(336)

Customers Also Bought

TE Part # 3-1734592-0  
FPC CONN. 0.5MM PITCH B/C, 30P

TE Part # 5-103634-2  
03 MTE HDR SRRA LATCH.100CL LF

TE Part # 5556591-1  
MJ,LPF,R/A,8P/8C,SHLD,KEYEDP

TE Part # 770351-1  
04P UMNL PIN HDR ASSY W/O DRNS

TE Part # 5-147278-1  
02 MTE HDR SRRA SFMNT .100CL

TE Part # 1-825433-0  
MOD 2 PINHDR 1X10P.

TE Part # 1-1437667-2  
4DB-P107-06=4DB ASSEMBLY

TE Part # 5227161-6  
RTANG JK W/MTG PINS, BNC PCB



Documents

Product Drawings

12P MTA156 SHRD HDR ASSY SQ SN

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_3-647123-2\_D.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-647123-2\_D.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-647123-2\_D.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