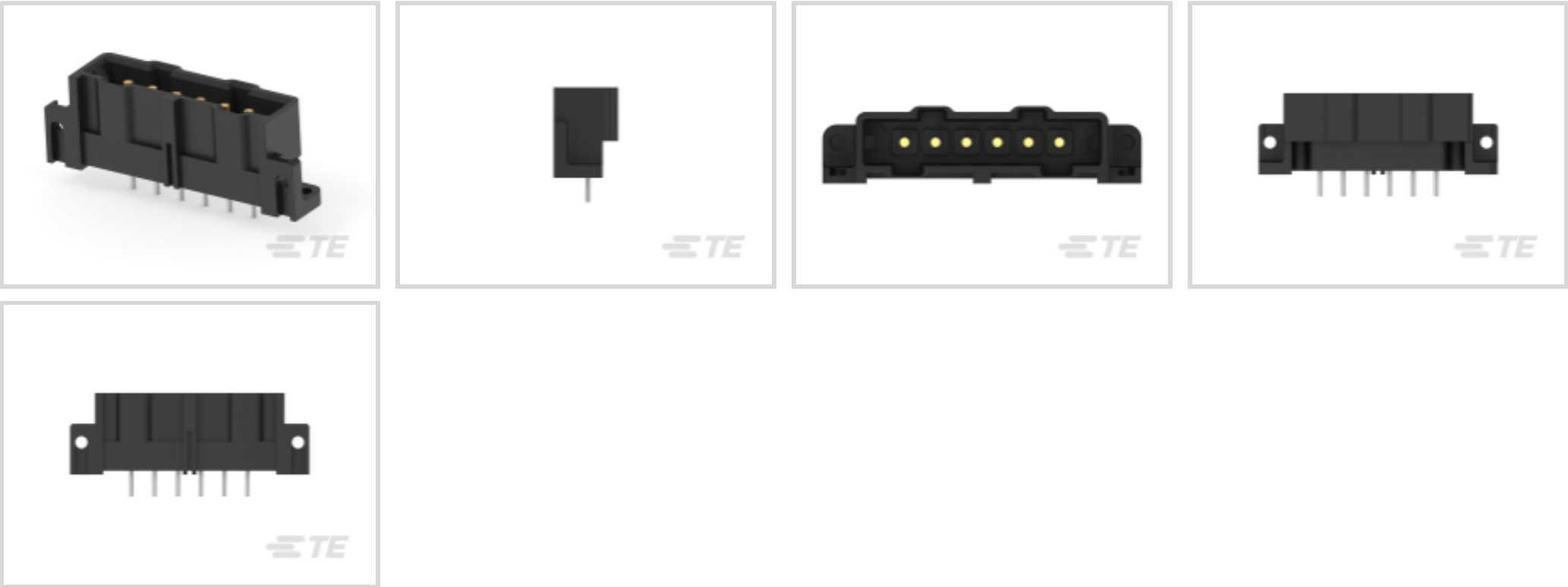




Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: **Wire-to-Board**  
Number of Positions: **6**  
Number of Rows: **1**  
Centerline (Pitch): **5 mm [.197 in]**  
PCB Mount Orientation: **Vertical**

Features

Product Type Features

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

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Connector Contact Load Condition | Fully Loaded |
| Number of Positions              | 6            |
| Number of Rows                   | 1            |
| PCB Mount Orientation            | Vertical     |

Electrical Characteristics

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

Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|



Contact Features

|                                                         |                   |
|---------------------------------------------------------|-------------------|
| Contact Layout                                          | Matrix            |
| PCB Contact Termination Area Plating Material Thickness | 3.81 μm[150 μin]  |
| Mating Pin Diameter                                     | 1.75 mm[.069 in]  |
| Contact Underplating Material Thickness                 | 1.27 μm[50 μin]   |
| Contact Mating Area Plating Material Thickness          | .76 μm[29.92 μin] |
| PCB Contact Termination Area Plating Material Finish    | Matte             |
| Contact Mating Area Plating Material Finish             | Bright            |
| Contact Underplating Material                           | Nickel            |
| PCB Contact Termination Area Plating Material           | Tin               |
| Contact Mating Area Plating Material                    | Gold              |
| Contact Type                                            | Pin               |
| Contact Current Rating (Max)                            | 7.5 A             |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Round Termination Post & Tail Diameter      | .99 mm[.039 in]       |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

|                          |              |
|--------------------------|--------------|
| Mating Alignment Type    | Polarization |
| Mating Retention         | With         |
| PCB Mount Retention Type | Screw Mount  |
| Connector Mounting Type  | Board Mount  |
| Mating Alignment         | With         |
| PCB Mount Alignment      | Without      |
| PCB Mount Retention      | With         |

Housing Features

|                    |               |
|--------------------|---------------|
| Housing Material   | PA 66         |
| Centerline (Pitch) | 5 mm[.197 in] |

Dimensions

|                 |                  |
|-----------------|------------------|
| Connector Width | 17.5 mm[.689 in] |
|-----------------|------------------|

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 130 °C[-67 – 266 °F] |
|-----------------------------|----------------------------|

Operation/Application



|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

Industry Standards

|                        |              |
|------------------------|--------------|
| Agency/Standard        | CSA, UL, VDE |
| UL Flammability Rating | UL 94V-0     |

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 10   |
| Packaging Type     | Tube |

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: JUNE 2022 (224)<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

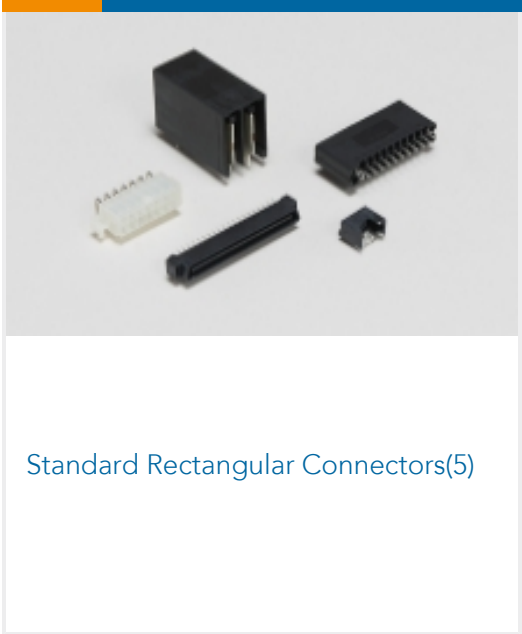
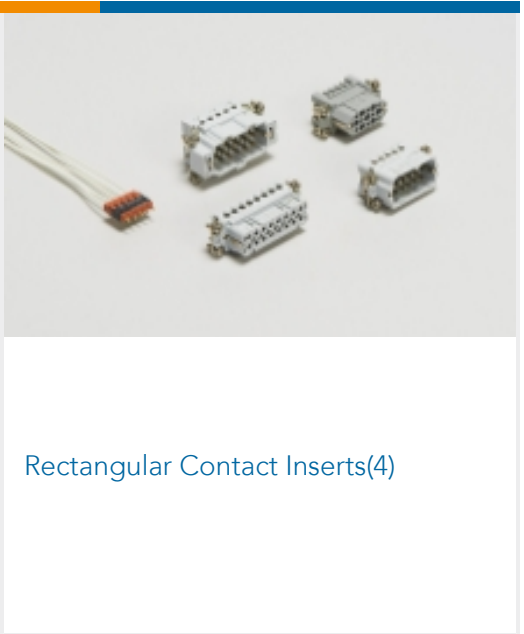
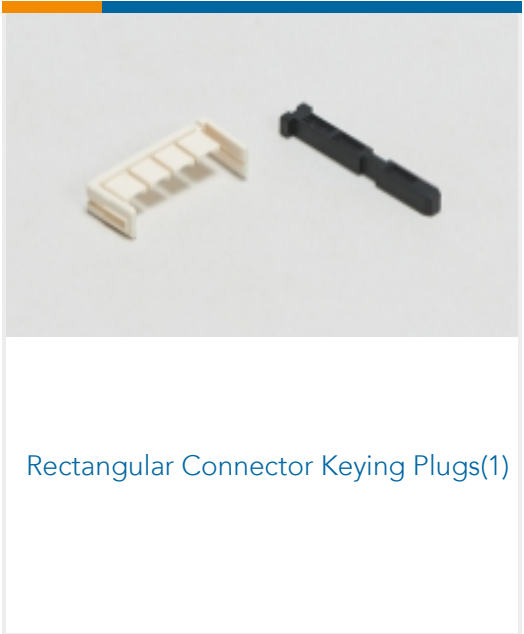
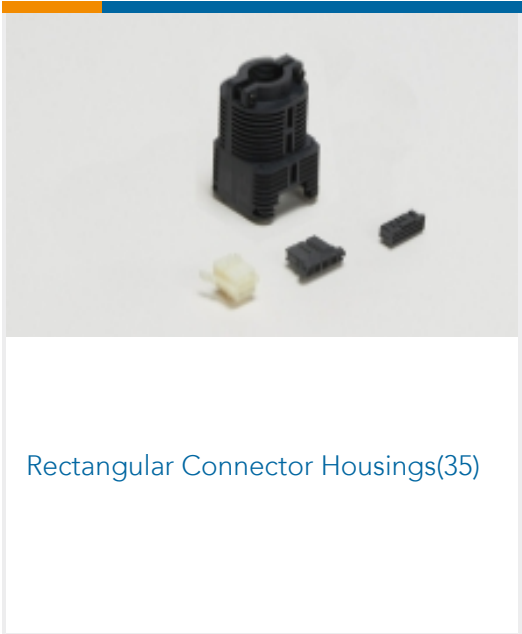
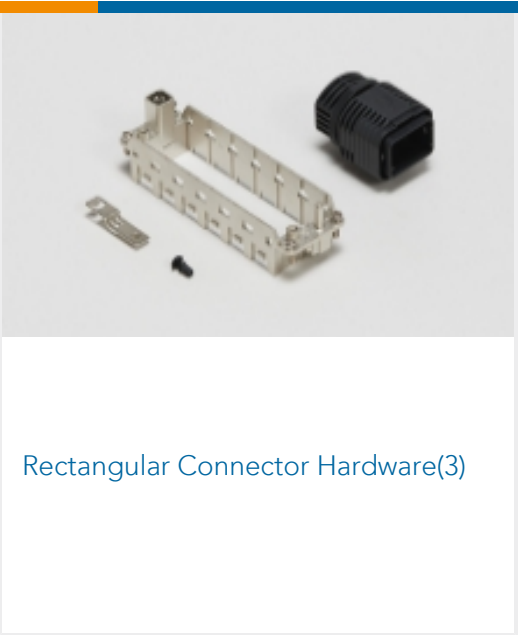
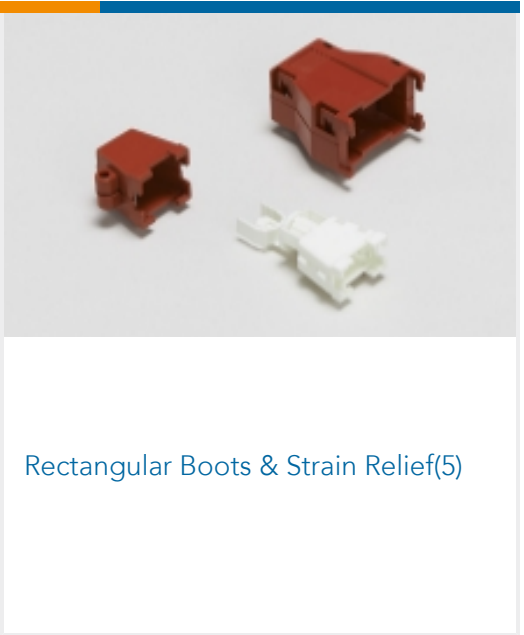
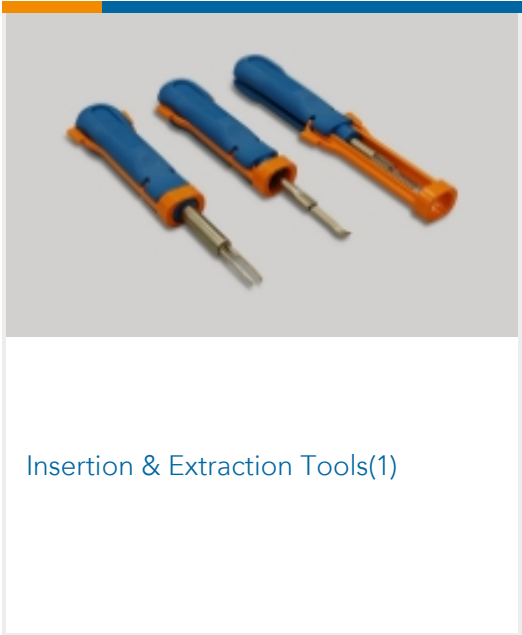
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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





Also in the Series | AMP Metrimate



Documents

Product Drawings

MMATE PIN HDR ASSY,6P LF

English

CAD Files

Customer View Model

ENG\_CVM\_207583-7\_J.3d\_igs.zip

English



Customer View Model

[ENG\\_CVM\\_207583-7\\_J.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_207583-7\\_J.2d\\_dxf.zip](#)

English

3D PDF

English

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_207583-7\\_M.2d\\_dxf.zip](#)

English

Customer View Model

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Customer View Model

[ENG\\_CVM\\_CVM\\_207583-7\\_M.3d\\_stp.zip](#)

English

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Datasheets & Catalog Pages

[METRIMATE\\_PIN\\_SOCKET\\_CATALOG](#)

English

Product Specifications

[Application Specification](#)

English

[METRIMATE Self-Locking Connectors](#)

Japanese

[Application Specification](#)

Japanese

Product Environmental Compliance

[MD\\_207583-7\\_11102017624\\_dmtec](#)

English

[MD\\_207583-7\\_11102017624\\_dmtec](#)

English

Agency Approvals

[UL Report](#)

English