

178499-1 ✓ ACTIVE

AMP Universal Power

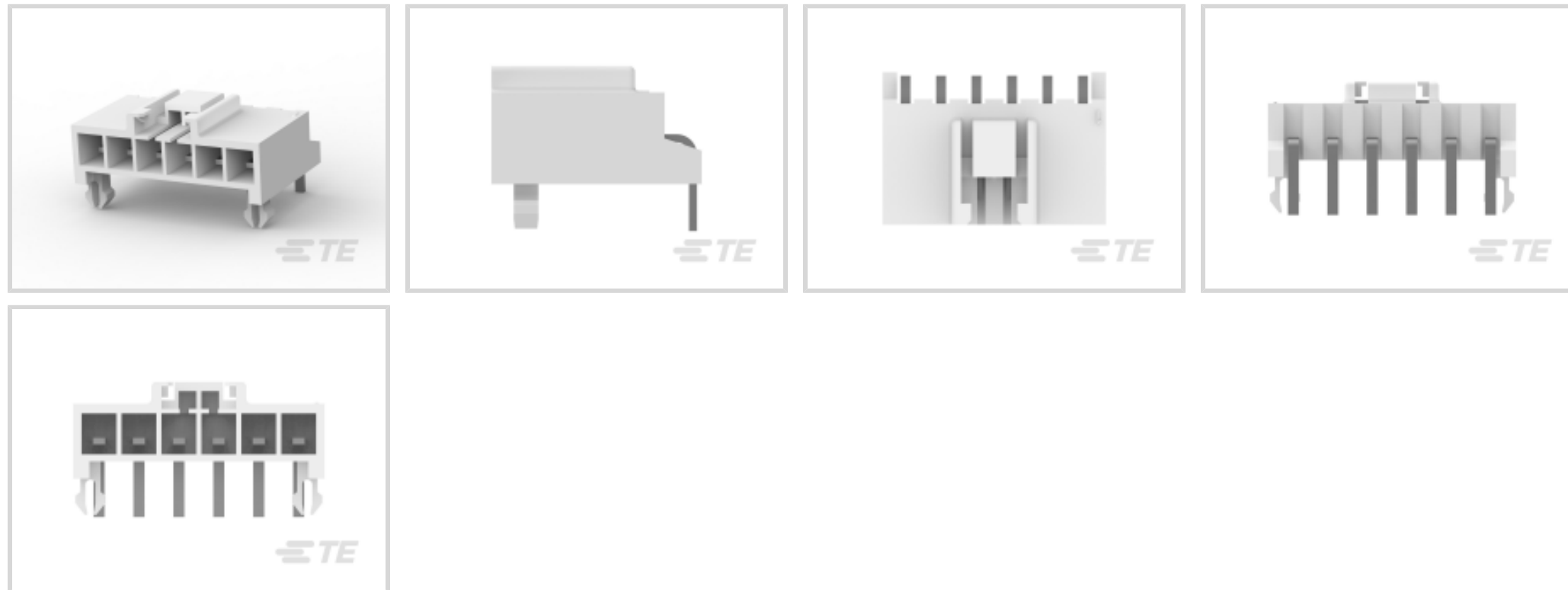
TE Internal #: 178499-1

PCB Mount Header, Right Angle, Wire-to-Board, 6 Position, 3.96 mm [.155 in] Centerline, Fully Shrouded, Tin, AMP Universal Power

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Right Angle**

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

Features

Other

| | |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance | Compliant |

Product Type Features

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

Configuration Features

| | |
|----------------------------|---|
| Number of Columns | 6 |
| Number of Loaded Positions | 6 |
| Number of Power Positions | 6 |



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

Electrical Characteristics

| | |
|-------------------|--------|
| Operating Voltage | 50 VAC |
|-------------------|--------|

Body Features

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

Contact Features

| | |
|---|--|
| Contact Underplating Material | Nickel |
| Contact Underplating Material Thickness | .8 – 1.8 μm [31.49 – 70.86 μin] |
| PCB Contact Termination Area Plating Material Finish | Bright |
| Contact Size | 1.2mm |
| Contact Mating Area Plating Material Thickness | 1 μm [39.37 μin] |
| Mating Tab Width | 1.2 mm[.047 in] |
| PCB Contact Termination Area Plating Material Thickness | 1 μm [39.37 μin] |
| Contact Shape & Form | Rectangular |
| Contact Layout | Inline |
| Contact Base Material | Brass |
| Mating Tab Thickness | .64 mm[.025 in] |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material Finish | Bright |
| Contact Mating Area Plating Material | Tin |
| Contact Type | Tab |
| Contact Current Rating (Max) | 9 A |

Termination Features

| | |
|---|-----------------------|
| Rectangular Termination Post & Tail Width | 1.1 mm[.043 in] |
| Rectangular Termination Post & Tail Thickness | .64 mm[.025 in] |
| Termination Post & Tail Length | 3.8 mm[.15 in] |
| Termination Method to PCB | Through Hole - Solder |

Mechanical Attachment

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



| | |
|-----------------------|---------------|
| Mating Retention Type | Locking Latch |
|-----------------------|---------------|

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

| | |
|--------------------------|-----------|
| PCB Mount Retention Type | Boardlock |
|--------------------------|-----------|

| | |
|---------------------|------|
| PCB Mount Retention | With |
|---------------------|------|

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

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

| | |
|------------------|---------|
| Mating Alignment | Without |
|------------------|---------|

Housing Features

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|-----------------------|------|
| Mating Entry Location | Side |
|-----------------------|------|

| | |
|------------------|--------------|
| Housing Material | Nylon 6/6 GF |
|------------------|--------------|

| | |
|--------------------|-------------------|
| Centerline (Pitch) | 3.96 mm [.155 in] |
|--------------------|-------------------|

Dimensions

| | |
|-----------------|-----------------|
| Connector Width | 14 mm [.551 in] |
|-----------------|-----------------|

| | |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1.6 mm [.063 in] |
|-----------------------------|------------------|

| | |
|------------------|-------------------|
| Connector Height | 9.55 mm [.376 in] |
|------------------|-------------------|

| | |
|------------------|------------------|
| Connector Length | 24.9 mm [.98 in] |
|------------------|------------------|

Usage Conditions

| | |
|-----------------------------|-----------------|
| Operating Temperature (Max) | 105 °C [221 °F] |
|-----------------------------|-----------------|

| | |
|-----------------------------|-----------------------------|
| Operating Temperature Range | -30 – 105 °C [-22 – 221 °F] |
|-----------------------------|-----------------------------|

Operation/Application

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

Industry Standards

| | |
|------------------|-------------------------------|
| Glow Wire Rating | Standard Part - Not Glow Wire |
|------------------|-------------------------------|

| | |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

| | |
|--------------------|-----|
| Packaging Quantity | 100 |
|--------------------|-----|

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|------------------|-----|
| Packaging Method | Bag |
|------------------|-----|

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.te.com)>

| | |
|------------------------------|-----------|
| EU RoHS Directive 2011/65/EU | Compliant |
|------------------------------|-----------|

| | |
|-----------------------------|-----------|
| EU ELV Directive 2000/53/EC | Compliant |
|-----------------------------|-----------|

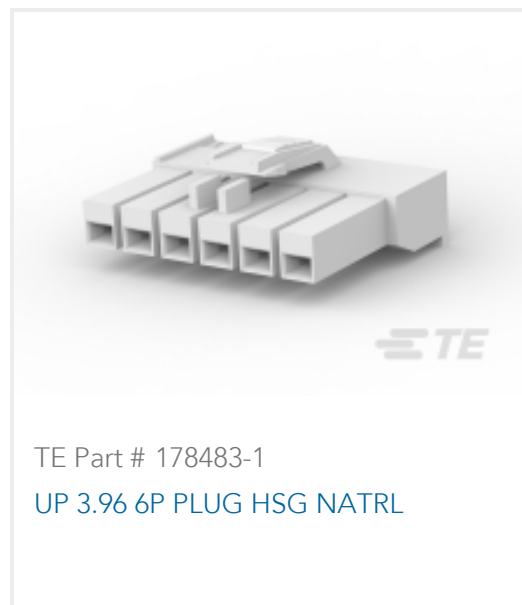


| | |
|---|---|
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| Solder Process Capability | Wave solder capable to 265°C |

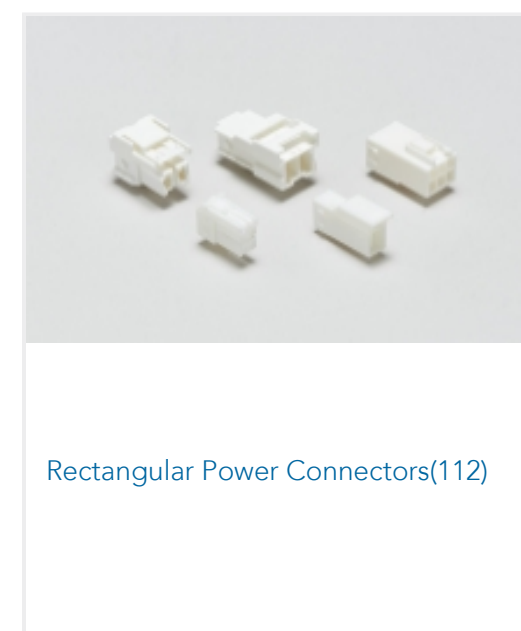
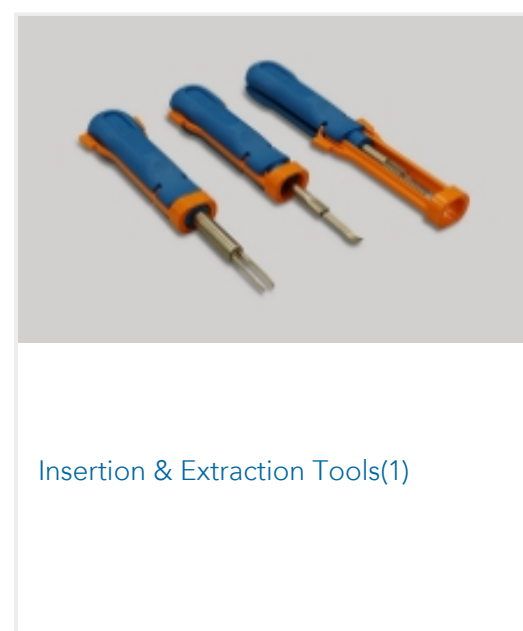
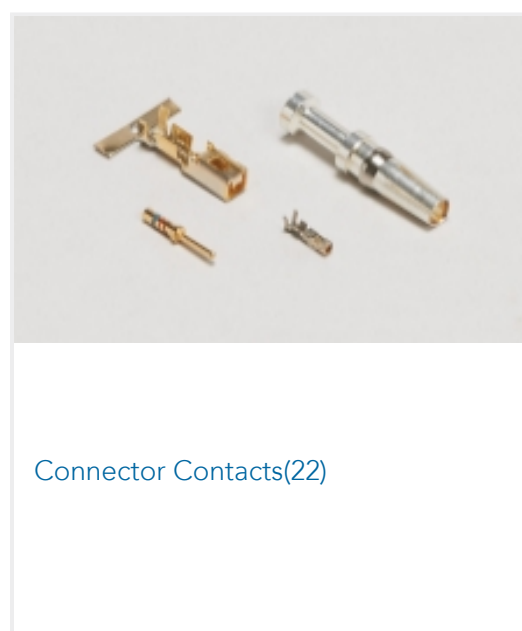
Product Compliance Disclaimer

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 Universal Power



Customers Also Bought



Documents

Product Drawings

[UP 3.96 6P TAB HDR NATL TYPE 1](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_178499-1_E.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_178499-1_E.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_178499-1_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

Instruction Sheets

AMP UNIVERSAL POWER CONNECTOR SERIES

English

Instruction Sheet (non U.S.)

English

Agency Approvals

UL Report

English