# 2-178841-4 ✔ ACTIVE

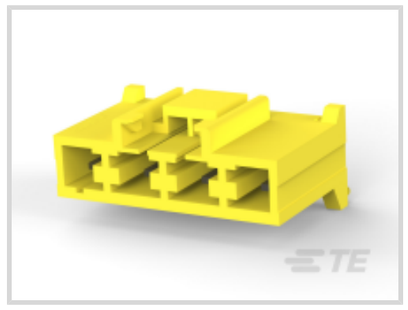
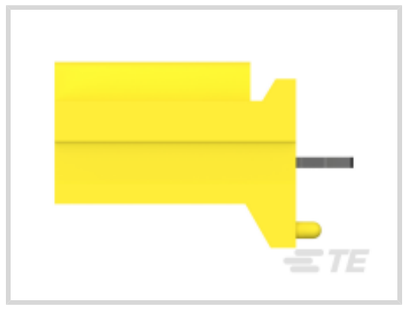
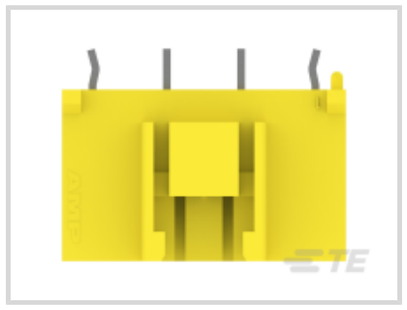
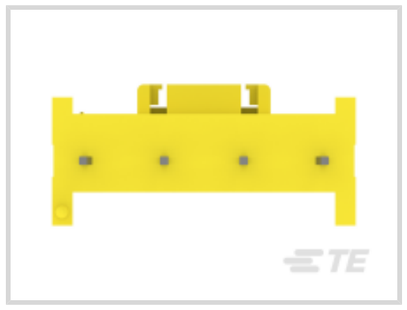
AMP Universal Power

TE Internal #: 2-178841-4

PCB Mount Header, Vertical, Wire-to-Board, 4 Position, 6.2 mm [.244 in] Centerline, Fully Shrouded, Tin (Sn), AMP Universal Power

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles


PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **4**

Centerline (Pitch): **6.2 mm [ .244 in ]**

## Features

### Product Type Features

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

### Configuration Features

| | |
|---|---|
| Number of Columns | 4 |
| Number of Loaded Positions | 4 |
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation | Vertical |
| Number of Positions | 4 |
| Number of Rows | 1 |

| | |
|---|---|
| Number of Power Positions | 4 |

## Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 300 VAC |

## Body Features

| | |
|---|---|
| Primary Product Color | Yellow |

## 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 |
| 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 | Copper Alloy |
| Mating Tab Thickness | .64 mm[.025 in] |
| Contact Mating Area Plating Material | Tin (Sn) |
| Contact Mating Area Plating Material Finish | Bright |
| Contact Mating Area Plating Material Thickness | 1 µm[39.37 µin] |
| Contact Type | Tab |
| Contact Current Rating (Max) | 12 A |
| PCB Contact Termination Area Plating Material | Tin |

## Termination Features

| | |
|---|---|
| Rectangular Termination Post & Tail Width | .64 mm[.025 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 Alignment Type | Polarization |
| PCB Mount Retention Type | Kinked |

| | |
|---|---|
| PCB Mount Alignment Type | Boss |
| PCB Mount Alignment | With |
| Mating Retention | With |
| PCB Mount Retention | With |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |

### Housing Features

| | |
|---|---|
| Mating Entry Location | Top |
| Centerline (Pitch) | 6.2 mm[.244 in] |
| Housing Material | Nylon 6/6 GF |

### Dimensions

| | |
|---|---|
| Connector Width | 11 mm[.433 in] |
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |
| Connector Height | 14.3 mm[.563 in] |
| Connector Length | 23.7 mm[.933 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 | 180 |
| Packaging Method | Tray |

## 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 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<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 # 4-178842-1
AMP U/P SGL ROW PLUG HSG 4P

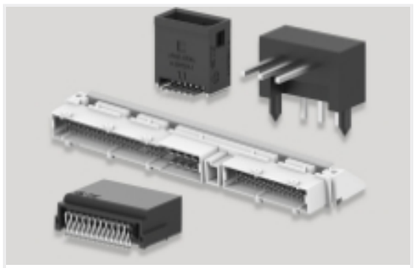


TE Part # 4-178842-4
AMP U/P SGL ROW PLUG HSG 4P

## Also in the Series | AMP Universal Power



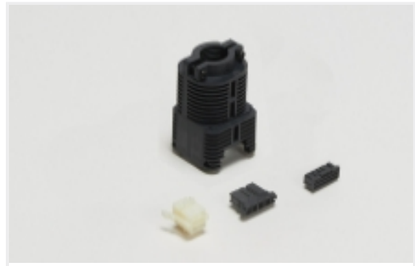
Connector Contacts(22)



PCB Headers & Receptacles(51)



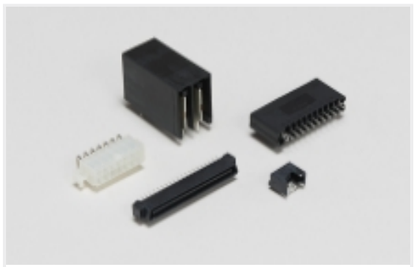
Power Contacts(21)



Rectangular Connector Housings(112)



Rectangular Power Connectors(163)

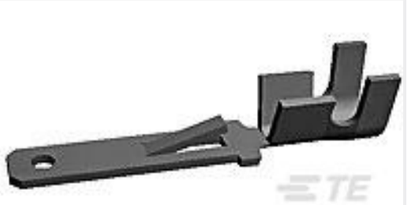


Standard Rectangular Connectors(112)

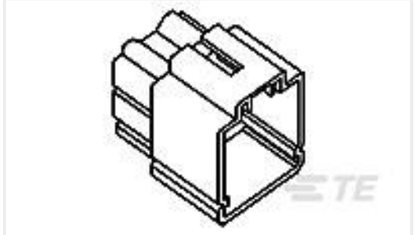


Wire-to-Board Connector Assemblies & Housings(13)

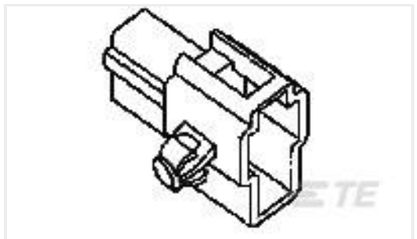
## Customers Also Bought



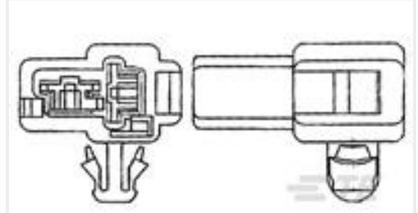
TE Part #170030-5
FF 250 TAB 20-14AWG PTBR



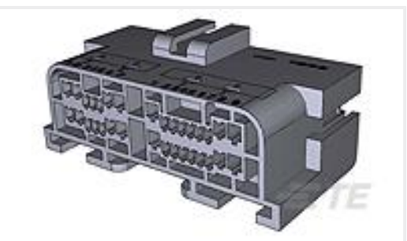
TE Part #172227-1
FF 250 REC HSG 9P NYLON NAT



TE Part #172383-5
FF 250 REC HSG 2P NYLON BLUE P/M



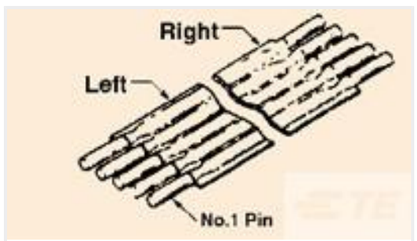
TE Part #176992-2
250 DBL LOCK CAP IKEI 2P BLACK



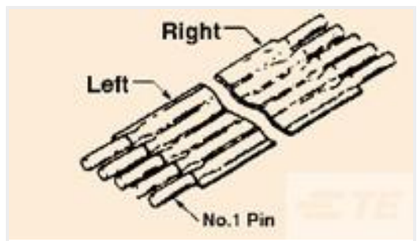
TE Part #178688-2
NSCC CAP HSG ASSY 32P BLACK



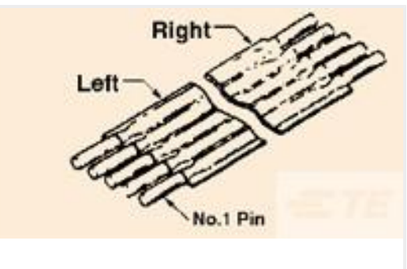
TE Part #316157-2
SEAL RUBBER 2P SEALED D/MIRROR




TE Part #9-1437139-1
FSN-21A-27=NOMEX FS STD




TE Part #3-1437142-9
FSN-22A-19="JUMPER NOMEX, STD.




TE Part #1447186-8
FSN-22.5A-31=JUMPER NOMEX



TE Part #CP4914-000
ES2000-NO.2-B9-0-60MM-SH

## Documents

### Product Drawings

AMP U/P SGL ROW HDR ASSY V 4P

Japanese

### CAD Files

3D PDF

English

### Customer View Model

ENG_CVM_2-178841-4_E.3d_igs.zip

English

### Customer View Model

ENG_CVM_2-178841-4_E.3d_stp.zip

English

### Customer View Model

ENG_CVM_2-178841-4_E.2d_dxf.zip

English

3D PDF

3D

### Customer View Model

ENG_CVM_CVM_2-178841-4_H.2d_dxf.zip

English

### Customer View Model

ENG_CVM_CVM_2-178841-4_H.3d_igs.zip

English

### Customer View Model

ENG_CVM_CVM_2-178841-4_H.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

## Product Specifications

### Crimping of Universal Power Contact

English

### Product Specification

Japanese

### AMP Universal Power Connector

Japanese

## Instruction Sheets

### AMP UNIVERSAL POWER CONNECTOR SERIES

English

### Instruction Sheet (non U.S.)

English

## Agency Approvals

### UL Report

English