

1-176975-1 ✓ ACTIVE

AMP Universal Power

TE Internal #: 1-176975-1

PCB Mount Header, Vertical, Wire-to-Board, 2 Position, 3.96 mm [.155 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, AMP Universal Power

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Connectors > PCB Connectors > PCB Headers & Receptacles



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

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

PCB Mount Orientation: **Vertical**

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	2
Number of Loaded Positions	2
Number of Power Positions	2



Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	2
Number of Rows	1

Electrical Characteristics

Operating Voltage	50 VAC
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Body Features

Primary Product Color	Natural
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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]
Contact Shape & Form	Rectangular
PCB Contact Termination Area Plating Material Thickness	1 μm [39.37 μin]
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)	12 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
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Mating Retention Type	Locking Latch
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Mating Retention	With
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PCB Mount Retention Type	Kinked
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PCB Mount Retention	With
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PCB Mount Alignment	Without
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Connector Mounting Type	Board Mount
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Mating Alignment	Without
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Housing Features

Mating Entry Location	Top
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Housing Material	Nylon 6/6 GF
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Centerline (Pitch)	3.96 mm [.155 in]
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Dimensions

Connector Width	9.9 mm [.39 in]
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PCB Thickness (Recommended)	1.6 mm [.063 in]
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Connector Height	14 mm [.551 in]
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Connector Length	9.06 mm [.357 in]
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Usage Conditions

Operating Temperature (Max)	105 °C [221 °F]
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Operating Temperature Range	-30 – 105 °C [-22 – 221 °F]
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Operation/Application

Circuit Application	Power
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Industry Standards

Glow Wire Rating	Standard Part - Not Glow Wire
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UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	400
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Packaging Method	Bag
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Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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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



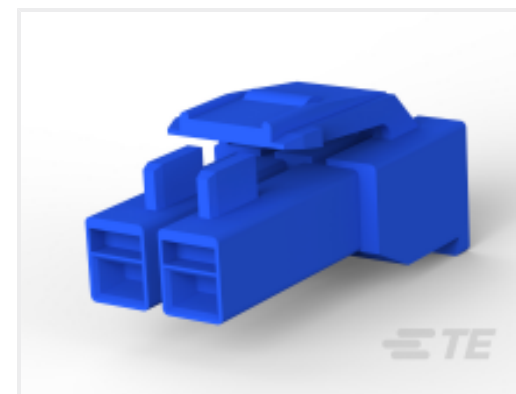
TE Part # 176271-1
AMP UNIVERSAL POWER PLUG 2P



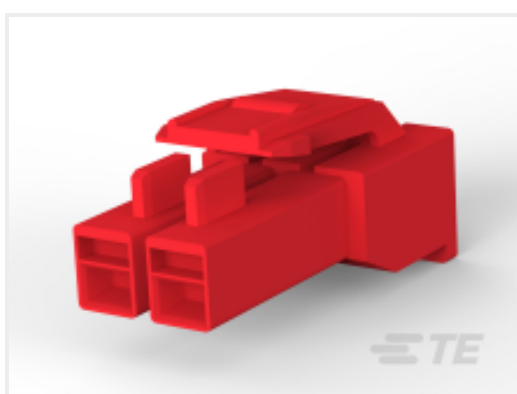
TE Part # 176271-4
AMP UNIVERSAL POWER PLUG 2P



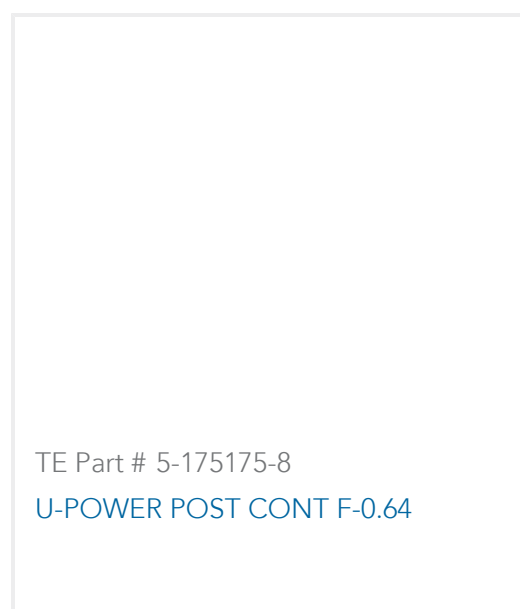
TE Part # 176271-9
AMP UNIVERSAL POWER PLUG 2P



TE Part # 176271-6
AMP UNIVERSAL POWER PLUG 2P



TE Part # 176271-2
AMP UNIVERSAL POWER PLUG 2P

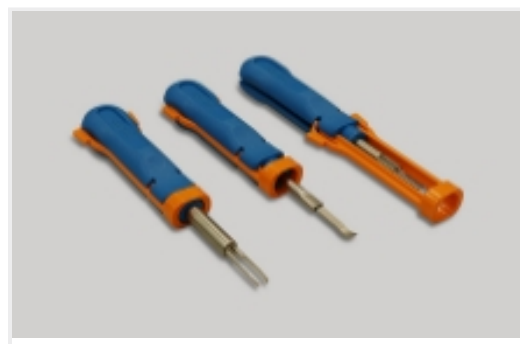


TE Part # 5-175175-8
U-POWER POST CONT F-0.64

Also in the Series | [AMP Universal Power](#)



Connector Contacts(22)



Insertion & Extraction Tools(1)

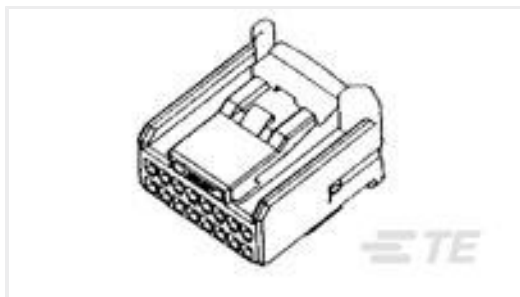


PCB Headers & Receptacles(51)

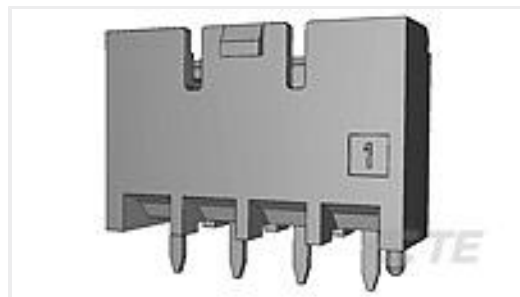


Rectangular Power Connectors(112)

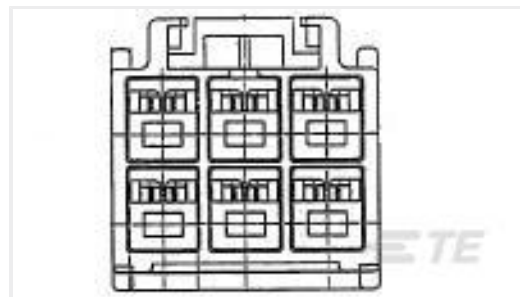
Customers Also Bought



TE Part #1318386-2
025 16P PLUG HSG ASSY H-TYP



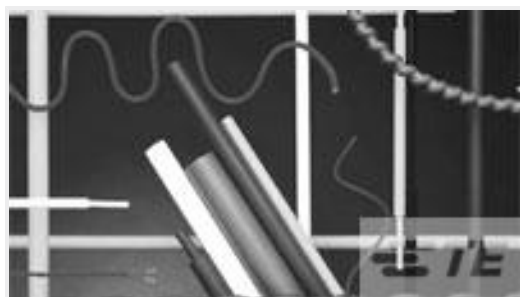
TE Part #1376387-1
5mm B-T-W Conn. 6P(2row) HDR A



TE Part #176285-1
AMP UNIVERSAL POWER CAP 6P



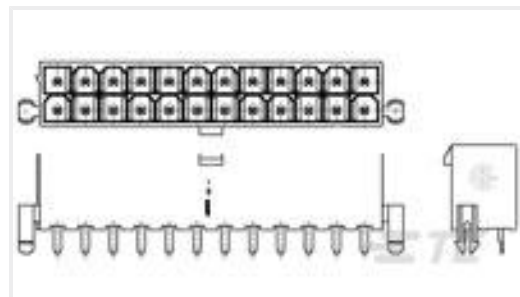
TE Part #6-535541-4
16 MODIV VRT SR CE 100/115



TE Part #3913464001
CGPT-25.4/12.7-2-FSP



TE Part #178497-1
UNIV. POWER HDR H 4P 3.96MM NA



TE Part #1-1586040-2
12P VAL-U-LOK VRT HDR W/P V0



TE Part #1-2324245-0
ASSY,HDR,VERT,GWT,BOSSD,DUAL ROW, EP2.5

Documents

Product Drawings

[AMP UNIVERSAL POWER PLG 2P PCB](#)

Japanese

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1-176975-1_F.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-176975-1_F.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-176975-1_F.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