

176280-1 ✓ ACTIVE

AMP Universal Power

TE Internal #: 176280-1

Rectangular Power Connectors, Housing, Plug, Wire-to-Wire, 18

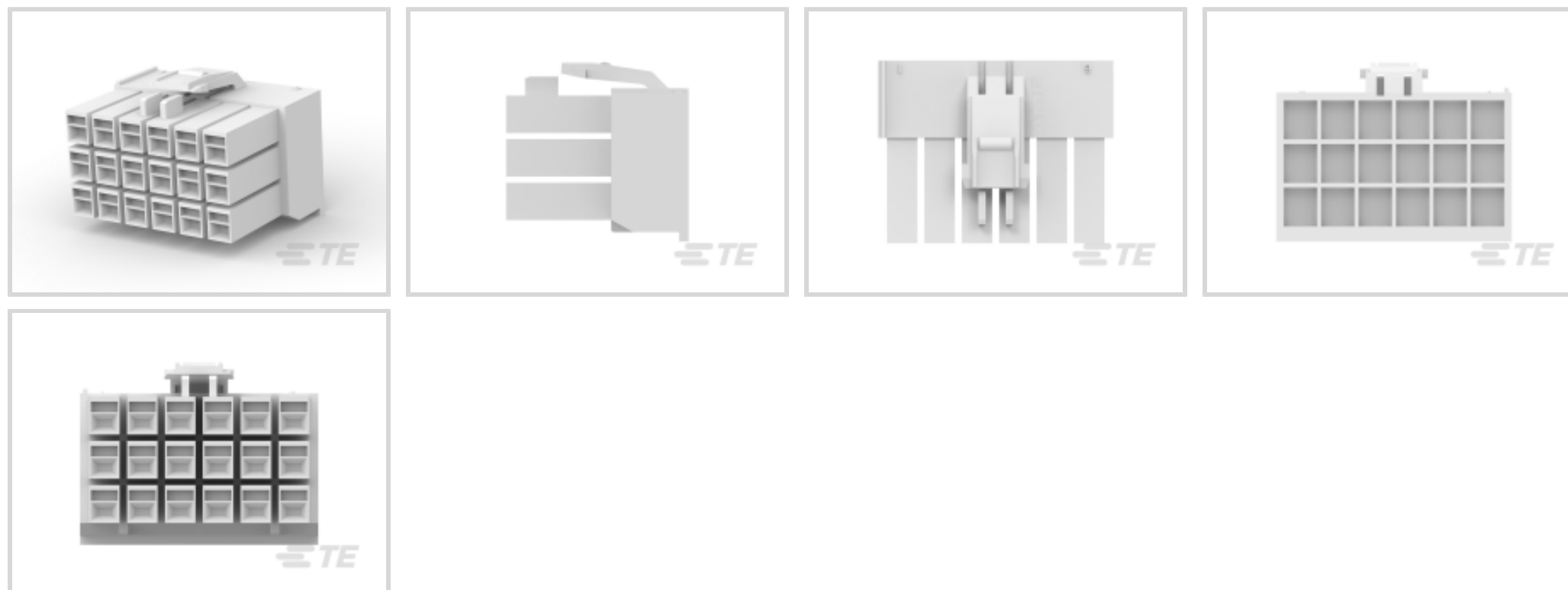
Position, 3.96 mm [.156 in] Centerline, Wire & Cable, UL 94V-0, AMP

Universal Power

[View on TE.com >](#)



Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Plug**

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

Number of Positions: **18**

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

Features

Product Type Features

Rectangular Power Connector Type	Housing
Connector & Housing Type	Plug
Connector System	Wire-to-Wire
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Positions	18
Number of Rows	3

Electrical Characteristics

Operating Voltage	300 VAC
Insulation Resistance	1000 MΩ

Contact Features

Contact Layout	Matrix
Contact Base Material	Copper Alloy



Contact Current Rating (Max)	7 A
Contact Retention Within Housing	Without
Contact Type	Receptacle

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

Strain Relief	Without
Mating Alignment Type	Polarization
Mating Alignment	With
Panel Mount Feature	Without
PCB Mount Retention	Without
Connector Mounting Type	Cable Mount (Free-Hanging)
Mating Retention	With
Mating Retention Type	Latch

Housing Features

Centerline (Pitch)	3.96 mm [.156 in]
Housing Color	Natural
Housing Material	Nylon 6/6

Dimensions

Row-to-Row Spacing	4.6 mm [.181 in]
Height	16.3 mm [.64 in]
Length	19.3 mm [.76 in]

Usage Conditions

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

Circuit Application	Power & Signal
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Industry Standards

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

Packaging Features

Packaging Method	Bag
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Packaging Quantity 500

Other

For Use With Cap Housing

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) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

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



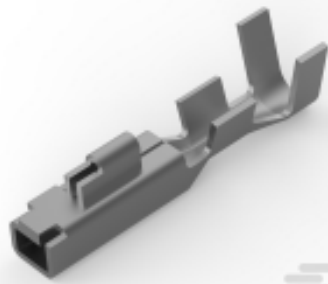
TE Part # 176291-1
UNIV POWER CAP HSG 18P F/H



TE Part # 175156-2
U/P REC CONT L/P













TE Part # 175155-1
UNIV POWER REC CONT L/P



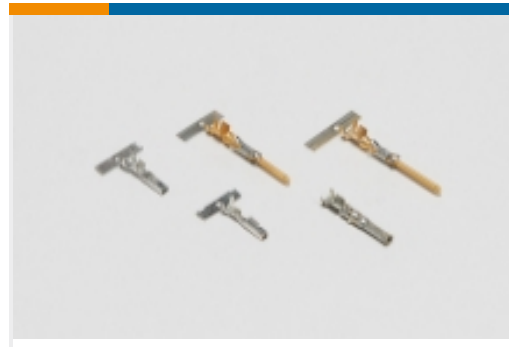



TE Part # 175151-1
AMP UNIVERSAL POWER REC CONT.



 <p>TE Part # 175152-1 UNIVERSAL POWER REC</p>	 <p>TE Part # 175152-2 AMP UNIVE. POWER CONN REC CONT</p>	 <p>TE Part # 175151-2 AMP UNIVE. POWER CONN REC CONT</p>	 <p>TE Part # 175155-2 U/P REC CONT L/P</p>
 <p>TE Part # 175156-1 UNIV POWER REC CONT L/P</p>	 <p>TE Part # 176301-1 UNVI POWER CAP HSG 18P PNL MTG</p>	 <p>TE Part # 175151-5 AMP UNIVERSAL POWER CONN.REC C</p>	 <p>TE Part # 176291-9 UNIV POWER CAP HSG 18P F/H C</p>
 <p>TE Part # 175151-4 UNIVESAL POWER REC CONT #26-22</p>	 <p>TE Part # 175152-3 UNIV POWER REC CONT</p>	 <p>TE Part # 175152-4 UNIVESAL POWER REC CONT #20-16</p>	

Also in the Series | **AMP Universal Power**

 <p>Connector Contacts(1)</p>	 <p>Insertion & Extraction Tools(1)</p>	 <p>Power Contacts(21)</p>	 <p>Rectangular Power Connectors(177)</p>
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Documents

[CAD Files](#)

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG_CVM_CVM_176280-1_E.2d_dxf.zip](#)

[English](#)

[Customer View Model](#)

[ENG_CVM_CVM_176280-1_E.3d_igs.zip](#)



English

Customer View Model

[ENG_CVM_CVM_176280-1_E.3d_stp.zip](#)

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Customer View Model

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English

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Product Specifications

Crimping of Universal Power Contact

English

Product Specification

Japanese

AMP Universal Power Connector

Japanese

Product Environmental Compliance

[MD_176280-1_01212015216_dmtec](#)

English

[MD_176280-1_01212015216_dmtec](#)

English

Instruction Sheets

AMP UNIVERSAL POWER CONNECTOR SERIES

English

Instruction Sheet (non U.S.)

English

Agency Approvals

UL Report

English