



Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **12**

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

Features

Product Type Features

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

Configuration Features

|                     |    |
|---------------------|----|
| Number of Positions | 12 |
| Number of Rows      | 3  |

Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Insulation Resistance | 1000 MΩ |
| Operating Voltage     | 300 VAC |

Contact Features

|                       |              |
|-----------------------|--------------|
| Contact Layout        | Matrix       |
| Contact Base Material | Copper Alloy |



|                                  |         |
|----------------------------------|---------|
| Contact Current Rating (Max)     | 7 A     |
| Contact Retention Within Housing | Without |
| Contact Type                     | Tab     |

Termination Features

|                                    |       |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

Mechanical Attachment

|                         |              |
|-------------------------|--------------|
| Strain Relief           | Without      |
| Mating Alignment Type   | Polarization |
| Mating Retention        | With         |
| Mating Alignment        | With         |
| Panel Mount Feature     | With         |
| PCB Mount Retention     | Without      |
| Mating Retention Type   | Latch        |
| Connector Mounting Type | Panel Mount  |

Housing Features

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

Dimensions

|                    |                  |
|--------------------|------------------|
| Connector Height   | 17.6 mm [.69 in] |
| Product Length     | 29 mm [1.14 in]  |
| Row-to-Row Spacing | 4.6 mm [.181 in] |

Usage Conditions

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

Operation/Application

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

Industry Standards

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

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 500 |
|--------------------|-----|



Packaging Method

Package

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 2023 (235)<br>Candidate List Declared Against: JUNE 2023 (235)<br>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 # 176278-9  
UNIV POWER PLUG HSG 12P F/H



TE Part # 175153-1  
UNIV POWER TAB CONT L/P

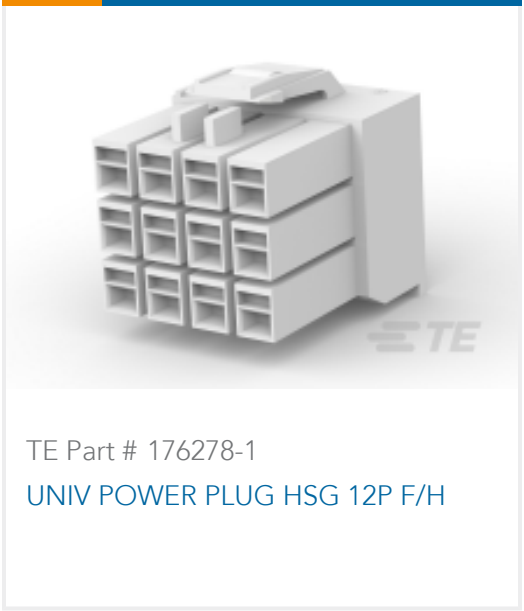


TE Part # 175149-1  
UNIVERSAL POWER CONN TAB



TE Part # 175150-1  
UNIVERSAL POWER CONN TAB

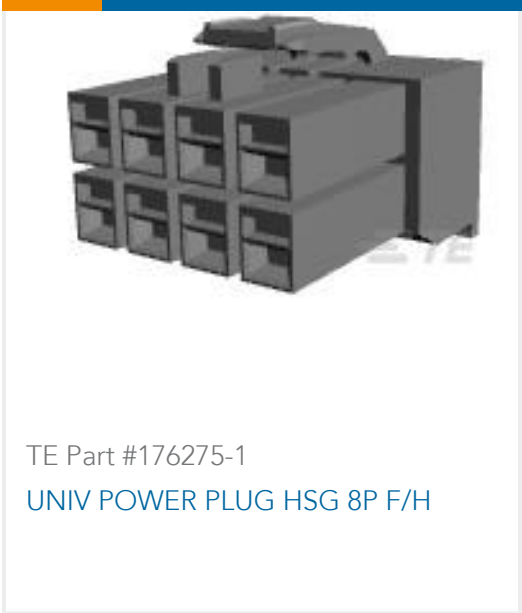
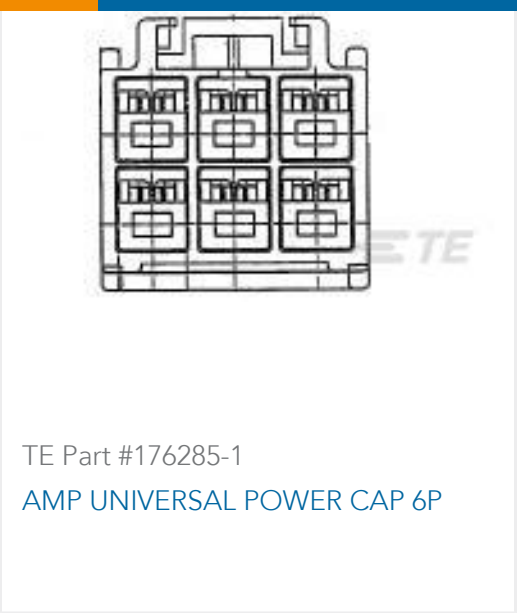
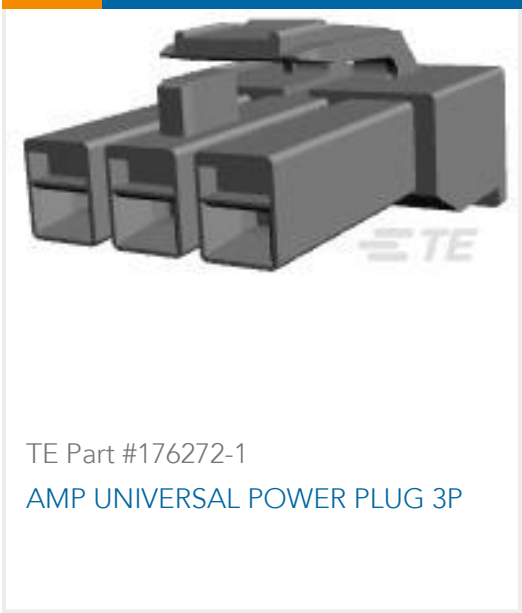


|                                                                                                                                                |                                                                                                                                                 |                                                                                                                                                   |                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 175149-2<br/>AMP UNIVE. POWER CONN TAB CONT</p> |  <p>TE Part # 175150-2<br/>AMP UNIVE. POWER CONN TAB CONT</p> |  <p>TE Part # 175153-2<br/>U/P TAB CONT L/P</p>                |  <p>TE Part # 175154-1<br/>UNIV POWER TAB CONT L/P</p> |
|  <p>TE Part # 175154-2<br/>U/P TAB CONT L/P</p>              |  <p>TE Part # 176278-1<br/>UNIV POWER PLUG HSG 12P F/H</p>   |  <p>TE Part # 175149-3<br/>AMP UNIVERSAL POWER CONN.TAB C</p> |                                                                                                                                           |

Also in the Series | AMP Universal Power

|                                                                                                                   |                                                                                                                                 |                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|  <p>Connector Contacts(22)</p> |  <p>Insertion &amp; Extraction Tools(1)</p> |  <p>Rectangular Power Connectors(163)</p> |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

Customers Also Bought

|                                                                                                                                              |                                                                                                                                                 |                                                                                                                                                  |                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part #176275-1<br/>UNIV POWER PLUG HSG 8P F/H</p>  |  <p>TE Part #176295-1<br/>UNIV POWER CAP HSG 6P P/MOUNT</p> |  <p>TE Part #176286-1<br/>UNIV POWER CAP HSG 8P F/H</p>     |  <p>TE Part #176285-1<br/>AMP UNIVERSAL POWER CAP 6P</p> |
|  <p>TE Part #176272-1<br/>AMP UNIVERSAL POWER PLUG 3P</p> |  <p>TE Part #175150-1<br/>UNIVERSAL POWER CONN TAB</p>      |  <p>TE Part #176293-1<br/>UNIV POWER CAP HSG 3P P/MOUNT</p> |                                                                                                                                               |



Documents

Product Drawings

UNVI POWER CAP HSG 12P PNL MTG

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_176299-1\_E.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_176299-1\_E.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_176299-1\_E.3d\_stp.zip

English

3D PDF

English

Customer View Model

ENG\_CVM\_176299-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_176299-1\_A.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_176299-1\_A.2d\_dxf.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

176299-1

Rectangular Power Connectors, Housing, Receptacle, Wire-to-Wire, 12 Position, 3.96 mm [.156 in] Centerline, Wire & Cable, AMP Universal Power



[UL Report](#)

English