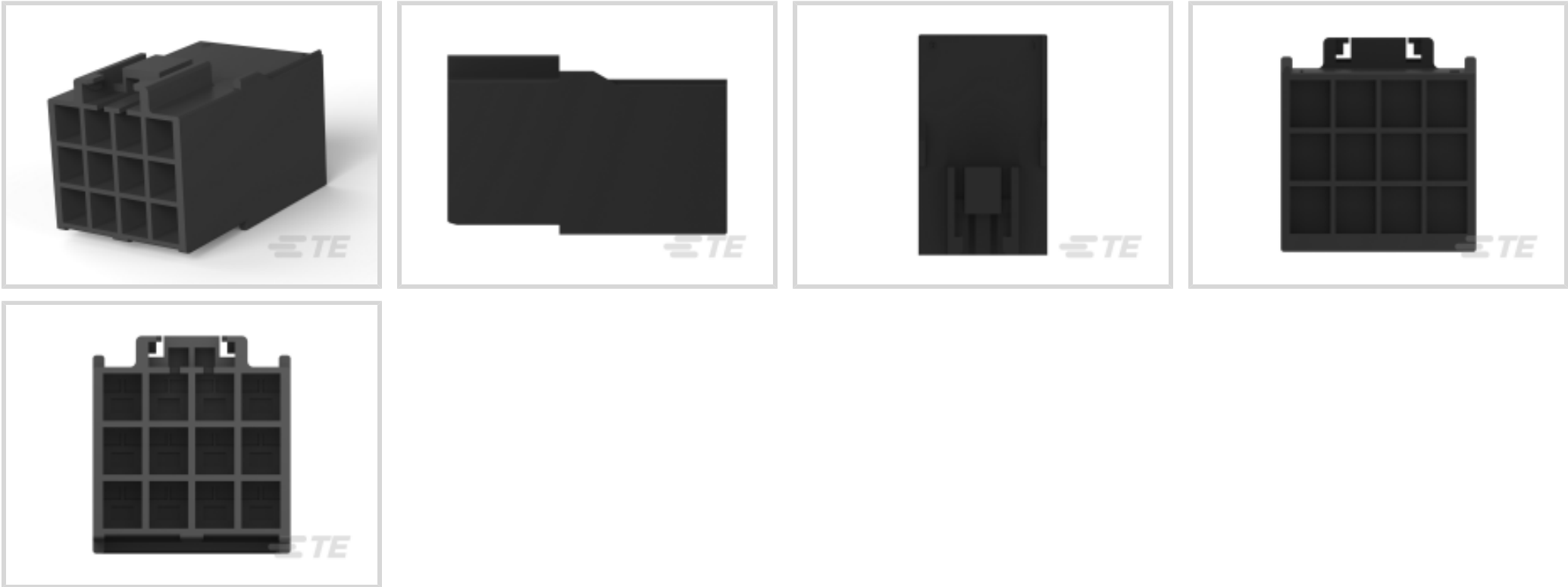




Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



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

|                       |         |
|-----------------------|---------|
| 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                     | Tab     |

Termination Features

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

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      | Black            |
| Housing Material   | Nylon 6/6        |

Dimensions

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



Packaging Quantity

500

Other

|              |              |
|--------------|--------------|
| For Use With | Plug 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)<br>Candidate List Declared Against: JAN 2022 (223)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| 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 # 175149-1  
UNIVERSAL POWER CONN TAB

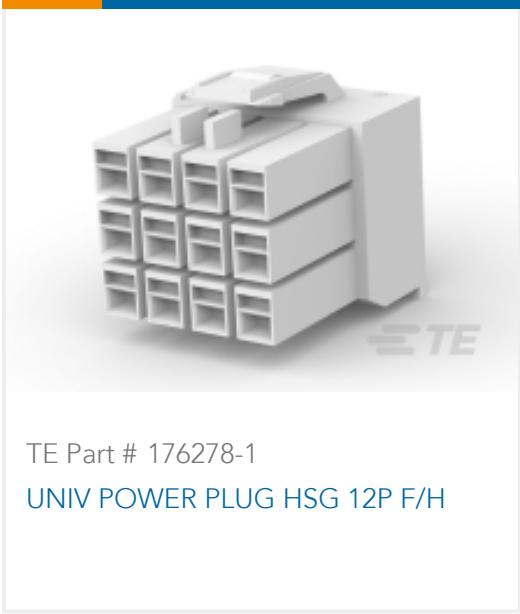


TE Part # 175150-1  
UNIVERSAL POWER CONN TAB

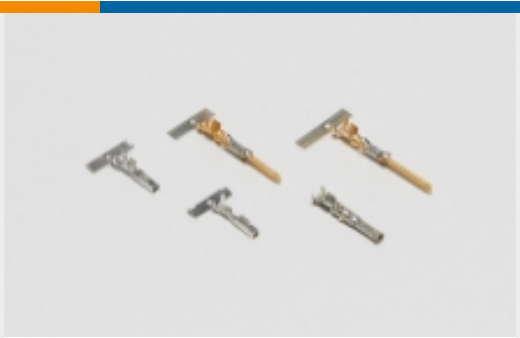


TE Part # 175149-2  
AMP UNIVE. POWER CONN TAB CONT

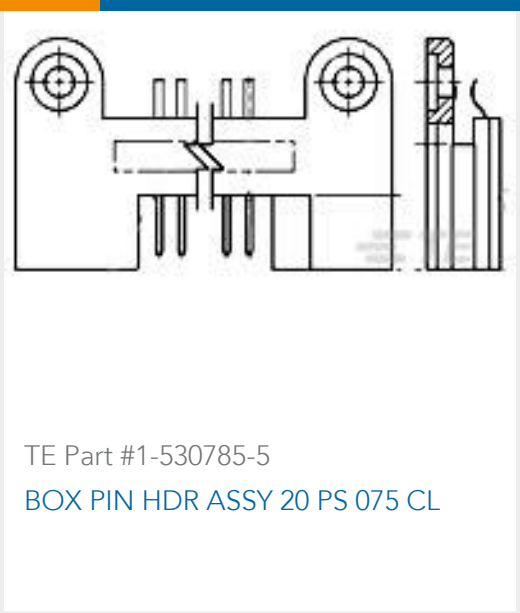
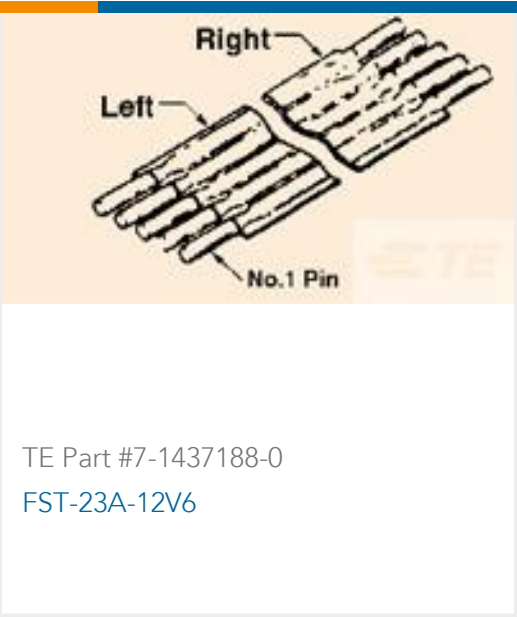


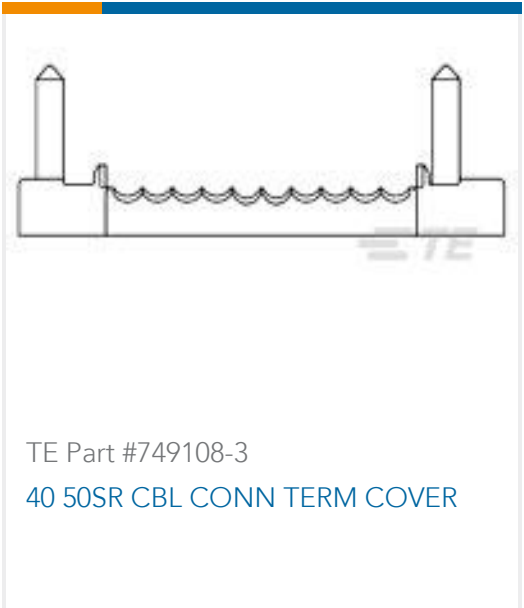
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|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|  <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 # 175153-1<br/>UNIV POWER TAB CONT L/P</p> |  <p>TE Part # 175149-3<br/>AMP UNIVERSAL POWER CONN.TAB C</p> |  <p>TE Part # 176278-4<br/>UNIV POWER PLUG HSG 12P F/H</p> |

Also in the Series | AMP Universal Power

|                                                                                                                  |                                                                                                                                 |                                                                                                                 |                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|  <p>Connector Contacts(1)</p> |  <p>Insertion &amp; Extraction Tools(1)</p> |  <p>Power Contacts(21)</p> |  <p>Rectangular Power Connectors(177)</p> |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

Customers Also Bought

|                                                                                                                                                         |                                                                                                                                                     |                                                                                                                                                    |                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part #917688-4<br/>SIGNAL DOUBLE LOCK PLUG HSG 4P YELLOW</p>  |  <p>TE Part #1-5767007-2<br/>MICT,260PLUG,190,ASSY,.025,REC</p> |  <p>TE Part #1-530785-5<br/>BOX PIN HDR ASSY 20 PS 075 CL</p> |  <p>TE Part #2-2178029-5<br/>STD TIMER GEH 5P_V0</p> |
|  <p>TE Part #2334530-4<br/>MBPLUS,R/A,PLUG,SOLDER,5LP + 24S + 2P</p> |  <p>TE Part #5-1633860-1<br/>CRIMPER, WIRE F</p>                |  <p>TE Part #8682963001<br/>55A0112-24-2</p>                  |  <p>TE Part #7-1437188-0<br/>FST-23A-12V6</p>        |



Documents

Product Drawings

UNIV POWER CAP HSG 12P F/H

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_176289-9\_G.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_176289-9\_G.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_176289-9\_G.3d\_stp.zip

English

3D PDF

English

Customer View Model

ENG\_CVM\_176289-9\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_176289-9\_A.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_176289-9\_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](#)  
[UL Report](#)

English