

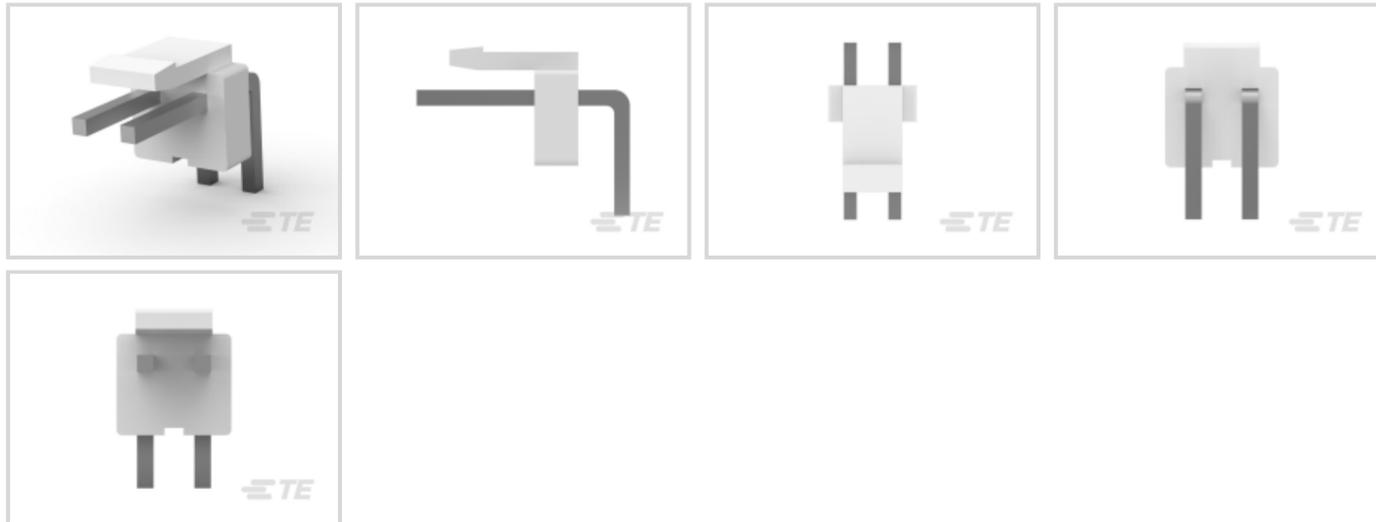
**Economy Power**

TE Internal #: 647676-2

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 2  
Position, 3.96 mm [.156 in] Centerline, Printed Circuit Board, UL 94V-  
0, Economy Power

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Connectors &gt; Power Connectors &gt; Rectangular Power &gt; Rectangular Power Connectors

Rectangular Power Connector Type: **Header**Connector & Housing Type: **Plug**Connector System: **Wire-to-Board**Number of Positions: **2**Centerline (Pitch): **3.96 mm [.156 in]****Features****Product Type Features**

Header Type	Partially Shrouded
Rectangular Power Connector Type	Header
Connector & Housing Type	Plug
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

**Configuration Features**

Number of Positions	2
PCB Mount Orientation	Right Angle, Vertical
Number of Power Positions	2
Number of Rows	1

**Electrical Characteristics**

Operating Voltage	250 VAC
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**Body Features**



Connector Profile	Low
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### Contact Features

Contact Layout	Inline
Contact Base Material	Brass
Contact Current Rating (Max)	7.5 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	2.03 $\mu\text{m}$ [80 $\mu\text{in}$ ]

### Termination Features

Termination Post & Tail Length	5.34 mm[.21 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	Without
Connector Mounting Type	Board Mount
Mating Retention	With
Mating Retention Type	Latch

### Housing Features

Centerline (Pitch)	3.96 mm[.156 in]
Housing Color	White
Housing Material	Nylon 66

### Dimensions

Mating Post Length	8.6 mm[.33 in]
Height	9.4 mm[.37 in]
Length	7.92 mm[.312 in]
Width	15.37 mm[.605 in]

### Usage Conditions

Operating Temperature Range	-25 – 105 $^{\circ}\text{C}$ [-13 – 221 $^{\circ}\text{F}$ ]
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### Operation/Application



Circuit Application	Power
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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
Packaging Quantity	1000

### Other

For Use With	Plug Housing
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## 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	Wave solder capable to 265°C

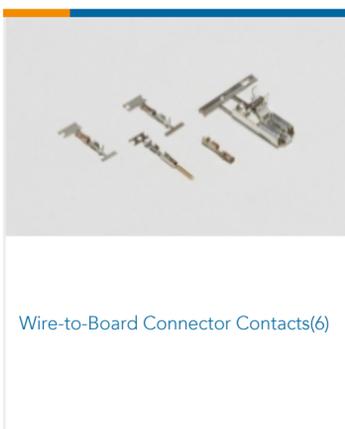
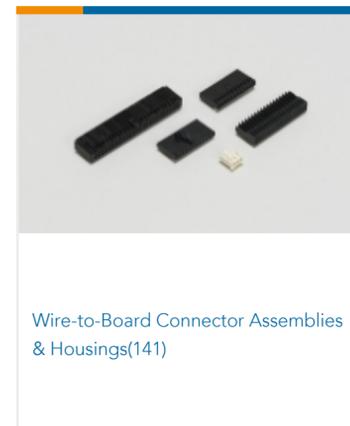
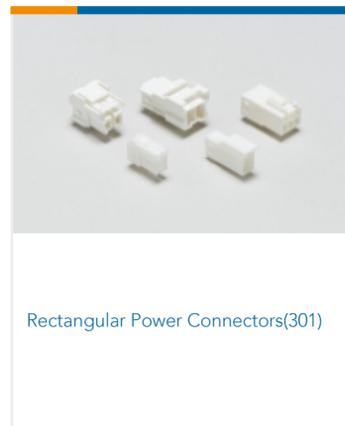
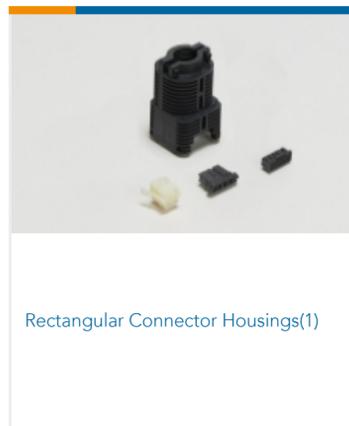
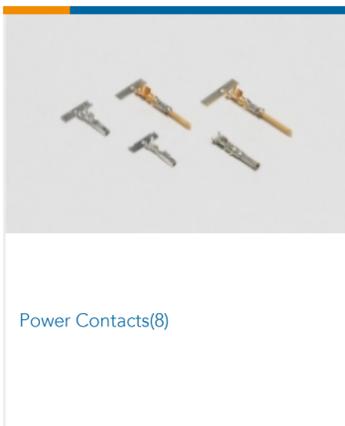
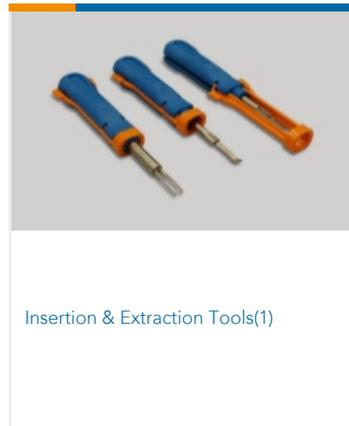
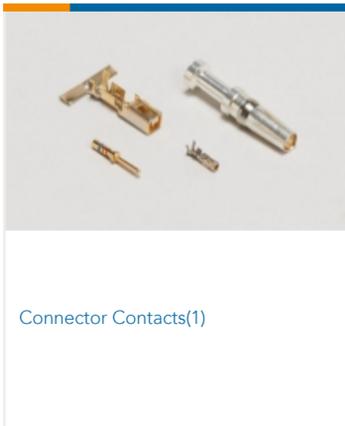
#### Product Compliance Disclaimer

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



## Also in the Series | Economy Power



## Documents

### Product Drawings

3.96 EP HDR ASSY 2P R/A

English

### CAD Files

Customer View Model

ENG\_CVM\_CVM\_647676-2\_B.2d\_dxf.zip

English



**3D PDF**

3D

**Customer View Model**

[ENG\\_CVM\\_CVM\\_647676-2\\_B.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_647676-2\\_B.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

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**Datasheets & Catalog Pages**

[MTA, CST-100 II, SL-156 and AMP Economy Power \(EP\) Connectors](#)

English

[1-1773885-9 Economy Power Connectors](#)

English

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**Product Specifications**

[Application Specification](#)

English

[Application Specification](#)

Japanese