

1744057-8 ✓ ACTIVE



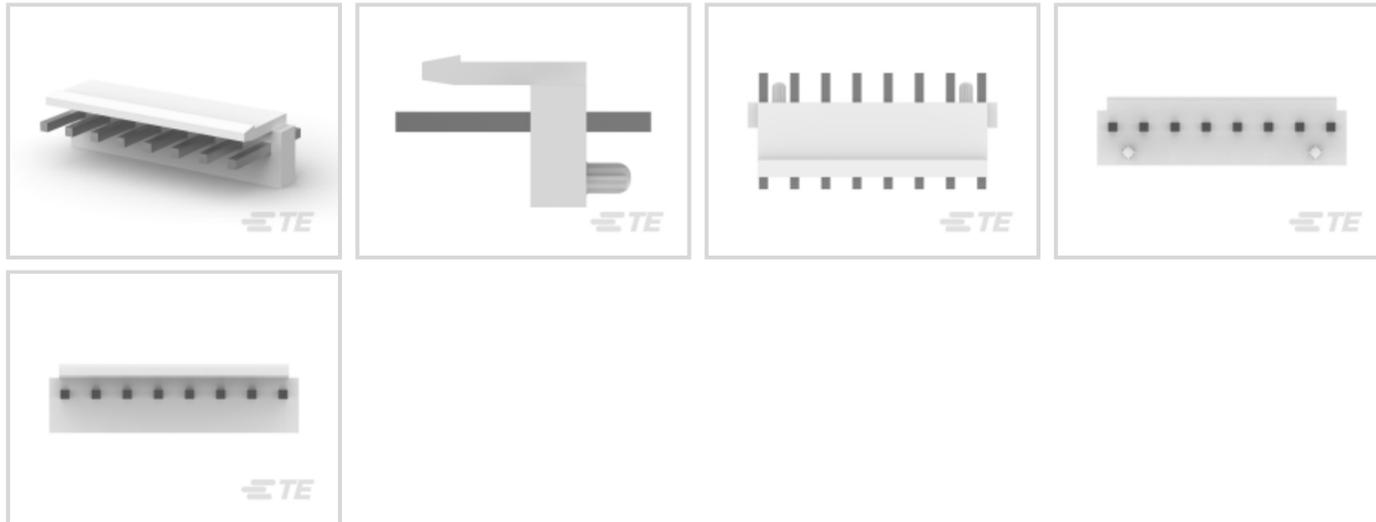
Economy Power

TE Internal #: 1744057-8

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 8 Position, 3.96 mm [.156 in] Centerline, Printed Circuit Board, UL 94V-0, Economy Power

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Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **8**

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       | 8        |
| PCB Mount Orientation     | Vertical |
| Number of Power Positions | 8        |
| Number of Rows            | 1        |

#### Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VAC |
|-------------------|---------|

#### Contact Features



|  |  |
|--|--|
| Contact Layout                                 | Inline   |
| Contact Base Material                          | Brass  |
| Contact Current Rating (Max)                   | 8 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 | 3 $\mu$ m[118.11 $\mu$ in]                         |
| Contact Termination Area Plating Thickness     | .8 $\mu$ m, 2 $\mu$ m[31.49 $\mu$ in][80 $\mu$ in] |

### Termination Features

|   |                       |
|---|-----------------------|
| Termination Post & Tail Length              | 3.7 mm[.146 in]       |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

### Mechanical Attachment

|                         |                |
|-------------------------|----------------|
| Strain Relief           | Without        |
| Mating Alignment Type   | Polarizing Tab |
| Mating Alignment        | With           |
| PCB Mount Alignment     | Without        |
| PCB Mount Retention     | With           |
| Connector Mounting Type | Board Mount    |
| Mating Retention        | With           |
| Mating Retention Type   | Latch          |

### Housing Features

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

### Dimensions

|                             |                    |
|-----------------------------|--------------------|
| PCB Thickness (Recommended) | .06 mm[1.6 in]     |
| Width                       | 8.2 mm[.323 in]    |
| Mating Post Length          | 7.7 mm[.303 in]    |
| Height                      | 10.9 mm[.429 in]   |
| Length                      | 31.62 mm[1.245 in] |

### Usage Conditions



|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -25 – 105 °C[-13 – 221 °F] |
|-----------------------------|----------------------------|

### Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

### 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 | Receptacle Assembly |
|--------------|---------------------|

## 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: JUNE 2022 (224)<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                     | Wave solder capable to 265°C  |

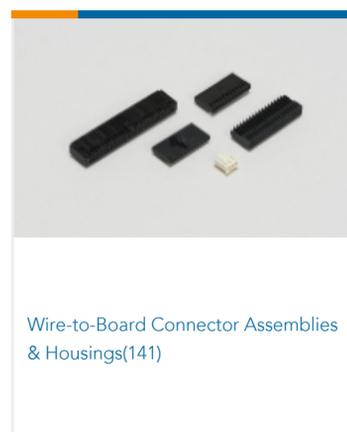
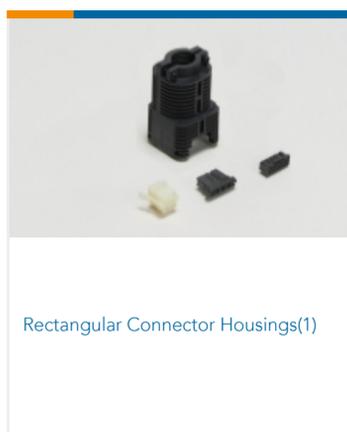
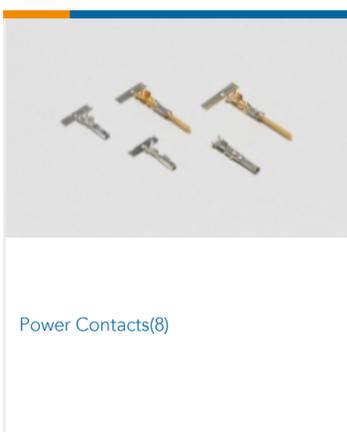
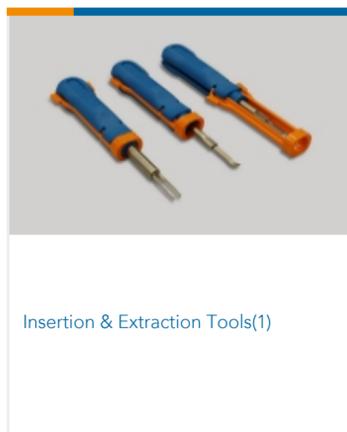
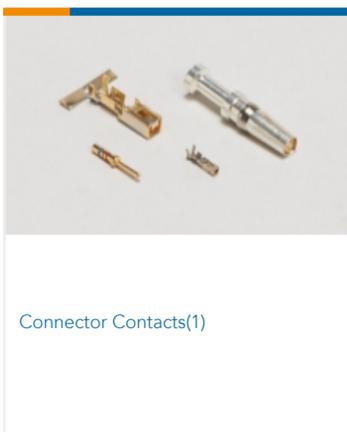
#### Product Compliance Disclaimer

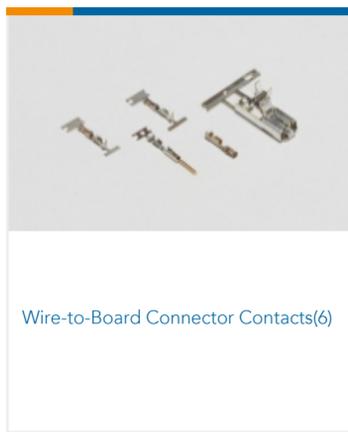
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 8P W/PEGS](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1744057-8\\_C.2d\\_dxf.zip](#)

English

### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1744057-8\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1744057-8\\_C.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

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

English

[7-1773458-5\\_ECONOMY\\_POWER\\_QRG](#)

English

### Product Specifications

[Application Specification](#)

English