



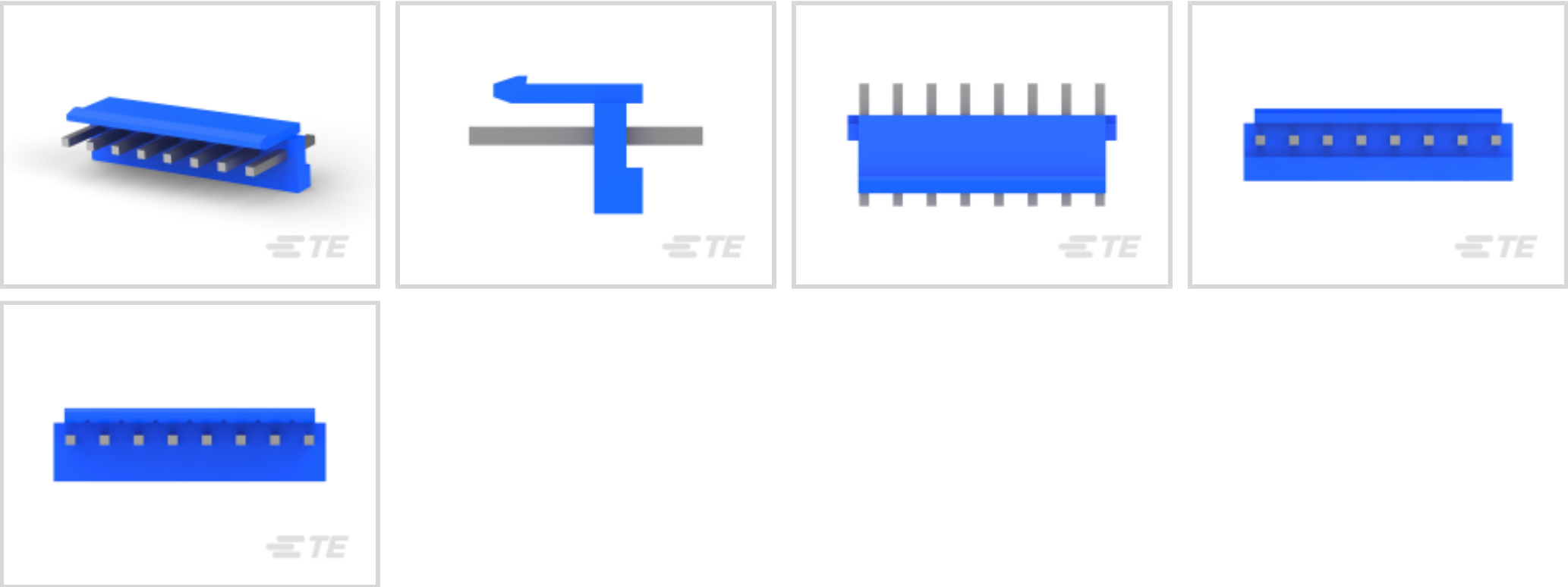
Economy Power

TE Internal #: 3-1123723-8

PCB Mount Header, Vertical, Wire-to-Board, 8 Position, 3.96 mm [.156 in] Centerline, Partially Shrouded, Tin, Through Hole - Solder, Economy Power

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

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

Number of Positions: **8**

Number of Rows: **1**

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

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Connector Shape                   | Rectangular           |
| PCB Connector Assembly Type       | PCB Mount Header      |
| Connector System                  | Wire-to-Board         |
| Header Type                       | Partially Shrouded    |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

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

Electrical Characteristics

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



Body Features

|                       |      |
|-----------------------|------|
| Connector Profile     | Low  |
| Primary Product Color | Blue |

Contact Features

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Contact Mating Area Length                              | 7.7 mm[.303 in]               |
| Contact Size                                            | 1.14mm                        |
| PCB Contact Termination Area Plating Material Thickness | 1 µm[39.37 µin]               |
| Contact Layout                                          | Inline                        |
| Contact Underplating Material Thickness                 | .8 – 1.8 µm[31.5 – 70.86 µin] |
| Contact Mating Area Plating Material Thickness          | 1 µm[39.37 µin]               |
| Contact Shape & Form                                    | Square                        |
| Contact Underplating Material                           | Nickel                        |
| PCB Contact Termination Area Plating Material           | Tin                           |
| Contact Base Material                                   | Brass                         |
| Contact Mating Area Plating Material                    | Tin                           |
| Contact Type                                            | Tab                           |
| Contact Current Rating (Max)                            | 8 A                           |

Termination Features

|                                          |                       |
|------------------------------------------|-----------------------|
| Square Termination Post & Tail Dimension | 1.14 mm[.045 in]      |
| Termination Post & Tail Length           | 3.7 mm[.146 in]       |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

|                         |              |
|-------------------------|--------------|
| Mating Alignment Type   | Polarization |
| Mating Retention        | With         |
| Mating Retention Type   | Locking Tab  |
| Connector Mounting Type | Board Mount  |
| Mating Alignment        | With         |
| PCB Mount Alignment     | Without      |
| PCB Mount Retention     | Without      |

Housing Features

|                    |                  |
|--------------------|------------------|
| Housing Material   | PBT GF           |
| Centerline (Pitch) | 3.96 mm[.156 in] |



Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Connector Length            | 31.62 mm[1.24 in] |
| Connector Height            | 9.2 mm[.36 in]    |
| Connector Width             | 8.5 mm[.334 in]   |
| PCB Thickness (Recommended) | 1.6 mm[.063 in]   |

Usage Conditions

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

Operation/Application

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

Industry Standards

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

Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 1000 |
| Packaging Method   | Bag  |

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 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                  |
| 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

TE Part # 1744416-8  
8 POS EP II HSG, GLOW WIRE

TE Part # 1123721-2  
ECONOMY POWER CONN REC  
CONT

TE Part # 1123721-1  
EP CONN. REC CONTACT

TE Part # 1744497-8  
08P EP-II HOUSING, GREY

TE Part # 3-1123722-8  
3.96 EP PLUG HSG 8P(BLUE)

Also in the Series | Economy Power

Connector Contacts(15)

Connector Hardware(2)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(402)

Rectangular Connector Housings(1)

Rectangular Power Connectors(57)

Wire-to-Board Connector Assemblies  
& Housings(141)



## Customers Also Bought



TE Part #DT04-2P  
REC, 2P, GRY, N



TE Part #DT06-2S  
PLG, 2P, GRY, N



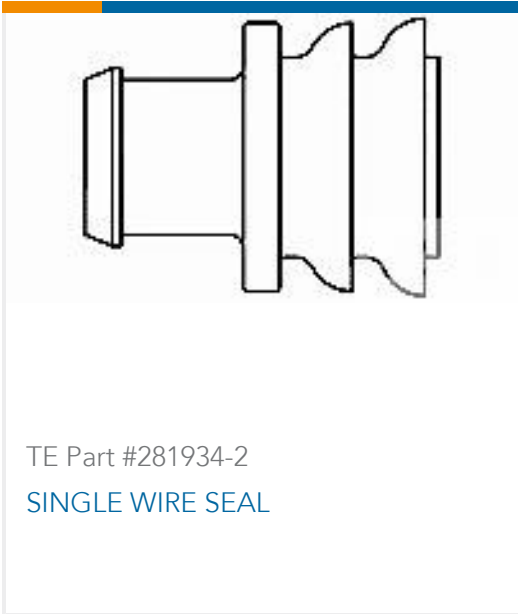
TE Part #W2S  
Wedgelocks: DEUTSCH DT



TE Part #0460-202-16141  
DEUTSCH Solid Contacts



TE Part #282080-1  
AMP SUPERSEAL 1.5MM,  
CONNECTOR HOUSING



TE Part #281934-2  
SINGLE WIRE SEAL

## Documents

Product Drawings  
3.96 EP HDR ASSY 8P(BLUE)  
English

CAD Files  
3D PDF  
3D  
Customer View Model  
ENG\_CVM\_CVM\_3-1123723-8\_AD\_c-3-1123723-8-ad.2d\_dxf.zip  
English  
Customer View Model  
ENG\_CVM\_CVM\_3-1123723-8\_AD\_c-3-1123723-8-ad.3d\_igs.zip  
English  
Customer View Model  
ENG\_CVM\_CVM\_3-1123723-8\_AD\_c-3-1123723-8-ad.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

Product Specifications  
Application Specification  
Japanese  
Application Specification



English

[Application Specification](#)

English

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[Instruction Sheets](#)

[Instruction Sheet \(non U.S.\)](#)

Japanese

[Economy Power \(EP\) Connector](#)

Japanese

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[Agency Approvals](#)

[VDE Certificate](#)

English