



Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: **Wire-to-Board**  
Number of Positions: **10**  
Number of Rows: **1**  
Centerline (Pitch): **3.96 mm [.156 in]**  
PCB Mount Orientation: **Vertical**

Features

Product Type Features

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

Configuration Features

|                            |          |
|----------------------------|----------|
| Number of Power Positions  | 10       |
| Number of Loaded Positions | 9        |
| Number of Positions        | 10       |
| Number of Rows             | 1        |
| PCB Mount Orientation      | Vertical |

Electrical Characteristics

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



Body Features

|                       |         |
|-----------------------|---------|
| Primary Product Color | Natural |
|-----------------------|---------|

Contact Features

|                                                         |                  |
|---------------------------------------------------------|------------------|
| Contact Mating Area Length                              | 7.7 mm[.303 in]  |
| Contact Size                                            | 1.14mm           |
| PCB Contact Termination Area Plating Material Thickness | 3 µm[118.11 µin] |
| Contact Layout                                          | Inline           |
| Contact Underplating Material Thickness                 | 1 µm[39.37 µin]  |
| Contact Mating Area Plating Material Thickness          | 3 µm[118.11 µin] |
| Contact Shape & Form                                    | Square           |
| Contact Mating Area Plating Material Finish             | Matte            |
| 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           | 3.69 mm[.145 in]      |
| Termination Method to PCB                | Through Hole - Solder |

Mechanical Attachment

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

Housing Features

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



Dimensions

|                             |                  |
|-----------------------------|------------------|
| Connector Length            | 39.6 mm[1.55 in] |
| Connector Height            | 9.4 mm[.37 in]   |
| Connector Width             | 8.6 mm[.339 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                          | GWT 750°C (Without Flame) |
| Compatible With Agency/Standards Products | UL                        |
| UL Flammability Rating                    | UL 94V-0                  |

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 500 |
| Packaging Method   | Bag |

Other

|                             |   |
|-----------------------------|---|
| Position Locations Omitted  | 8 |
| Number of Blocked Positions | 1 |

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: JAN 2021 (211)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC                                                 |



Free

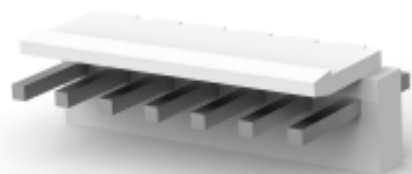
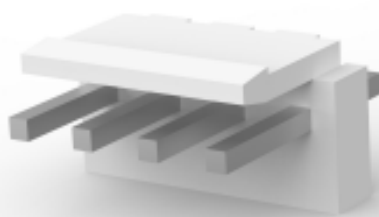
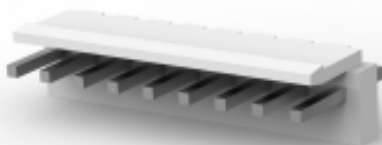
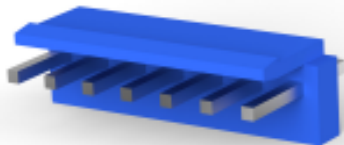
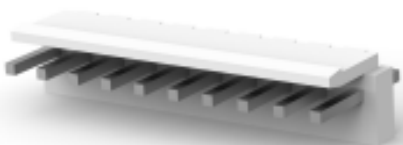
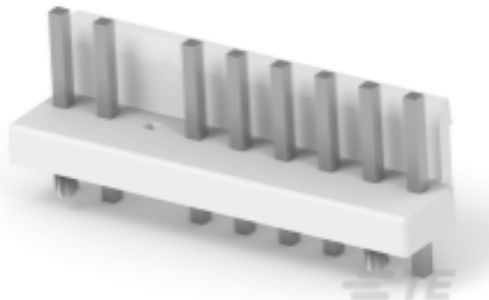
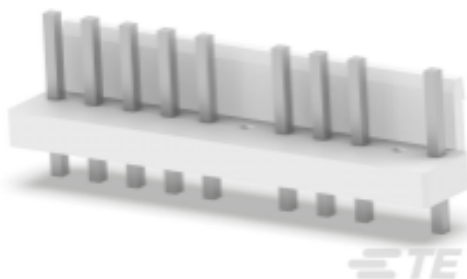
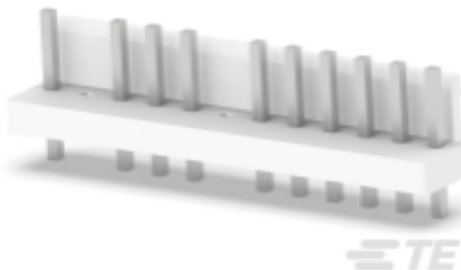
Solder Process Capability

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>

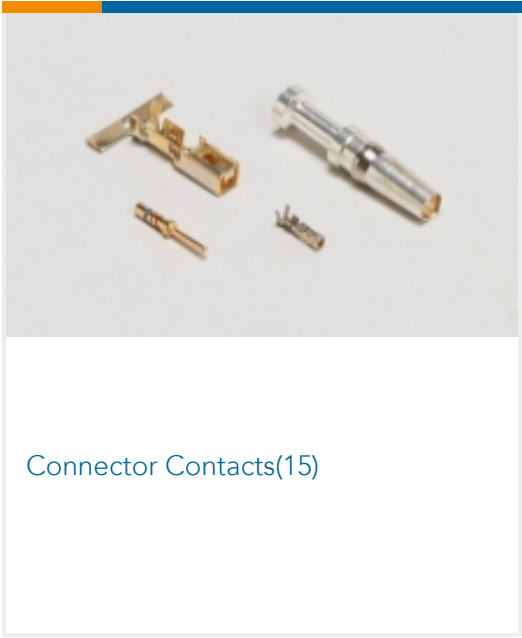
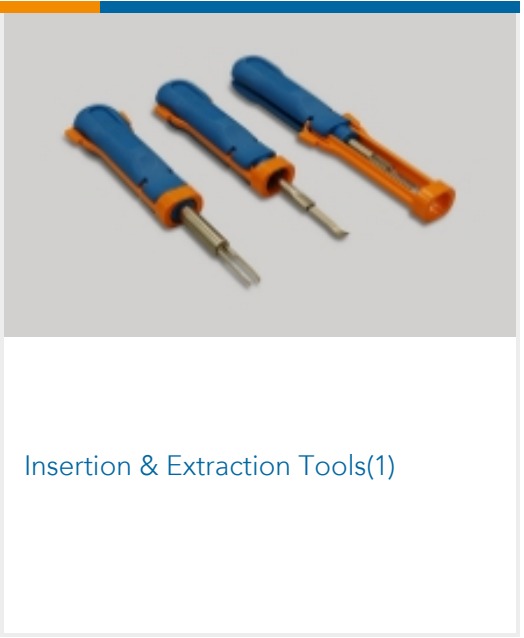
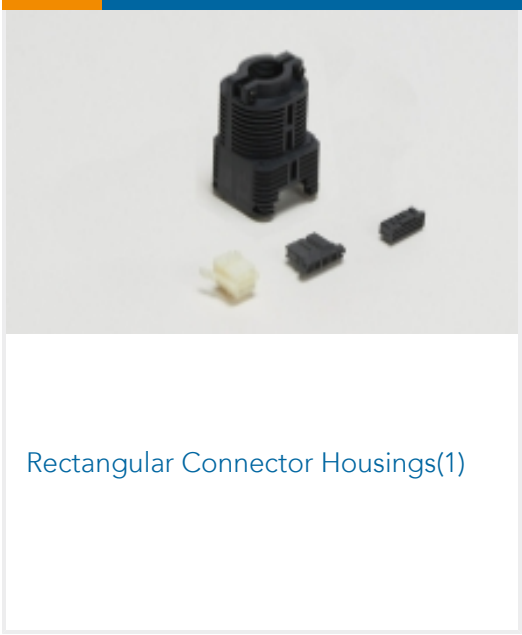
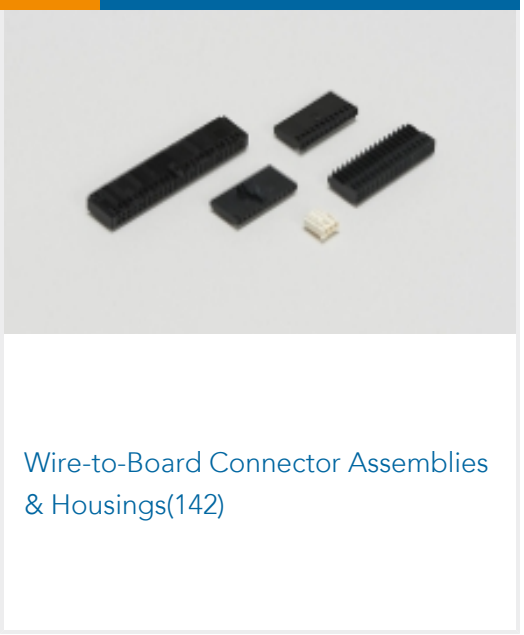
Compatible Parts

|                                                                                                                                                               |                                                                                                                                                       |                                                                                                                                                       |                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 1744429-7<br/>3.96 EP HDR ASSY 7P W/PEGS, GW</p>             |  <p>TE Part # 1-2132781-0<br/>10P EP-II HOUSING, NATURAL</p>       |  <p>TE Part # 1-1744416-0<br/>10 POS EP II HSG, GLOW WIRE</p>    |  <p>TE Part # 1744429-4<br/>3.96 EP HDR ASSY 4P W/PEGS, GW</p>    |
|  <p>TE Part # 1744429-9<br/>3.96 EP HDR ASSY 9P W/PEGS, GW</p>             |  <p>TE Part # 2-1744057-7<br/>3.96 EP HDR ASSY 7P W/PEGS, BLUE</p> |  <p>TE Part # 1-1744036-0<br/>10P ECONOMY POWER .200 CL HSG</p>  |  <p>TE Part # 1-1744429-0<br/>3.96 EP HDR ASSY 10P W/PEGS, GW</p> |
|  <p>TE Part # 1-1744429-9<br/>3.96 EP HDR ASSY 9P W/PEGS, GW, NO PIN 3</p> |  <p>TE Part # 1-1744498-0<br/>10P EP-II HOUSING, BLACK</p>         |  <p>TE Part # 1-1744524-1<br/>EP 11P HEADER ASY NO 6,10 PINS</p> |  <p>TE Part # 1-1744524-2<br/>EP 12P HEADER ASY NO 2,6 PINS</p>   |



|                                                                                                                                              |                                                                                                                                                  |                                                                                                                                                      |                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 1744110-2<br/>EP HDR ASSY 10P, NO #2 PIN</p>  |  <p>TE Part # 1744291-1<br/>EP HDR ASSY 5P W/PEG,NAT,W/0#3</p> |  <p>TE Part # 1744429-2<br/>3.96 EP HDR ASSY 2P W/PEGS, GW</p>    |  <p>TE Part # 1744524-5<br/>EP 05P HEADER ASY NO 2,4 PINS</p> |
|  <p>TE Part # 1744524-6<br/>EP 06P HEADER ASY NO 4 PIN</p> |  <p>TE Part # 2-1744435-8<br/>EP 08P V-HDR ASY NO 3 PIN</p>   |  <p>TE Part # 4-1744057-3<br/>3.96 EP HDR ASSY 3P W/PEGS,YEL</p> |                                                                                                                                                  |

Also in the Series | Economy Power

|                                                                                                                              |                                                                                                                              |                                                                                                                                                     |                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|  <p>Connector Contacts(15)</p>            |  <p>Connector Hardware(2)</p>            |  <p>Insertion &amp; Extraction Tools(1)</p>                    |  <p>PCB Headers &amp; Receptacles(400)</p> |
|  <p>Rectangular Connector Housings(1)</p> |  <p>Rectangular Power Connectors(64)</p> |  <p>Wire-to-Board Connector Assemblies &amp; Housings(142)</p> |                                                                                                                                 |

Customers Also Bought

|                                                                                                                                 |                                                                                                                                  |                                                                                                                                      |                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part #DT04-2P<br/>REC, 2P, GRY, N</p> |  <p>TE Part #DT06-2S<br/>PLG, 2P, GRY, N</p> |  <p>TE Part #W2S<br/>Wedgelocks: DEUTSCH DT</p> |  <p>TE Part #0460-202-16141<br/>DEUTSCH Solid Contacts</p> |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|



Documents

Product Drawings

EP 10P HEADER ASY NO 8 PIN

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1744524-0\_D.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1744524-0\_D.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1744524-0\_D.3d\_stp.zip

English

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

Product Specifications

Application Specification

English

Agency Approvals

VDE Certificate

English