# 1-1744427-2 ✔ ACTIVE

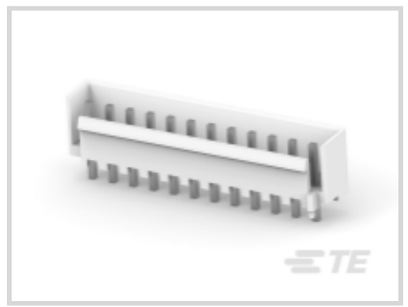
**Economy Power**

TE Internal #: 1-1744427-2

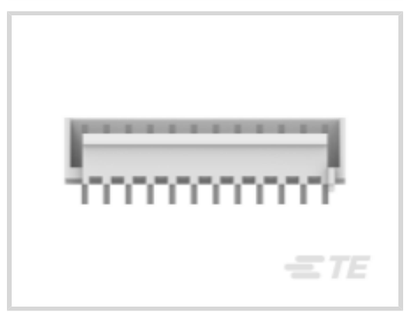
PCB Mount Header, Vertical, Wire-to-Board, 12 Position, 3.96 mm [.156 in] Centerline, Partially Shrouded, Tin, Through Hole - Solder, Economy Power

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles







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

Number of Positions: **12**

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 | 12 |
| Number of Loaded Positions | 12 |
| Number of Positions | 12 |
| Number of Rows | 1 |
| PCB Mount Orientation | Vertical |

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 600 VAC |

## Body Features

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

## Contact Features

| | |
|---|---|
| Contact Mating Area Length | 7.78 mm[.306 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 µm[31.5 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) | 12.3 A |

## Termination Features

| | |
|---|---|
| Square Termination Post & Tail Dimension | 1.14 mm[.045 in] |
| Termination Post & Tail Length | 3.62 mm[.142 in] |
| Termination Method to PCB | Through Hole - Solder |

## Mechanical Attachment

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

## Housing Features

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

## Dimensions

| | |
|---|---|
| Connector Length | 50.77 mm[1.99 in] |
| Connector Height | 12 mm[.472 in] |
| Connector Width | 9.58 mm[.377 in] |

## Usage Conditions

| | |
|---|---|
| Operating Temperature (Max) | 105 °C[221 °F] |
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |

## Operation/Application

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

## Industry Standards

| | |
|---|---|
| Glow Wire Rating | GWT 750°C (Without Flame) |
| UL Flammability Rating | UL 94V-2 |

## Packaging Features

| | |
|---|---|
| Packaging Quantity | 150 |
| 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: JAN 2021 (211)<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

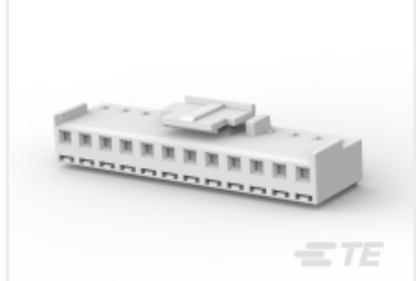
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

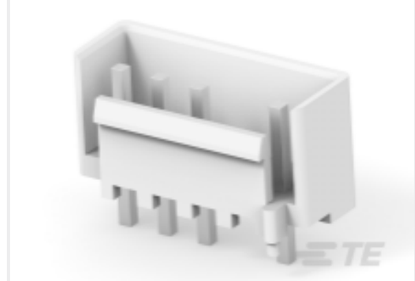
## Compatible Parts



TE Part # 1-2132782-2
12 pos. EP II breakaway retain



TE Part # 1-1744416-2
12 POS EP II HSG, GLOW WIRE



TE Part # 1-1744427-5
EP HEADER ASY,SHROUDED,5 POS, GW,NO PIN2

## Also in the Series | Economy Power



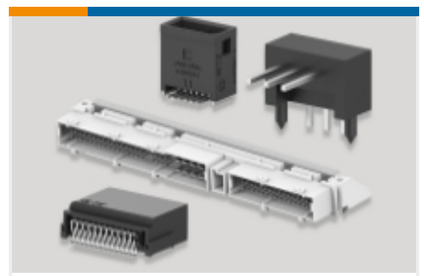
Connector Contacts(15)



Connector Hardware(2)



Insertion & Extraction Tools(1)



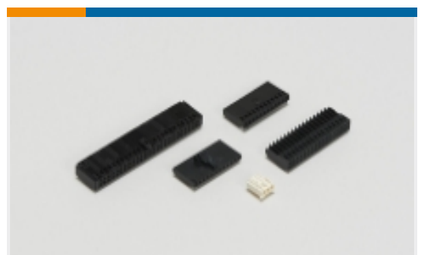
PCB Headers & Receptacles(400)



Rectangular Connector Housings(1)

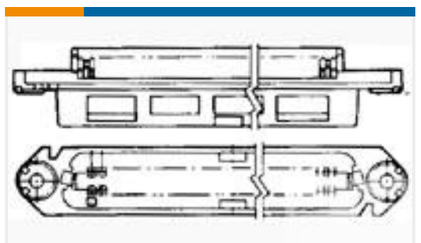


Rectangular Power Connectors(64)



Wire-to-Board Connector Assemblies & Housings(142)

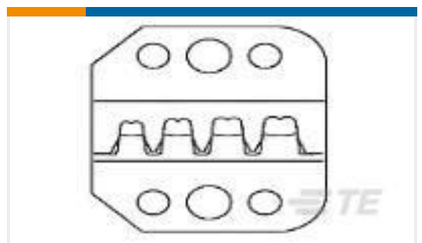
## Customers Also Bought



TE Part #229975-1
ASSY,RCPT,50POS,B SLOT,BLK HSG



TE Part #640456-2
02P MTA100 HDR ASSY F/L SQ STR



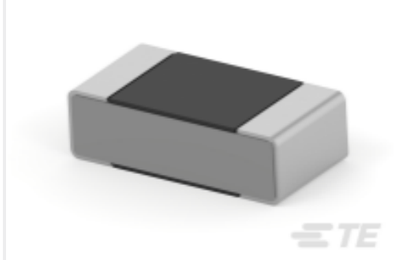
TE Part #58529-2
PROCRIMP DIE AMPSEAL



TE Part #5745172-1
SIZE 2 ASSY KIT



TE Part #5650861-5
ASSEMBLY,RECEPTACLE,EUROCARD, T



TE Part #9-1879127-0
RN 0402 499R 0.1% 10PPM 5K RL



TE Part #1744427-6
EP Header Asy,Shrouded,6 Pos, GW



TE Part #1744427-8
EP Header Asy,Shrouded,8 Pos, GW

## Documents

### Product Drawings

EP Header Asy,Shrouded,12 Pos, GW

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1744427-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-1744427-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1744427-2_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Datasheets & Catalog Pages

Economy Power II (EP II) Glow Wire test compliant connectors

English

1-1773885-9 Economy Power Connectors

English

### Product Specifications

Application Specification

English

### Agency Approvals

VDE Certificate

English

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Global Electronic Components Distributor

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## TE Connectivity:

917696-1 2380312-2 141991-2 1903112-2 1969656-1 3-1393225-0 175977-2 2005330-1 2310537-1
650075-000 MPT100C18RF RH73H2A40MKTN SBCHE154R7K TE50BR39J 2377783-2 CRGCQ2010J3K3
ROX05SJ18R SMW73R0JT 1393431-1 2834055-1 3430B2F51RTDF 3631B101LL 936348-1 1-962915-1
1743455-2 2-292161-3 SBCHE64R7K U5254-000005-030PA 1-794222-0 CPF0402B37K4E1