# 1-1971906-3 ✔ ACTIVE

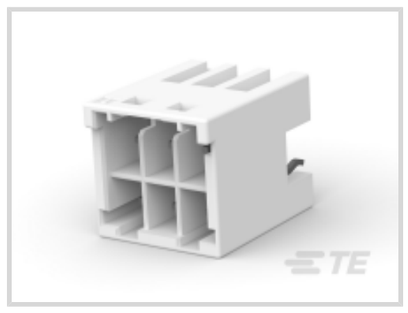
GRACE INERTIA 3.3

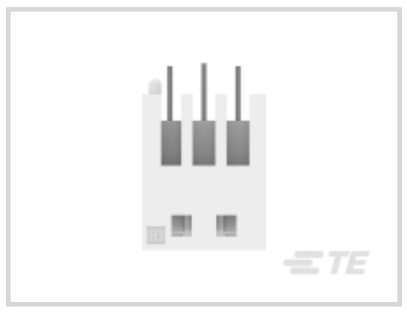
TE Internal #: 1-1971906-3

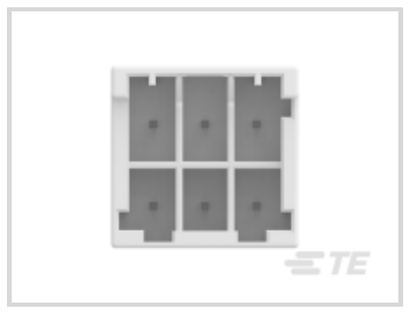
Header, Plug, Wire-to-Board, 6 Position, 3.3 mm [.129 in] Centerline, Printed Circuit Board, UL 94V-0, GRACE INERTIA 3.3, Rectangular Power Connectors

View on TE.com >

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors







Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **6**

Centerline (Pitch): **3.3 mm [ .129 in ]**

## Features

### Product Type Features

| | |
|---|---|
| Header Type | Fully 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 | 6 |
| PCB Mount Orientation | Vertical |
| Number of Power Positions | 6 |
| Number of Rows | 2 |

### Electrical Characteristics

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

### Body Features

| | |
|---|---|
| Connector & Keying Code | A |

## Contact Features

| | |
|---|---|
| Mating Post Length | 6.6 mm[.26 in] |
| PCB Contact Termination Area Plating Material Thickness | 2 µm[78.74 µin] |
| Contact Layout | Matrix |
| Mating Tab Width | .5 mm[.02 in] |
| Contact Underplating Material Thickness | 1.25 µm[49.21 µin] |
| Contact Mating Area Plating Material | Tin |
| Contact Underplating Material | Nickel |
| Contact Base Material | Brass |
| Contact Current Rating (Max) | 4 A |
| Contact Retention Within Housing | Without |
| Contact Type | Pin |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material Thickness | 2 µm[78.73 µin] |

## Termination Features

| | |
|---|---|
| Termination Post & Tail Length | 3 mm[.118 in] |
| Termination Method to PCB | Through Hole - Solder |

## Mechanical Attachment

| | |
|---|---|
| PCB Mount Alignment Type | Locating Posts |
| Mating Alignment Type | Keyed |
| Mating Retention | With |
| Mating Alignment | With |
| PCB Mount Alignment | With |
| PCB Mount Retention | With |
| PCB Mount Retention Type | Kinked |
| Mating Retention Type | Latch |
| Connector Mounting Type | Board Mount |

## Housing Features

| | |
|---|---|
| Centerline (Pitch) | 3.3 mm[.129 in] |
| Housing Color | Natural |
| Housing Material | PA 66 GF |

## Dimensions

| | |
|---|---|
| Connector Height | 14.25 mm[.561 in] |
| PCB Thickness (Recommended) | .06 mm[1.6 in] |
| Product Width | 11.6 mm[.456 in] |
| Product Length | 12 mm[.472 in] |
| Row-to-Row Spacing | 5.2 mm[.204 in] |

## Usage Conditions

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

## Operation/Application

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

## Industry Standards

| | |
|---|---|
| UL Rating | Recognized |
| Compatible With Agency/Standards Products | CSA |
| UL Flammability Rating | UL 94V-0 |
| Glow Wire Rating | GWT 750°C (Without Flame) |

## Packaging Features

| | |
|---|---|
| Packaging Quantity | 300 |
| Packaging Method | Tray |

# 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 | Not reviewed for solder process capability |

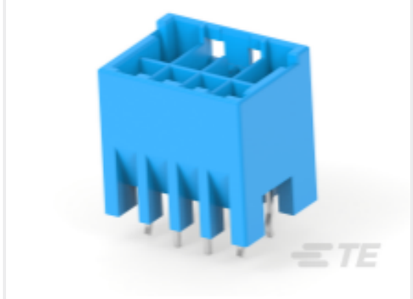
Product Compliance Disclaimer

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 # 1-1971906-6
HEADER ASSY 12POS,KEYING-A, NEW GIC3.3



TE Part # 2-1971906-4
HEADER ASSY 8POS,KEYING-B,NEW GIC3.3



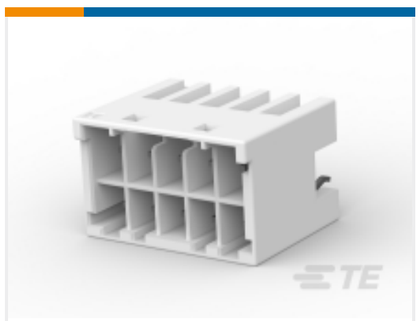
TE Part # 1-1971906-4
HEADER ASSY 8POS,KEYING-A,NEW GIC3.3



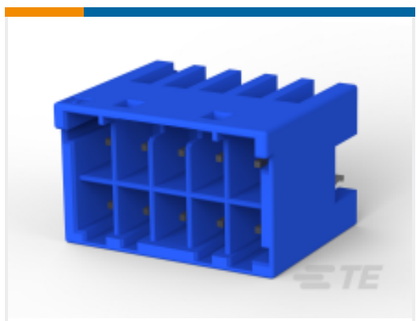
TE Part # 2-1971906-3
HEADER ASSY 6POS,KEYING-B,NEW GIC3.3



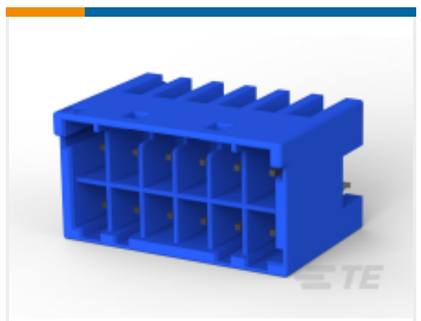
TE Part # 2-1971906-2
HEADER ASSY 4POS,KEYING-B,NEW GIC3.3



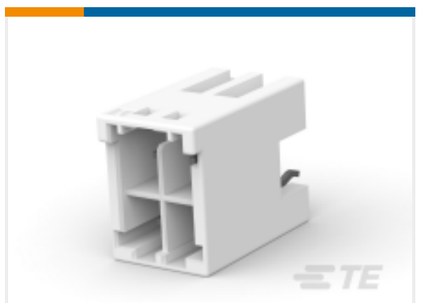
TE Part # 1-1971906-5
HEADER ASSY 10POS,KEYING-A, NEW GIC3.3



TE Part # 2-1971906-5
HEADER ASSY 10POS,KEYING-B,NEW GIC3.3



TE Part # 2-1971906-6
HEADER ASSY 12POS,KEYING-B,NEW GIC3.3



TE Part # 1-1971906-2
HEADER ASSY 4POS,KEYING-A,NEW GIC3.3



TE Part # 5-1971906-3
HEADER ASSY 6POS,KEYING-A,NEW GIC3.3

## Also in the Series | GRACE INERTIA 3.3



Connector Contacts(3)

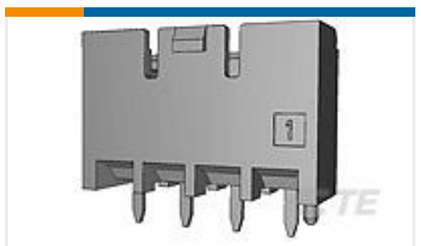


Connector Hardware(15)

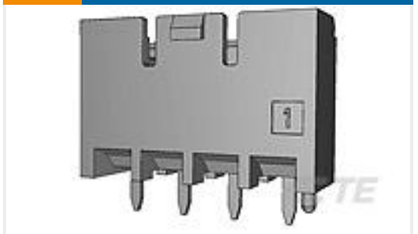


Rectangular Power Connectors(69)

## Customers Also Bought



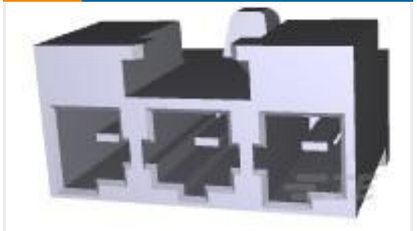
TE Part #1376383-1
5mm B-T-W Conn. 3P HDR ASSEMBL



TE Part #1376384-1
5mm B-T-W Conn. 4P HDR ASSEMBL



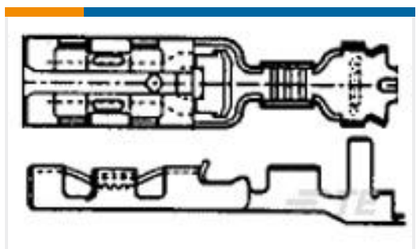
TE Part #1981973-1
GIC2.5W CAP HOUSING 12POS (2-ROW) NAT



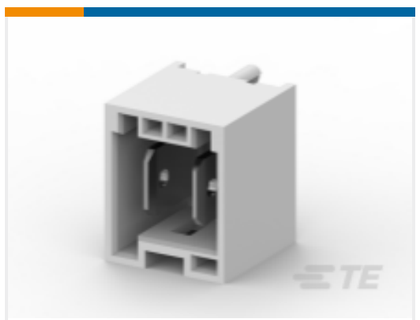
TE Part #179846-1
AMP POWER D/LOCK T/HDR ASSY 3P



TE Part #2-1971906-3
HEADER ASSY 6POS,KEYING-B,NEW GIC3.3



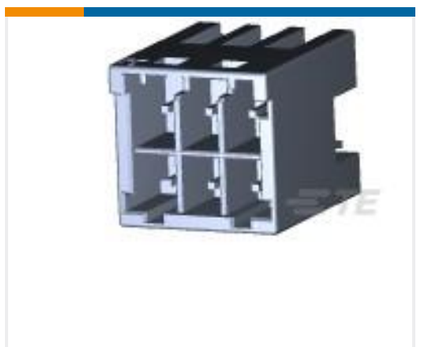
TE Part #353249-2
110 PL EX REC. 26-22AWG PTPHBZ



TE Part #1-2292457-2
2P, RAST 5 HEADER, PL, SHROUDED



TE Part #1-1971906-2
HEADER ASSY 4POS,KEYING-A,NEW GIC3.3



TE Part #4-1971906-3
HEADER ASSY 6POS,KEYING-D,NEW GIC3.3

## Documents

### Product Drawings

HEADER ASSY 6POS,KEYING-A,NEW GIC3.3

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1971906-3_A_c-1-1971906-3-a.2d_dxf.zip

English

### Customer View Model

ENG_CVM_CVM_1-1971906-3_A_c-1-1971906-3-a.3d_igs.zip

English

### Customer View Model

ENG_CVM_CVM_1-1971906-3_A_c-1-1971906-3-a.3d_stp.zip

English

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

## Datasheets & Catalog Pages

### 1-1773883-5 GRACE INERTIA connector quick reference guide

English

### 5-1773465-4-GI3.3Flyer

English

### 7-1773465-7-GI3.3-ChineseFlyer

### GI3.3_QRG_CN

## Product Specifications

### Application Specification

English

# Unikeyic Electronics

Global Electronic Components Distributor

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## TE Connectivity:

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