

2-1971906-4 ✓ ACTIVE



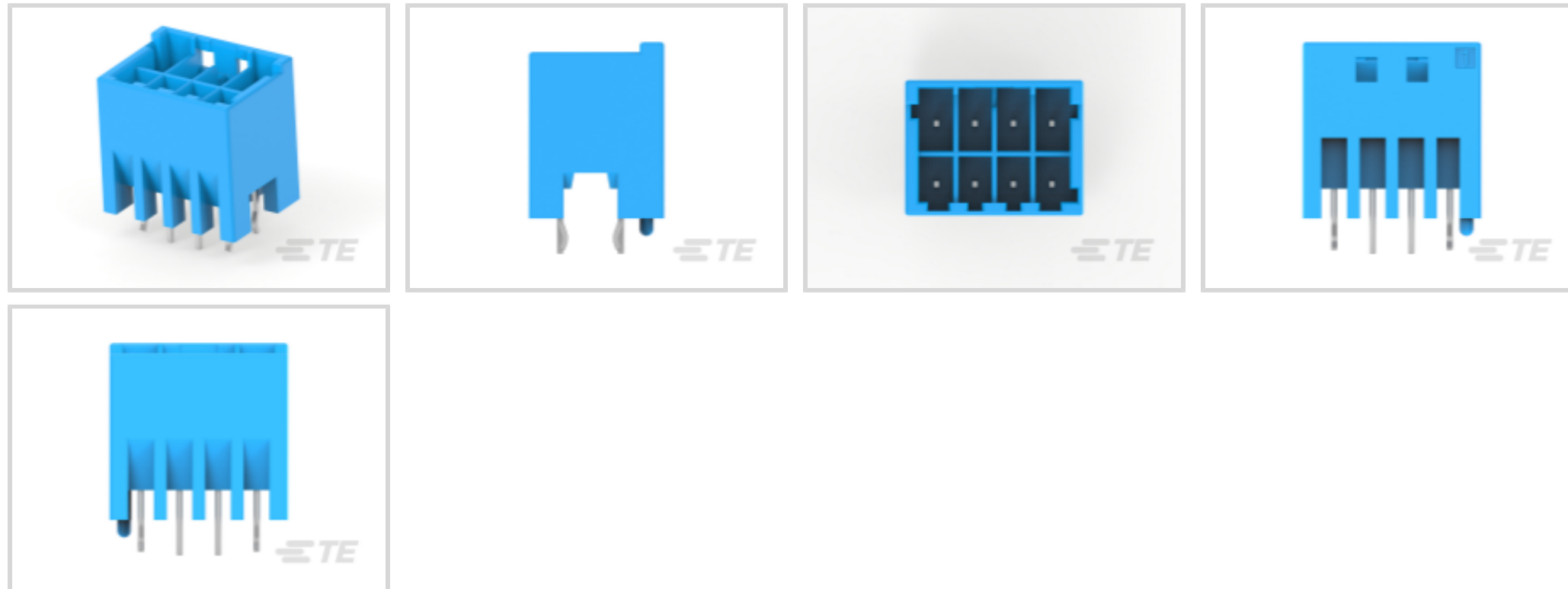
### GRACE INERTIA 3.3

TE Internal #: 2-1971906-4

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 8 Position, 3.3 mm [.129 in] Centerline, Printed Circuit Board, UL 94V-0, GRACE INERTIA 3.3

[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: **8**

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       | 8        |
| Keying                    | B        |
| PCB Mount Orientation     | Vertical |
| Number of Power Positions | 8        |
| Number of Rows            | 2        |

### Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VDC |
|-------------------|---------|



### Contact Features

|  |                              |
|--|------------------------------|
| Contact Layout                                 | Matrix                       |
| 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           | Tin                          |
| Contact Mating Area Plating Material Thickness | 2 $\mu$ m[78.74 $\mu$ in]    |
| Underplate Material Thickness                  | 1.25 $\mu$ m[49.21 $\mu$ in] |
| Contact Termination Area Plating Thickness     | 2 $\mu$ m[78.74 $\mu$ in]    |
| Tab Width                                      | .5 mm[.02 in]                |

### Termination Features

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

### Mechanical Attachment

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

### Housing Features

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

### Dimensions

|                    |                 |
|--------------------|-----------------|
| Row-to-Row Spacing | 5.2 mm[.205 in] |
|--------------------|-----------------|



|                             |                |
|-----------------------------|----------------|
| PCB Thickness (Recommended) | 1.6 mm[.06 in] |
|-----------------------------|----------------|

|                    |                |
|--------------------|----------------|
| Mating Post Length | 6.6 mm[.26 in] |
|--------------------|----------------|

|        |                   |
|--------|-------------------|
| Height | 14.25 mm[.561 in] |
|--------|-------------------|

|        |                  |
|--------|------------------|
| Length | 15.3 mm[.602 in] |
|--------|------------------|

### Usage Conditions

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

### Operation/Application

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

### Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

|                  |                           |
|------------------|---------------------------|
| Glow Wire Rating | GWT 750°C (Without Flame) |
|------------------|---------------------------|

### Packaging Features

|                  |      |
|------------------|------|
| Packaging Method | Tray |
|------------------|------|

|                    |     |
|--------------------|-----|
| Packaging Quantity | 250 |
|--------------------|-----|

### Other

|              |              |
|--------------|--------------|
| For Use With | Plug Housing |
|--------------|--------------|

## 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 | Not Low Halogen - contains Br or Cl > 900 ppm. |
|-----------------|--|

|                           |  |
|---------------------------|--|
| Solder Process Capability | Not reviewed for solder process capability |
|---------------------------|--|

#### Product Compliance Disclaimer

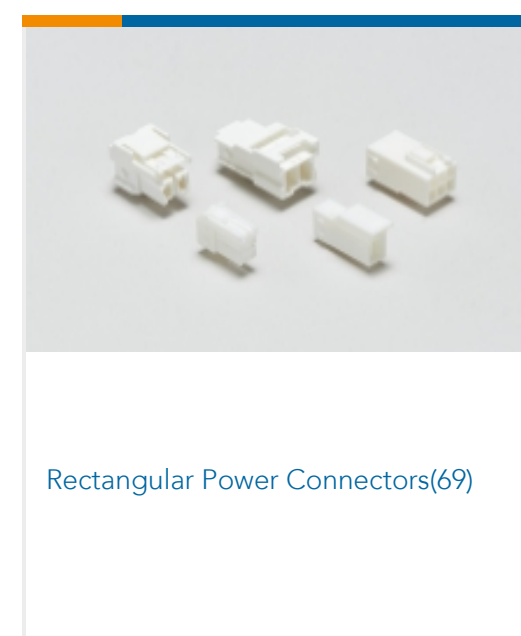
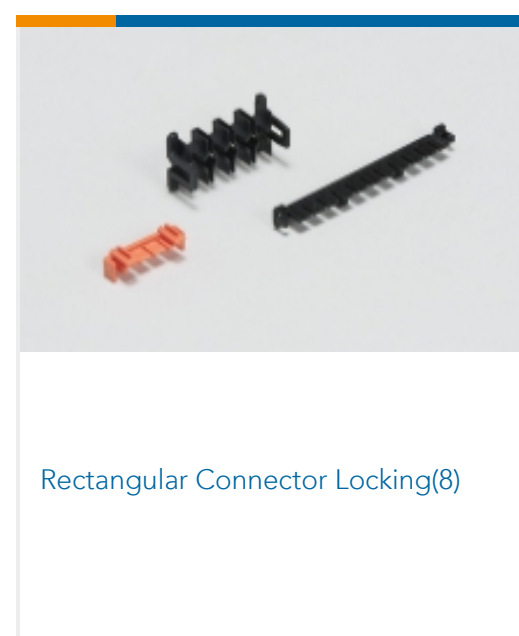
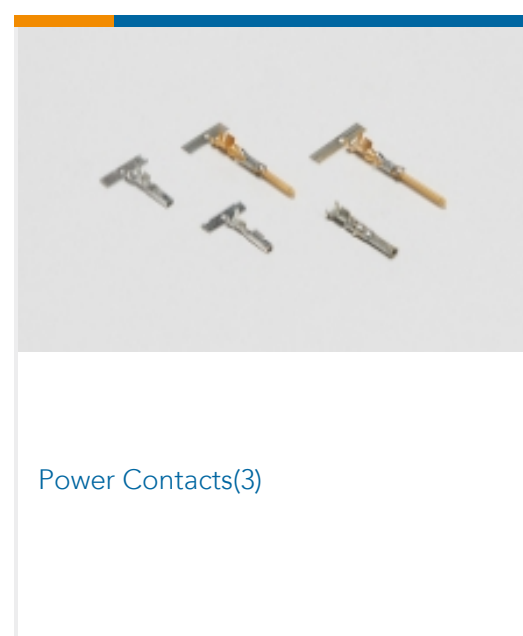
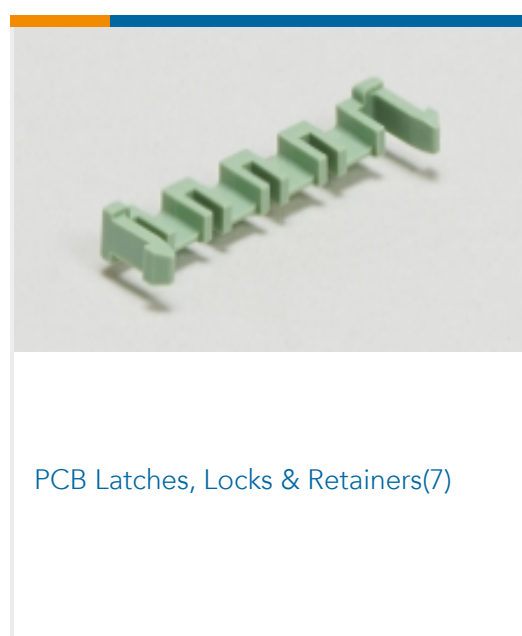
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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



## Also in the Series | GRACE INERTIA 3.3



## Documents

### Product Drawings

[HEADER ASSY 8POS,KEYING-B,NEW GIC3.3](#)

English

### CAD Files

[3D PDF](#)

[3D](#)

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2-1971906-4\\_A\\_c-2-1971906-4-a.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2-1971906-4\\_A\\_c-2-1971906-4-a.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2-1971906-4\\_A\\_c-2-1971906-4-a.3d\\_stp.zip](#)

English



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### Datasheets & Catalog Pages

[5-1773465-4-GI3.3Flyer](#)

English

[7-1773465-7-GI3.3-ChineseFlyer](#)

[GI3.3\\_QRG\\_CN](#)

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### Product Specifications

[Application Specification](#)

English

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### Product Environmental Compliance

[TE Material Declaration](#)

English

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### Agency Approvals

[UL Report](#)

English