

5-1565086-1 ✓ ACTIVE



## GRACE INERTIA 3.5

TE Internal #: 5-1565086-1

Rectangular Power Connectors, Housing, Receptacle, Wire-to-Wire,  
3 Position, 3.5 mm [.138 in] Centerline, Wire & Cable, UL 94V-0,  
GRACE INERTIA 3.5

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **3**

Centerline (Pitch): **3.5 mm [.138 in]**

### Features

#### Product Type Features

|                                   |              |
|-----------------------------------|--------------|
| Rectangular Power Connector Type  | Housing      |
| Connector & Housing Type          | Receptacle   |
| Connector System                  | Wire-to-Wire |
| Sealable                          | No           |
| Connector & Contact Terminates To | Wire & Cable |

#### Configuration Features

|                            |   |
|----------------------------|---|
| Number of Positions        | 3 |
| Number of Power Positions  | 0 |
| Number of Signal Positions | 0 |
| Number of Rows             | 1 |

#### Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 300 VAC |
|-------------------|---------|

#### Contact Features

|                                  |         |
|----------------------------------|---------|
| Contact Retention Within Housing | Without |
|----------------------------------|---------|



|              |     |
|--------------|-----|
| Contact Type | Tab |
|--------------|-----|

### Termination Features

|                                    |       |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

### Mechanical Attachment

|                         |                            |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
|-------------------------|----------------------------|

### Housing Features

|                    |                  |
|--------------------|------------------|
| Centerline (Pitch) | 3.5 mm [.138 in] |
|--------------------|------------------|

|               |         |
|---------------|---------|
| Housing Color | Natural |
|---------------|---------|

|                  |              |
|------------------|--------------|
| Housing Material | Nylon 6/6 GF |
|------------------|--------------|

### Usage Conditions

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

### Operation/Application

|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

### Industry Standards

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

|                  |                               |
|------------------|-------------------------------|
| Glow Wire Rating | Standard Part - Not Glow Wire |
|------------------|-------------------------------|

### Packaging Features

|                  |     |
|------------------|-----|
| Packaging Method | Box |
|------------------|-----|

### 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 2023 (235)<br>Candidate List Declared Against: JUNE 2023 (235)<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 | 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 # CAT-G7534-C1701  
STD Temp GRACE INERTIA Cap




TE Part # 5-1565085-1  
GRACE INERTIA CONNECTOR 3.5W  
2POS CAP

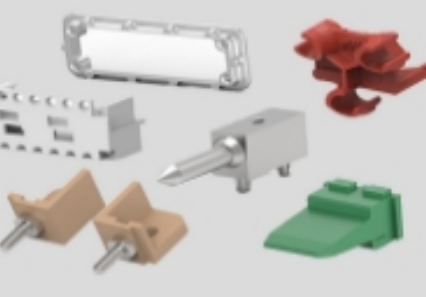


TE Part # 5-1565088-1  
GRACE INERTIA CONNECTOR 3.5W  
6POS CAP


### Also in the Series | GRACE INERTIA 3.5




Connector Contacts(4)



Connector Hardware(4)



Insertion & Extraction Tools(1)

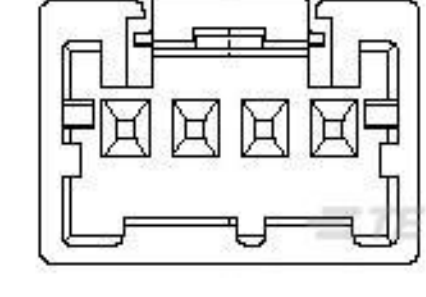


Rectangular Power Connectors(63)

### Customers Also Bought



TE Part #1565080-1  
GRACE INERTIA 3.5 TAB CONTACT(L)



TE Part #1903390-1  
GIC 2.5 W PLUG HSG 4P NATURAL



TE Part #1747995-4  
GHC EYELET 6.2 3POS PLUG  
HOUSING YELLOW



TE Part #2391865-2  
250 sleeve PL YELLOW transparent



## Documents

### Product Drawings

[GRACE INERTIA CONNECTOR 3.5W 3POS CAP](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5-1565086-1\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-1565086-1\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5-1565086-1\\_C.3d\\_stp.zip](#)

English

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### Product Specifications

[Product Specification](#)

English

[Product Specification](#)

English