

1565086-1 ✓ ACTIVE



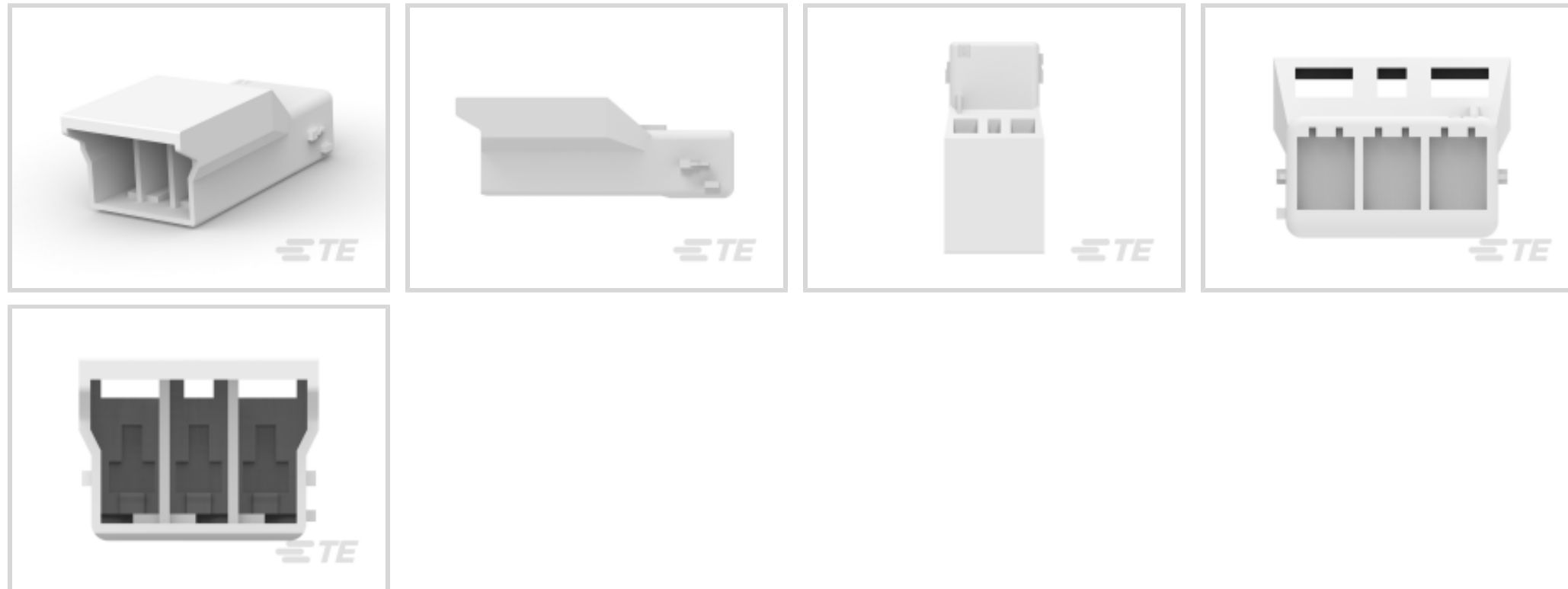
GRACE INERTIA 3.5

TE Internal #: 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

[View on TE.com >](#)

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors > STD Temp GRACE INERTIA Cap



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]**

[All STD Temp GRACE INERTIA Cap \(24\)](#)

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 |
|-------------------|---------|



Body Features

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

Contact Features

| | |
|----------------------------------|--------------|
| Contact Layout | Inline |
| Contact Base Material | Copper Alloy |
| Contact Retention Within Housing | Without |
| Contact Type | Tab |

Termination Features

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

Mechanical Attachment

| | |
|-------------------------|---------------------------------------|
| Strain Relief | Without |
| Mating Alignment Type | Keyed |
| Mating Retention | With |
| Mating Alignment | With |
| Panel Mount Feature | Without |
| PCB Mount Retention | Without |
| Mating Retention Type | Inertia Locking, Latch, Locking Latch |
| 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 |

Dimensions

| | |
|------------------|--------------------|
| Connector Height | 9.3 mm [.366 in] |
| Product Length | 12.55 mm [.493 in] |

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 Quantity | 300 |
| 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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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 applicable for solder process capability |

Product Compliance Disclaimer

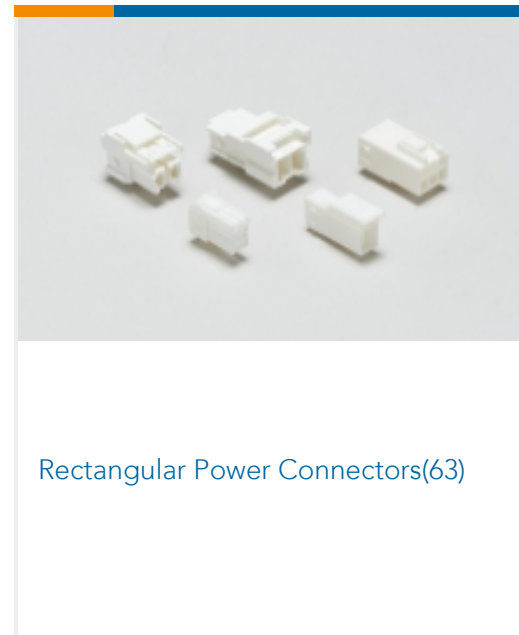
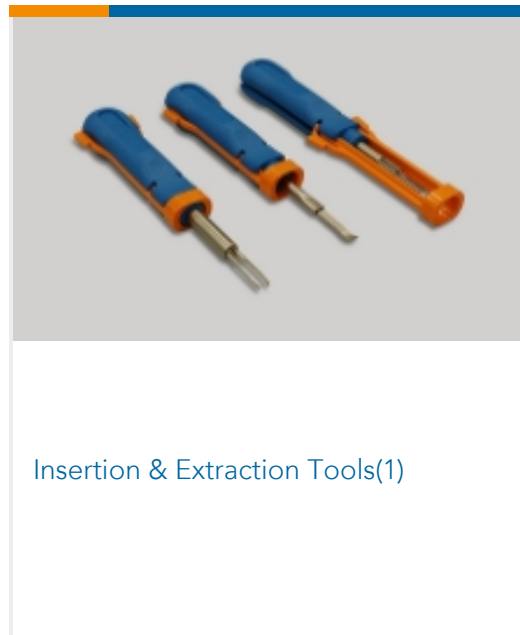
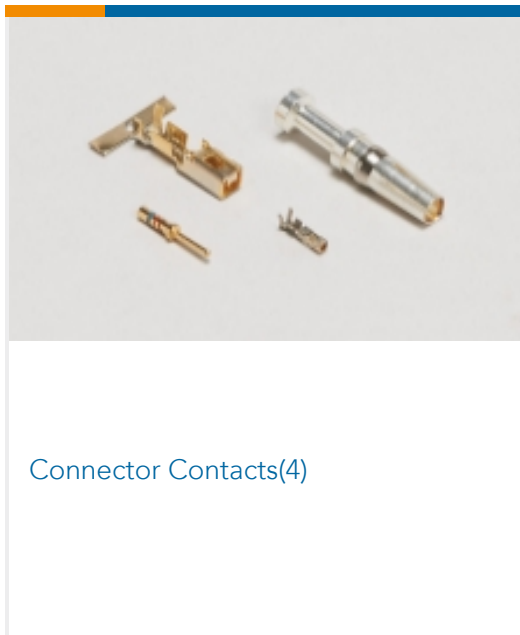
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 3.5**



Customers Also Bought



Documents

Product Drawings

[GRACE INERTIA CONNECTOR 3.5 3P](#)

English

CAD Files

[3D PDF](#)

[3D](#)



Customer View Model

[ENG_CVM_CVM_1565086-1_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1565086-1_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1565086-1_C.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

[1-1773883-5 GRACE INERTIA connector quick reference guide](#)

English

Product Specifications

[Product Specification](#)

English

[Product Specification](#)

English

Instruction Sheets

[Extraction Tool for GIC 3.5 Conn.](#)

Japanese

[Instruction Sheet \(non U.S.\)](#)

Japanese

Agency Approvals

[UL Report](#)

English