

1747062-1 ✓ ACTIVE

Grace Inertia | GRACE INERTIA 2.0

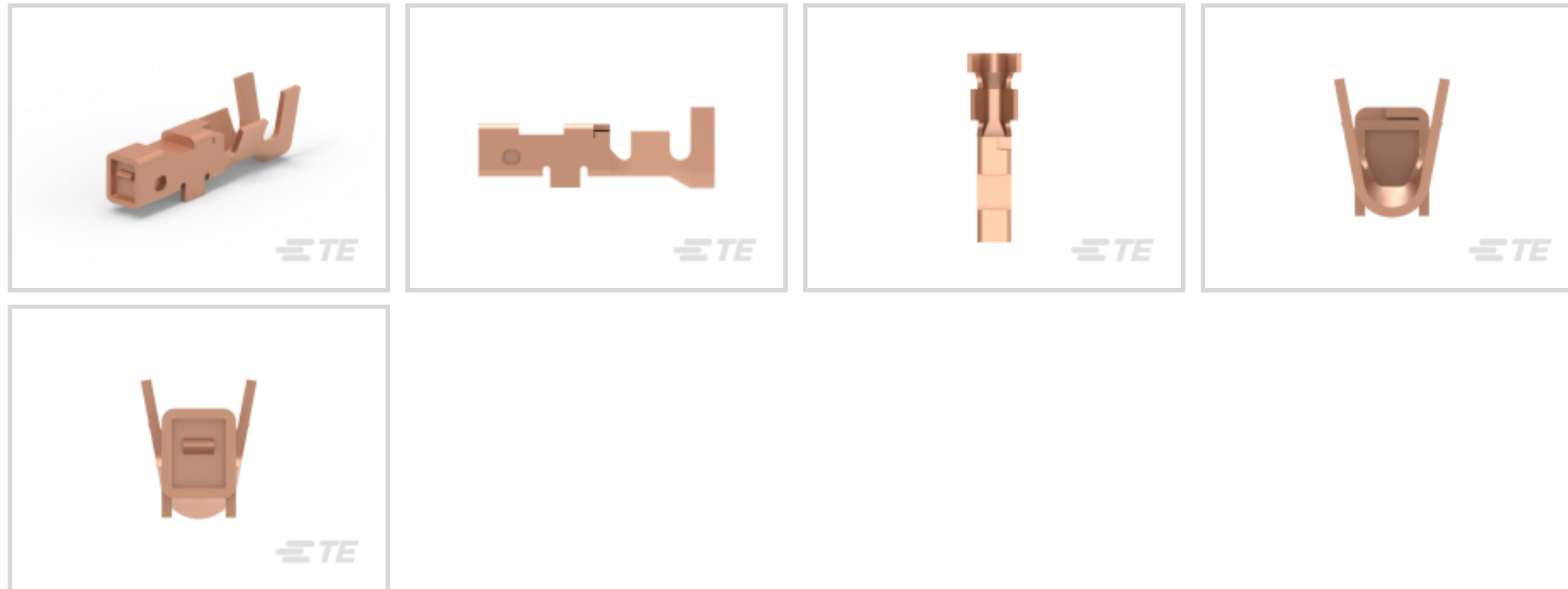
TE Internal #: 1747062-1

GRACE INERTIA 2.0, Connector Contact, Socket, Wire-to-Wire, 28  
– 22AWG Wire Size, .079 – .38mm<sup>2</sup> Wire Size, Gold, Reel, Wire &  
Cable

[View on TE.com >](#)



Connectors > PCB Connectors > Wire-to-Board Connectors > Wire-to-Board Connector Contacts > Sig GRACE INERTIA Receptacle



Contact Type: **Socket**

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

Wire Size: **.079 – .38 mm<sup>2</sup>**

Contact Mating Area Plating Material: **Gold**

[All Sig GRACE INERTIA Receptacle \(9\)](#)

## Features

### Product Type Features

|                                   |              |
|-----------------------------------|--------------|
| Connector System                  | Wire-to-Wire |
| Sealable                          | No           |
| Connector & Contact Terminates To | Wire & Cable |

### Configuration Features

|                                   |               |
|-----------------------------------|---------------|
| Compatible With Wire & Cable Type | Discrete Wire |
|-----------------------------------|---------------|

### Electrical Characteristics

|                       |         |
|-----------------------|---------|
| Insulation Resistance | 1000 MΩ |
| Operating Voltage     | 50 VAC  |

### Contact Features

|   |                 |
|---|-----------------|
| Contact Retention Within Housing        | With            |
| Mating Tab Width                        | .5 mm[.02 in]   |
| Mating Tab Thickness                    | .46 mm[.018 in] |
| Contact Underplating Material Thickness | 1.27 μm[50 μin] |



|  |                  |
|--|------------------|
| Contact Mating Area Plating Material Thickness | .4 μm[15.75 μin] |
| Contact Underplating Material                  | Nickel           |
| Contact Base Material                          | Phosphor Bronze  |
| Contact Type                                   | Socket           |
| Contact Mating Area Plating Material           | Gold             |
| Contact Current Rating (Max)                   | 2.5 A            |

### Termination Features

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

### Mechanical Attachment

|                                       |                            |
|---------------------------------------|----------------------------|
| Contact Retention Type Within Housing | Locking Lance              |
| Connector Mounting Type               | Cable Mount (Free-Hanging) |

### Dimensions

|  |                               |
|--|-------------------------------|
| Accepts Wire Insulation Diameter Range | 1.08 – 1.5 mm[.043 – .059 in] |
| Wire Size                              | .079 – .38 mm <sup>2</sup>    |

### Usage Conditions

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

### Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

### Industry Standards

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

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Quantity | 6000 |
| Packaging Method   | Reel |

### Other

|         |   |
|---------|---|
| Comment | Use with Grace Inertia Connector 2.0 and 2.5. |
|---------|---|

### 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 2021 (211)

Candidate List Declared Against: JAN 2021 (211)

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



TE Part # 2305570-1  
TERMINAL CUTTER, SIDE FEED



TE Part # 1747066-4  
GRACE INERTIA CONN 2.5 PLUG HSG 4P NATUR



TE Part # 1747066-2  
GRACE INERTIA CONN 2.5 PLUG HSG 2P NATUR



TE Part # 1747066-6  
GRACE INERTIA CONN 2.5 PLUG HSG 6P NATUR



TE Part # 1747066-5  
GRACE INERTIA CONN 2.5 PLUG HSG 5P NATUR



TE Part # 1-1747066-2  
GRACE INERTIA CONN 2.5 PLUG HSG 2P RED



TE Part # 1747066-3  
GRACE INERTIA CONN 2.5 PLUG HSG 3P NATUR



TE Part # 2-1747066-4  
GRACE INERTIA CONN 2.5 PLUG HSG 4P BLUE



TE Part # 2134384-1  
GIC 2.5 REC CONT TIN PLATE TYPE (2L TYPE)

TE Part # 2-1747066-6  
GRACE INERTIA CONN 2.5 PLUG HSG 6P BLUE

TE Part # 1-1747066-6  
GRACE INERTIA CONN 2.5 PLUG HSG 6P RED

TE Part # 1747069-1  
GRACE INERTIA CONN 2.0 PLUG HSG 10P NATU

TE Part # 1729688-1  
SDE SAHT GIC 2.0 2.5 REC 28-22 ASSY

TE Part # 1747066-8  
GRACE INERTIA CONN 2.5 PLUG HSG 8P NATUR

TE Part # 2151126-1  
OCEAN-2.0-APPLICATOR-S-046F057F

TE Part # 7-2151126-1  
OCEAN-2.0-APPLICATOR-S-046F057F

TE Part # 7-2151126-2  
OCEAN-2.0-APPLICATOR-S-046F057F

TE Part # 7-2151126-7  
OCEAN\_2.0\_SPARE\_PART\_KIT-046F057F

TE Part # 2151126-2  
OCEAN-2.0-APPLICATOR-S-046F057F

Also in the Series | **GRACE INERTIA 2.0**

Rectangular Connector Housings(20)

Standard Rectangular Connectors(18)

Wire-to-Board Connector Assemblies & Housings(1)

Wire-to-Board Connector Contacts(3)

Wire-to-Board Headers & Receptacles (70)

Customers Also Bought



## Documents

### Product Drawings

[GRACE INERTIA CONN 2.0 REC CONTACT](#)

Japanese

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1747062-1\\_J.2d\\_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1747062-1\\_J.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1747062-1\\_J.3d\\_stp.zip](#)

English

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

### Product Specifications



[Application Specification](#)

English

[Application Specification](#)

Japanese

---

[Product Environmental Compliance](#)

[Product Compliance](#)

English

[Product Compliance](#)

English

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[1747062-1](#)