

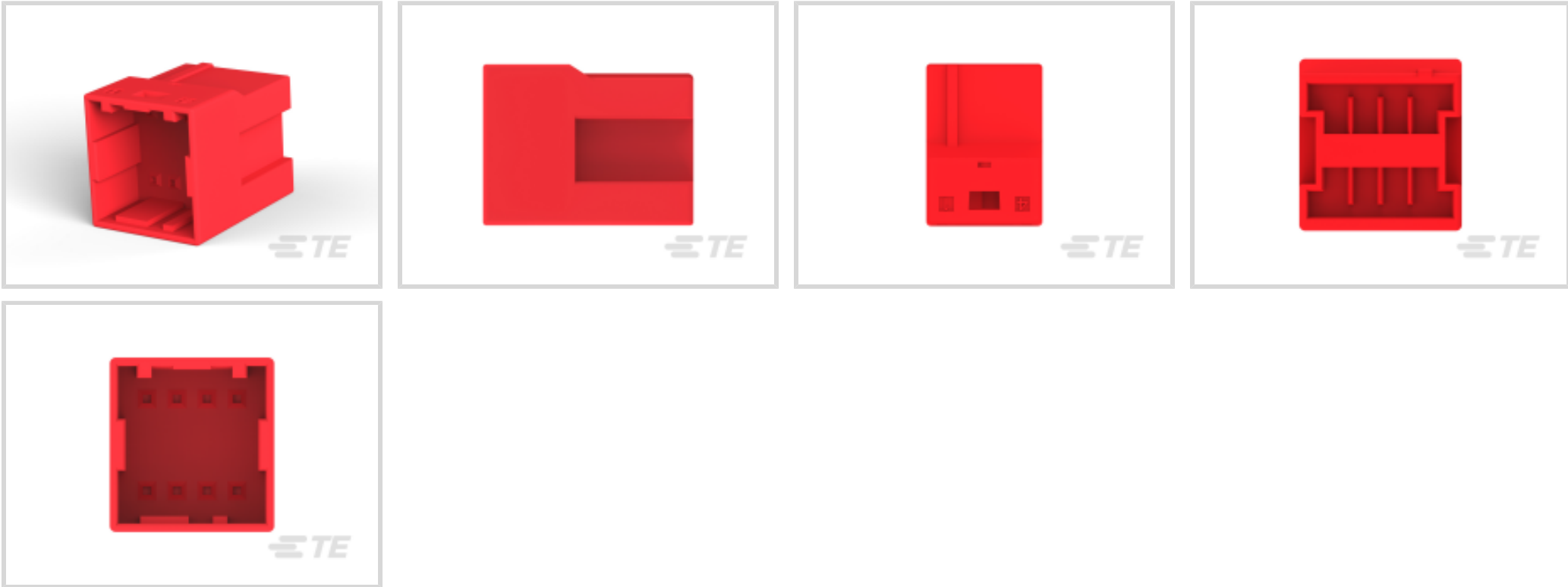


GRACE INERTIA 2.5

TE Internal #: 1-1981971-2  
Wire-to-Wire, 8 Position, 2.5 mm [.098 in] Centerline, 2 Row, PBT GF, Receptacle, Tab, Wire & Cable, GRACE INERTIA 2.5, Rectangular Connector Housings

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Connectors > Rectangular Connectors > Rectangular Connector Housings > STD Temp Sig GRACE INERTIA Cap



Connector System: **Wire-to-Wire**  
Number of Positions: **8**  
Centerline (Pitch): **2.5 mm [.098 in]**  
Number of Rows: **2**  
Housing Material: **PBT GF**

[All STD Temp Sig GRACE INERTIA Cap \(20\)](#)

Features

Product Type Features

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

Configuration Features

|                     |   |
|---------------------|---|
| Number of Cavities  | 8 |
| Number of Positions | 8 |
| Number of Rows      | 2 |

Electrical Characteristics

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

Contact Features

|                |        |
|----------------|--------|
| Contact Layout | Matrix |
|----------------|--------|



|                                                                 |                                              |
|-----------------------------------------------------------------|----------------------------------------------|
| Contact Type                                                    | Tab                                          |
| Mechanical Attachment                                           |                                              |
| Connector Mounting Type                                         | Cable Mount (Free-Hanging)                   |
| Housing Features                                                |                                              |
| Housing Color                                                   | Red                                          |
| Centerline (Pitch)                                              | 2.5 mm[.098 in]                              |
| Housing Material                                                | PBT GF                                       |
| Dimensions                                                      |                                              |
| Connector Height                                                | 18.8 mm[.74 in]                              |
| Product Width                                                   | 14.4 mm[.567 in]                             |
| Product Length                                                  | 13.7 mm[.539 in]                             |
| Row-to-Row Spacing                                              | 7.6 mm[.3 in]                                |
| Usage Conditions                                                |                                              |
| Operating Temperature Range                                     | -30 – 105 °C[-22 – 221 °F]                   |
| Operation/Application                                           |                                              |
| Halogen Free                                                    | No                                           |
| Circuit Application                                             | Signal                                       |
| Identification Marking                                          |                                              |
| Circuit Identification Feature                                  | Without                                      |
| Industry Standards                                              |                                              |
| Glow Wire Rating                                                | Standard Part - Not Glow Wire                |
| Packaging Features                                              |                                              |
| Packaging Quantity                                              | 500                                          |
| 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: JUNE 2024 (241) |



Candidate List Declared Against: JUNE 2024 (241)  
Does not contain REACH SVHC

|                           |                                                |
|---------------------------|------------------------------------------------|
| Halogen Content           | Not Low Halogen - contains Br or Cl > 900 ppm. |
| 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 # CAT-G7534A-C1701  
STD Temp Sig GRACE INERTIA Cap

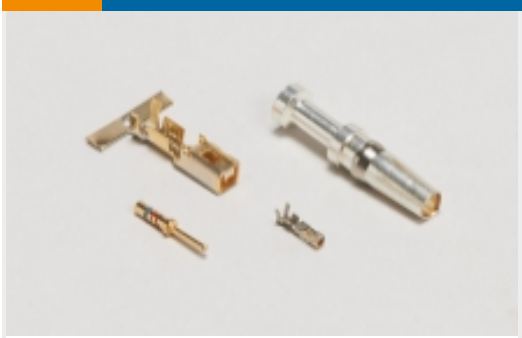


TE Part # 1-1981970-2  
GIC2.5W PLUG HOUSING 8POS (2-ROW) RED



TE Part # 1981970-1  
GIC2.5W PLUG HOUSING 8POS (2-ROW) NAT

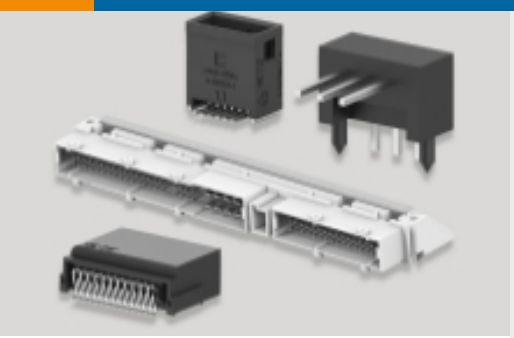
Also in the Series | GRACE INERTIA 2.5



Connector Contacts(6)



Connector Hardware(7)



PCB Headers & Receptacles(138)



Rectangular Connector Housings(49)



Rectangular Power Connectors(35)



Wire-to-Board Connector Assemblies & Housings(46)

Customers Also Bought



TE Part #DT04-2P  
REC, 2P, GRY, N



TE Part #DT06-2S  
PLG, 2P, GRY, N



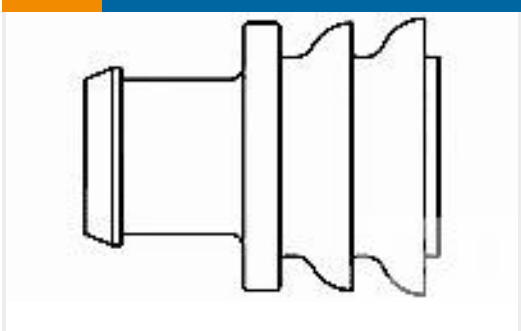
TE Part #W2S  
Wedgelocks: DEUTSCH DT



TE Part #0460-202-16141  
DEUTSCH Solid Contacts



TE Part #282104-1  
AMP SUPERSEAL 1.5MM,  
CONNECTOR HOUSING



TE Part #281934-2  
SINGLE WIRE SEAL



TE Part #114017-ZZ  
SEALING PLUG, SIZE 12/16, WHT

Documents

Product Drawings

GIC2.5W CAP HOUSING 8POS (2-ROW) RED

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1981971-2\_E\_c-1-1981971-2-e.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1981971-2\_E\_c-1-1981971-2-e.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-1981971-2\_E\_c-1-1981971-2-e.3d\_stp.zip

English

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[Product Specifications](#)

[Application Specification](#)

English