



**GRACE INERTIA 2.5**

TE Internal #: 1981971-1

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

[View on TE.com >](#)

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	Natural
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
Agency/Standard	UL
Approved Standards	UL E28476
UL Flammability Rating	UL 94V-0

### 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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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-P729  
STD Temp Sig GRACE INERTIA Plug

TE Part # CAT-G7534A-C1701  
STD Temp Sig GRACE INERTIA Cap

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

### Also in the Series | GRACE INERTIA 2.5

Connector Contacts(2)

PCB Headers & Receptacles(138)

PCB Latches, Locks & Retainers(5)

Rectangular Connector Housings(49)

Rectangular Connector Locking(2)

Rectangular Power Connectors(35)

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

Wire-to-Board Connector Contacts(4)

### Customers Also Bought

TE Part #440129-2 2.0MM,HSG,2POS	TE Part #917699-1 Signal Double Lock TPA	TE Part #917765-1 2.5 SIGNAL D/LOCK TAB CONT. M	TE Part #2-520407-2 ULTRA-FAST 250 ASY REC 22-18 TPBR
TE Part #42238-2 FF 250 REC 18-14AWG TPBR PRE CRIMPED	TE Part #926097-1 FF 250 TAB HSG 3P NYLON NAT	TE Part #2-1903391-3 GIC 2.5 W CAP HSG 2P BLUE	TE Part #1-746610-6 26 DIP PLUG, 100CL, LEAD FREE

## Documents

### Product Drawings

#### GIC2.5W CAPHOUSING 8POS (2-ROW) NAT

English

### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1981971-1\\_E\\_c-1981971-1-e.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1981971-1\\_E\\_c-1981971-1-e.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1981971-1\\_E\\_c-1981971-1-e.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

### Product Environmental Compliance

#### MD\_1981971-1\_08182017154\_dmtec

English

#### MD\_1981971-1\_08182017154\_dmtec

English

1981971-1

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

