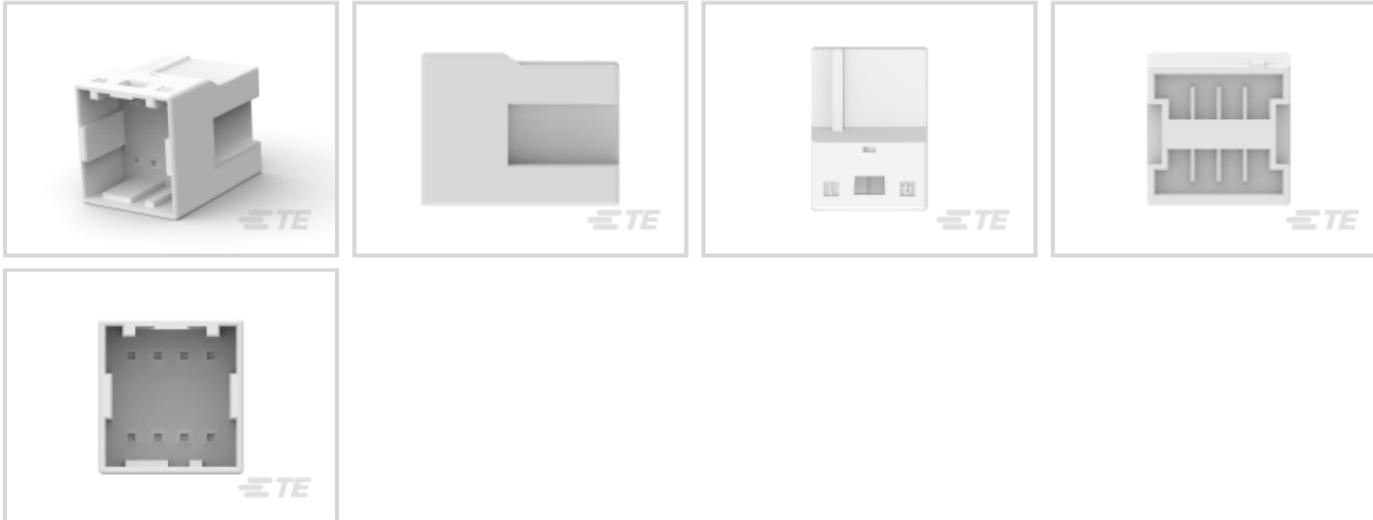# 1981971-1 ✓ ACTIVE

## 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 |
|---|---|

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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

| | |
|---|---|
| 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 |
| Compatible With Agency/Standards Products | UL |
| Compatible With Approved Standards Products | 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 |

1981971-1

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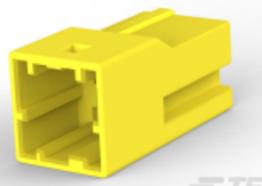Centerline, 2 Row, PBT GF, Receptacle, Tab, Wire & Cable, GRACE INERTIA 2.5

| 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)<br>Candidate List Declared Against: JAN 2024 (240)<br>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 # CAT-G7534A-P729

STD Temp Sig GRACE INERTIA Plug



TE Part # 1981970-1

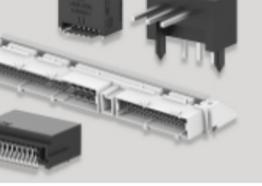GIC2.5W PLUG HOUSING 8POS (2-ROW) NAT

## Also in the Series | GRACE INERTIA 2.5



Connector Contacts(6)



Connector Hardware(7)



PCB Headers & Receptacles(138)



Rectangular Connector Housings(49)

# 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

Rectangular Power Connectors(35)

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

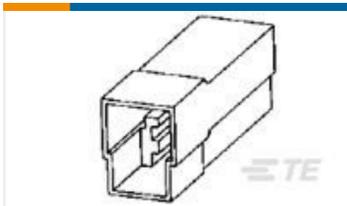## Customers Also Bought

TE Part # 440129-2
2.0MM,HSG,2POS
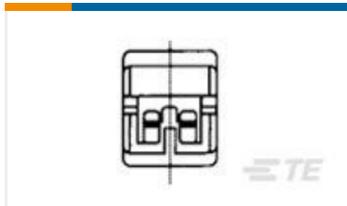
TE Part # 179862-1
AMP POWER D/LOCK PLUG HSG 6P

TE Part # 917765-1
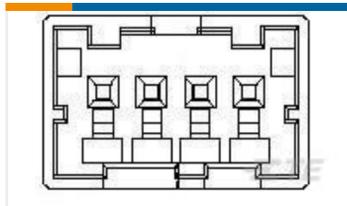2.5 SIGNAL D/LOCK TAB CONT. M

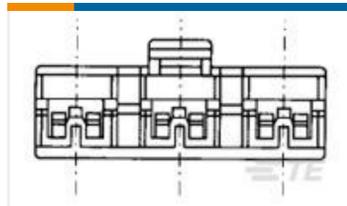TE Part # 1-746610-6
26 DIP PLUG, 100CL, LEAD FREE

TE Part # 926097-1
FF 250 TAB HSG 3P NYLON NAT

TE Part # 353251-1
PL EX 110 (2.8 MM) HOUSING RECEPTACLE

TE Part # 1-1903393-2
GIC 2.5 W CAP HSG 4P RED

TE Part # 353255-1
110 HSG. PL EX REC. 7.6mm 3P NAT

TE Part # 1-178708-7
PL EX SLEEVE 187 FLAG RED 6/6 NYLON

## 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

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

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