



GRACE INERTIA 2.5

TE Internal #: 1903390-1
Housing, Plug, Wire-to-Wire, 4 Position, 2.5 mm [.098 in] Centerline,
Crimp, 1 Row, Natural, Mating Retention, Wire & Cable, GRACE
INERTIA 2.5

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Connectors > PCB Connectors > Wire-to-Board Connectors > Wire-to-Board Connector Assemblies & Housings



Connector Product Type: **Housing**
Connector & Housing Type: **Plug**
Connector System: **Wire-to-Wire**
Number of Positions: **4**
Centerline (Pitch): **2.5 mm [.098 in]**

Features

Product Type Features

Connector Product Type	Housing
Connector & Housing Type	Plug
Connector System	Wire-to-Wire
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Positions	4
Number of Rows	1

Electrical Characteristics

Operating Voltage	250 VAC
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Body Features

Connector & Keying Code	A
Primary Product Color	Natural



Contact Features

Contact Layout	Inline
Contact Type	Pin
Contact Base Material	Copper Alloy

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

Strain Relief	Without
Panel Mount Feature	Without
PCB Mount Retention	Without
Mating Retention Type	Latch
Mating Retention	With
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

Housing Entry Configuration	Both Ends Open
Housing Material	PBT GF
Centerline (Pitch)	2.5 mm [.098 in]

Dimensions

Connector Length	13.7 mm [.538 in]
Connector Height	9.14 mm [.359 in]

Usage Conditions

Operating Temperature Range	-30 – 105 °C [-22 – 221 °F]
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Operation/Application

Circuit Application	Power & Signal
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Industry Standards

Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	1000
Packaging Method	Bag

Product Compliance



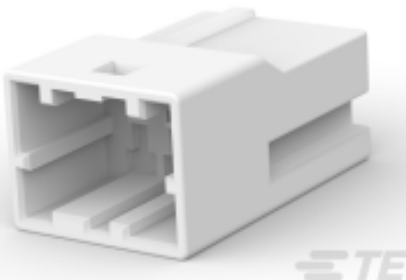
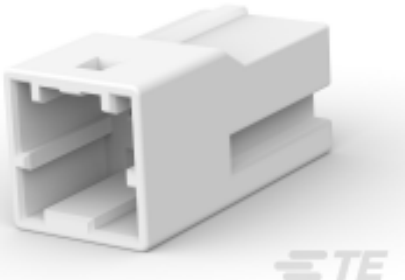
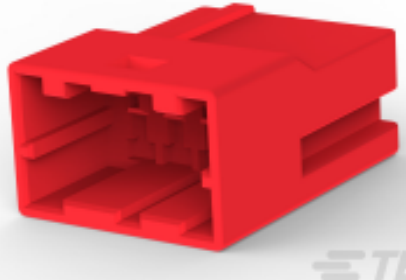
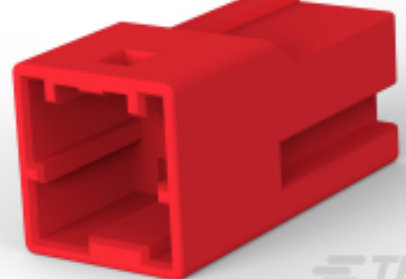
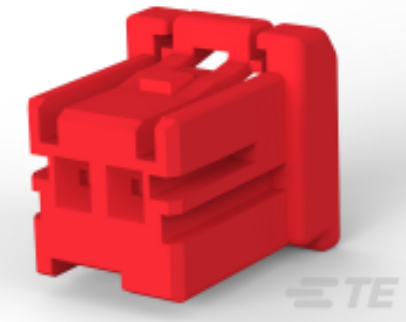
For compliance documentation, visit the product page on [TE.com](#)>

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 # 1903392-1 GIC 2.5 W CAP HSG 3P NATURAL	 TE Part # 1903391-1 GIC 2.5 W CAP HSG 2P NATURAL	 TE Part # 1-1903393-2 GIC 2.5 W CAP HSG 4P RED	 TE Part # 1747066-2 GRACE INERTIA CONN 2.5 PLUG HSG 2P NATUR
 TE Part # 1903389-1 GIC 2.5 W PLUG HSG 3P NATURAL	 TE Part # 1903388-1 GIC 2.5 W PLUG HSG 2P NATURAL	 TE Part # 1-1903391-2 GIC 2.5 W CAP HSG 2P RED	 TE Part # 1-1903388-2 GIC 2.5 W PLUG HSG 2P RED



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

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

TE Part # 3-1903393-4
GIC 2.5 W CAP HSG 4P YELLOW

TE Part # 1-2315883-2
GIC2.5W PLUG HOUSING 8POS (2-ROW) RED

TE Part # 2315883-1
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(173)

Rectangular Connector Housings(49)

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

Customers Also Bought

TE Part #2391865-2
250 sleeve PL YELLOW transparent

TE Part #1871570-1
Glow Wire GRACE INERTIA Plug

TE Part #1939983-1
GIC3.3 HDR ASS'Y 10POS 2ROW

TE Part #1903388-1
GIC 2.5 W PLUG HSG 2P NATURAL



TE Part #9-179844-1
POWER D/LOCK HDR ASSY 2P /7.92

TE Part #7-1376387-3
5.0 POWER KEY CONN.6P HDR ASSY

TE Part #1903535-1
GIC 2.5 PITCH CONN. HDR Assy (5 POS)

TE Part #5-1565088-1
GRACE INERTIA CONNECTOR 3.5W 6POS CAP

Documents

Product Drawings

GIC 2.5 W PLUG HSG 4P NATURAL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1903390-1_F_c-1903390-1-f.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1903390-1_F_c-1903390-1-f.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1903390-1_F_c-1903390-1-f.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

Agency Approvals

UL Report

English