

1565081-1 ✓ ACTIVE



GRACE INERTIA 3.5

TE Internal #: 1565081-1

Housing, Plug, Wire-to-Wire, 2 Position, 3.5 mm [.138 in] Centerline,
Wire & Cable, UL 94V-0, GRACE INERTIA 3.5, Rectangular Power
Connectors

[View on TE.com >](#)

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors > STD Temp GRACE INERTIA Plug



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Plug**

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

[All STD Temp GRACE INERTIA Plug \(25\)](#)

Features

Other

EU RoHS Compliance	Compliant
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EU ELV Compliance	Compliant
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Product Type Features

Rectangular Power Connector Type	Housing
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Connector & Housing Type	Plug
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Connector System	Wire-to-Wire
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Sealable	No
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Connector & Contact Terminates To	Wire & Cable
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Configuration Features

Number of Positions	2
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Number of Power Positions	0
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Number of Signal Positions	0
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Number of Rows	1
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Electrical Characteristics

Operating Voltage	300 VAC
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Body Features

Connector & Keying Code	A
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Contact Features

Contact Layout	Inline
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Contact Base Material	Copper Alloy
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Contact Retention Within Housing	Without
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Contact Type	Receptacle
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Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

Strain Relief	Without
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Panel Mount Feature	Without
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Mating Retention Type	Locking Latch, Latch, Inertia Locking
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PCB Mount Retention	Without
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Mating Retention	With
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Mating Alignment Type	Keyed
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Mating Alignment	With
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Connector Mounting Type	Cable Mount (Free-Hanging)
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Housing Features

Centerline (Pitch)	3.5 mm [.138 in]
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Housing Color	Natural
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Housing Material	PA 66
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Dimensions

Product Length	9.1 mm [.358 in]
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Connector Height	9.55 mm [.375 in]
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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

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

Packaging Features

Packaging Quantity	400
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	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

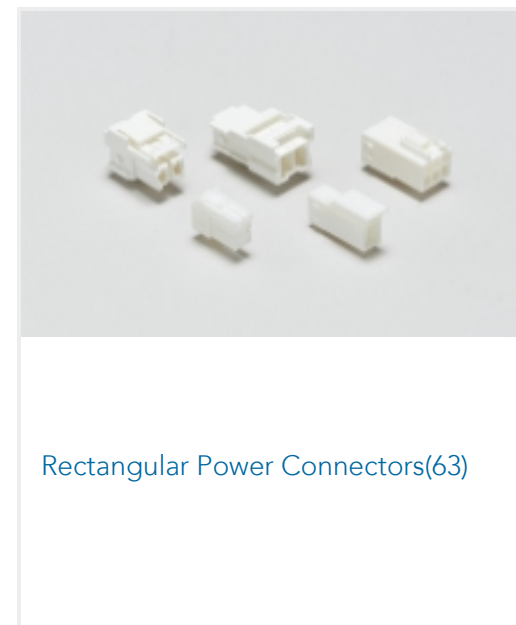
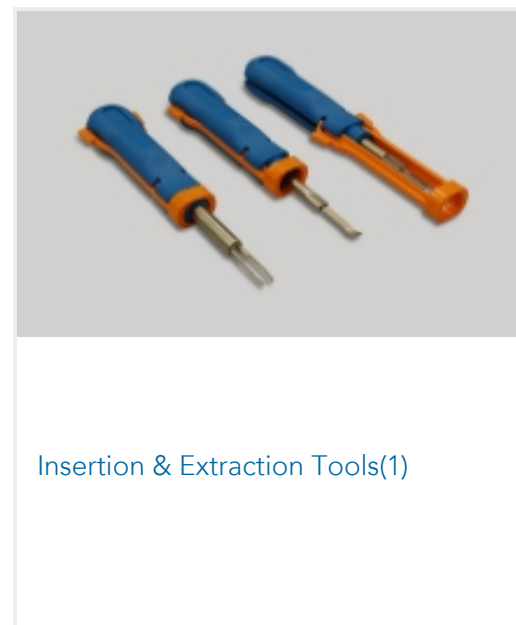
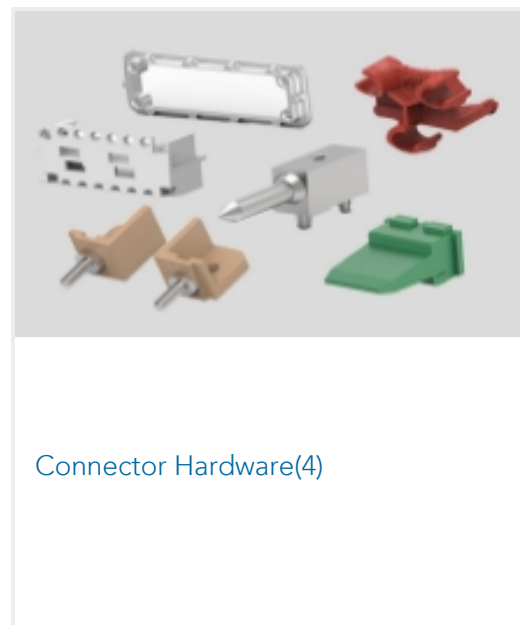
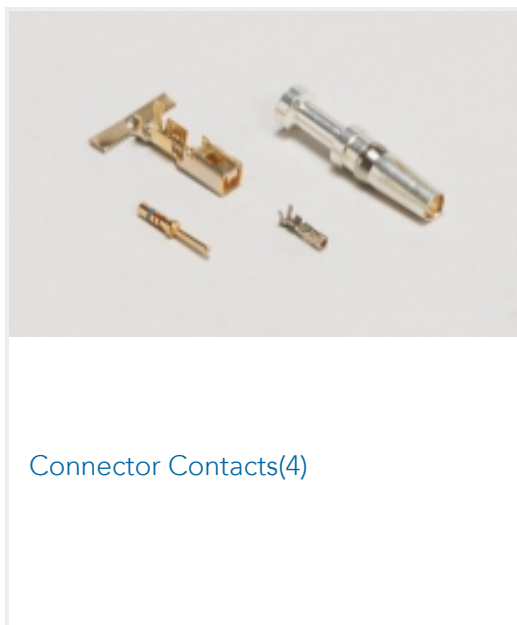
Product Compliance Disclaimer

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



Also in the Series | GRACE INERTIA 3.5



Customers Also Bought





Documents

Product Drawings

GRACE INERTIA CONNECTOR 3.5 2P

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1565081-1_J.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1565081-1_J.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1565081-1_J.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG

English

[1-1773883-5 GRACE INERTIA connector quick reference guide](#)

English

Product Specifications

Product Specification

English

Product Specification

English

Instruction Sheets

Extraction Tool for GIC 3.5 Conn.

Japanese

Instruction Sheet (non U.S.)

Japanese

Agency Approvals

UL Report

English