



GRACE INERTIA 3.5

TE Internal #: 1565081-1
Rectangular Power Connectors, Housing, Plug, Wire-to-Wire, 2
Position, 3.5 mm [.138 in] Centerline, Wire & Cable, UL 94V-0,
GRACE INERTIA 3.5

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



Rectangular Power Connector Type: **Housing**
Connector & Housing Type: **Plug**
Connector System: **Wire-to-Wire**
Number of Positions: **2**
Centerline (Pitch): **3.5 mm [.138 in]**

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

Features

Product Type Features

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

Configuration Features

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

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
Contact Base Material	Copper Alloy
Contact Retention Within Housing	Without
Contact Type	Receptacle

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

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

Housing Features

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

Dimensions

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

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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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



TE Part # CAT-G7534-R2435
GRACE INERTIA Receptacle



TE Part # 1565089-1
GRACE INERTIA CONNECTOR 3.5 2P



TE Part # 1565085-1
GRACE INERTIA CONNECTOR 3.5 2P



TE Part # 1-1565081-6
GIC 3.5W 2P PLUG(GWT) BLK



TE Part # 5-1565089-1
GRACE INERTIA CONNECTOR 3.5 2P PLATE

TE Part # 1729279-1
EXTRACTION TOOL FOR GIC 3.5 CONN.

TE Part # 5-1565085-1
GRACE INERTIA CONNECTOR 3.5W 2POS CAP

TE Part # 5-1565085-3
GRACE INERTIA CONNECTOR 3.5W 2POS CAP

Also in the Series | GRACE INERTIA 3.5

Insertion & Extraction Tools(1)

PCB Latches, Locks & Retainers(4)

Power Contacts(4)

Rectangular Power Connectors(63)

Customers Also Bought

TE Part #316768-1
POWER DBL LOCK PLUG HSG 1P

TE Part #1565079-1
GRACE INERTIA 3.5 REC CONTACT(L)

TE Part #316062-1
POWER DBL LOCK PLATE 3P /6.5MM

TE Part #1565086-1
GRACE INERTIA CONNECTOR 3.5 3P

TE Part #176281-1
UNIV POWER CAP HSG 1P F/H

TE Part #316770-1
AMP POWER DBL LOCK 1P PLATE

TE Part #1903389-1
GIC 2.5 W PLUG HSG 3P NATURAL

TE Part #353249-2
110 PL EX REC. 26-22AWG PTPHBZ

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



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

Product Environmental Compliance

MD_1565081-1_09062018655_dmtec

English

MD_1565081-1_09062018655_dmtec

English

Instruction Sheets

Extraction Tool for GIC 3.5 Conn.

Japanese

Instruction Sheet (non U.S.)

Japanese

Agency Approvals

UL Report

English

1565081-1

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