

GRACE INERTIA CONNECTOR 3.5 3P

✓ ACTIVE

Grace Inertia | GRACE INERTIA 3.5

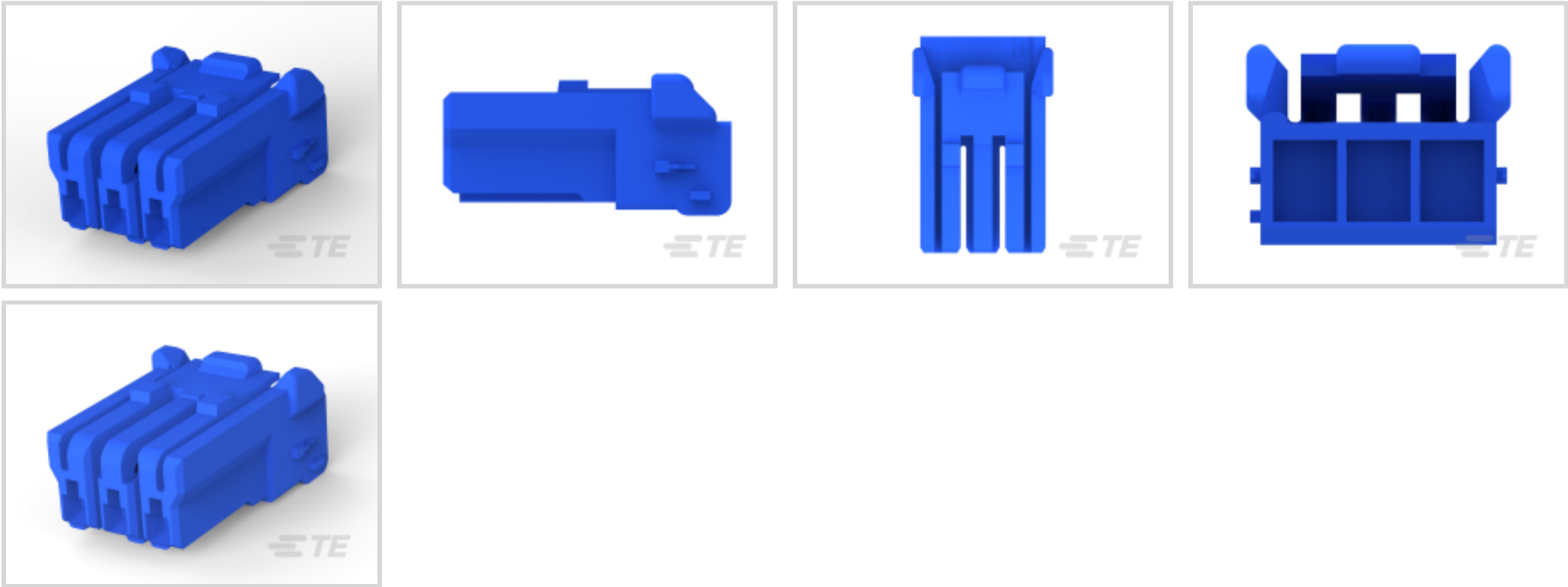
TE Part # 2-1565082-3

TE Internal #: 2-1565082-3

[View on TE.com >](#)



Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Product Type: **Housing**
Housing Type: **Plug**
Connector System: **Wire-to-Wire**
Number of Positions: **3**
Centerline (Pitch): **3.5 mm [.138 in]**

Features

Product Type Features

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

Configuration Features

Number of Positions	3
Keying	C
Number of Power Positions	0
Number of Signal Positions	0
Number of Rows	1

Electrical Characteristics

Operating Voltage	300 VAC
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Contact Features

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Contact Layout	Inline
Contact Base Material	Copper Alloy
Contact Retention	Without

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

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

Housing Features

Centerline (Pitch)	3.5 mm[.138 in]
UL Flammability Rating	UL 94V-0
Housing Color	Blue
Housing Material	Nylon 66

Dimensions

	.49 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

Glow Wire Rating	Standard Part - Not Glow Wire
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Packaging Features

Packaging Method	Bag
Packaging Quantity	400

Other

For Use With	Cap Housing
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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: JAN 2019 (197) Candidate List Declared Against: JAN 2019 (197)
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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

TE Part # 1612334-1
GRACE INERTIA 3.5 REC CONTACT(M)

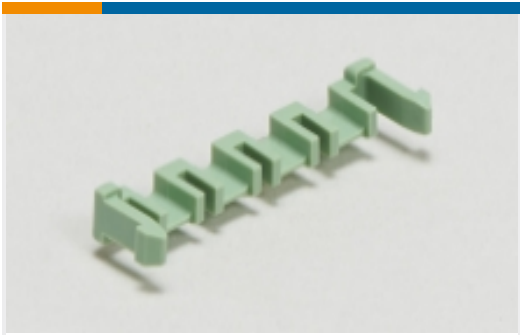
TE Part # 2-1565086-3
GRACE INERTIA CONNECTOR 3.5 3P

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

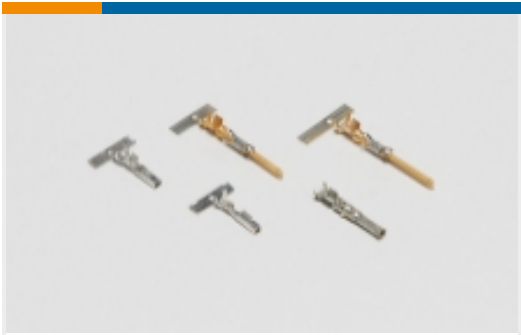
Also in the Series | GRACE INERTIA 3.5

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TE Part # 2-1565082-3
TE Internal #: 2-1565082-3



PCB Latches, Locks & Retainers(4)



Power Contacts(4)

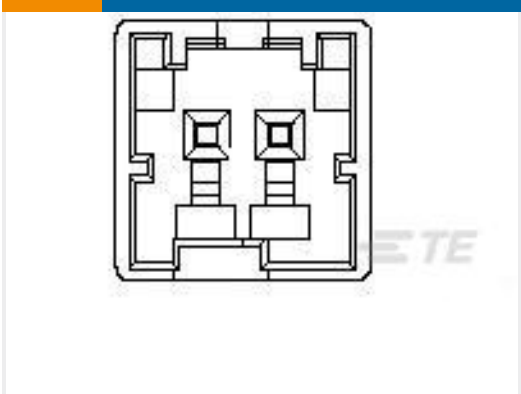


Rectangular Power Connectors(44)

Customers Also Bought



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



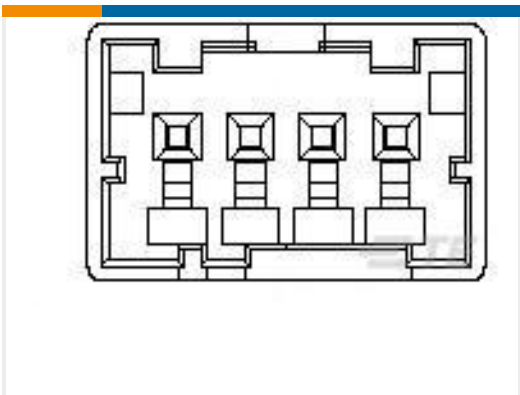
TE Part #1903391-1
GIC 2.5 W CAP HSG 2P
NATURAL



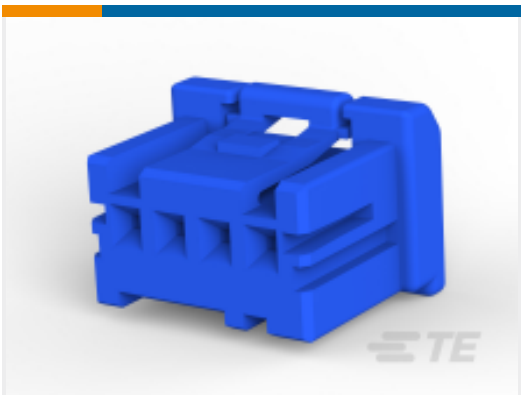
TE Part #2134904-1
GIC 2.5W CAP HSG 6P
NATURAL



TE Part #1565090-1
GRACE INERTIA
CONNECTOR 3.5 3P



TE Part #2-1903393-3
GIC 2.5 W CAP HSG 4P
BLUE



TE Part #2-1903390-3
GIC 2.5 W PLUG HSG 4P
BLUE



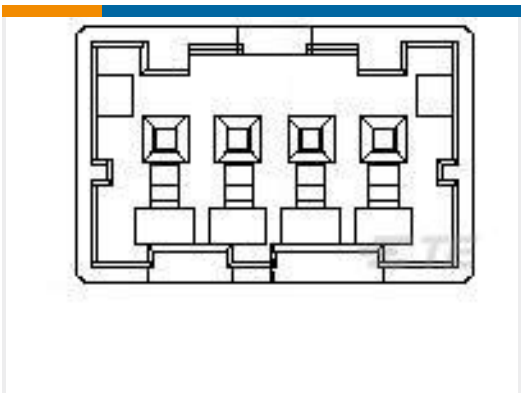
TE Part #2-1565086-3
GRACE INERTIA
CONNECTOR 3.5 3P



TE Part #1-1565081-2
GRACE INERTIA
CONNECTOR 3.5 2P



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



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

Documents

Product Drawings

GRACE INERTIA CONNECTOR 3.5 3P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-1565082-3_B_c-2-1565082-3-b.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_2-1565082-3_B_c-2-1565082-3-b.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-1565082-3_B_c-2-1565082-3-b.3d_stp.zip](#)

English

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