



GRACE INERTIA 3.5

TE Internal #: 1565079-1

Power Contacts, Contact, 300 VAC, Tin, 22 – 18 AWG Wire Size, .33 – .82 mm² Wire Size, Wire & Cable, Crimp, Power, Receptacle, GRACE INERTIA 3.5

[View on TE.com >](#)

Connectors > Power Connectors > Power Contacts > GRACE INERTIA Receptacle



Power Contact Type: **Contact**
 Operating Voltage: **300 VAC**
 Contact Mating Area Plating Material: **Tin**
 Wire Size: **.33 – .82 mm²**

[All GRACE INERTIA Receptacle \(5\)](#)

Features

Product Type Features

Compatible With Discrete Wire Type	Stranded
Power Contact Type	Contact
Connector & Contact Terminates To	Wire & Cable

Electrical Characteristics

Operating Voltage	300 VAC
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Contact Features

Contact Mating Area Plating Material	Tin
Contact Current Rating (Max)	7 A
Contact Type	Receptacle
Contact Retention Within Housing	With
Mating Tab Width	1.2 mm[.047 in]
Mating Tab Thickness	.5 mm[.02 in]
Contact Base Material	Copper Alloy
Wire Contact Termination Area Plating Material	Pre-Tin
Contact Orientation	Straight

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

Contact Retention Type Within Housing	Locking Lance
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Wire Insulation Support	Without
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Dimensions

Wire Size	.33 – .82 mm ²
Compatible Insulation Diameter Range	1.5 – 2.7 mm [.059 – .106 in]

Usage Conditions

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

Circuit Application	Power
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Packaging Features

Packaging Quantity	5000
Packaging Method	Reel

Other

Power Connectors Comment	Use with Grace Inertia Connector 3.5
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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: 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-P729 STD Temp GRACE INERTIA Plug	TE Part # CAT-G7534-T111 GRACE INERTIA Tab	TE Part # 2305570-1 Strip Terminal Cutter-Side Feed-No Crimp	TE Part # 1612334-1 GRACE INERTIA 3.5 REC CONTACT (M)
TE Part # 2-2151077-1 OCEAN_2.0_Applicator-S-070F110F	TE Part # 2-2151077-2 OCEAN_2.0_Applicator-S-070F110F	TE Part # 2151077-1 OCEAN_2.0_Applicator-S-070F110F	TE Part # 2151077-2 OCEAN_2.0_Applicator-S-070F110F
TE Part # 7-2151077-1 OCEAN_2.0_Applicator-S-070F110F	TE Part # 7-2151077-2 OCEAN_2.0_Applicator-S-070F110F	TE Part # 7-2151077-7 OCEAN_2.0_SPARE_PART_KIT-070F110F	TE Part # 2-2357095-3 GRACE INERTIA 3.5W PLUG 12P BLU
TE Part # 2-2357092-3 GRACE INERTIA 3.5W PLUG 10P BLU	TE Part # 1-2357092-2 GRACE INERTIA 3.5W PLUG 10P RED	TE Part # 3-2357089-4 GRACE INERTIA 3.5W PLUG 8P YEL	TE Part # 1-2357089-2 GRACE INERTIA 3.5W PLUG 8P RED



TE Part # 2-2357089-3
GRACE INERTIA 3.5W PLUG 8P BLU

TE Part # 2357089-1
GRACE INERTIA 3.5W PLUG 8P NAT

TE Part # 2357092-1
GRACE INERTIA 3.5W PLUG 10P NAT

TE Part # 1-2357095-2
GRACE INERTIA 3.5W PLUG 12P RED

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 #178327-5
DYNAMIC D/ROW HDR 16P V ASSY

TE Part #1565084-1
STD Temp GRACE INERTIA Plug

TE Part #1565088-1
GRACE INERTIA CONNECTOR 3.5 6P

TE Part #5-1565090-1
GIC 3.5 3P DBL LOCK PLATE PBT (BLACK)

TE Part #5-917698-1
2.5 SIGNAL DBL LOCK D.L.P 2P

Documents

Product Drawings

GRACE INERTIA 3.5 REC CONTACT(L)

English

CAD Files

3D PDF

3D

**Customer View Model**[ENG_CVM_CVM_1565079-1_B.2d_dxf.zip](#)

English

Customer View Model[ENG_CVM_CVM_1565079-1_B.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_CVM_1565079-1_B.3d_stp.zip](#)

English

3D PDF

English

Customer View Model[ENG_CVM_1565079-1_O.2d_dxf.zip](#)

English

Customer View Model[ENG_CVM_1565079-1_O.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_1565079-1_O.3d_stp.zip](#)

English

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Datasheets & Catalog Pages[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

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

English

Product Specifications[Engineering Report](#)

English

Product Environmental Compliance[MD_1565079-1_09062018655_dmtec](#)

English

[MD_1565079-1_09062018655_dmtec](#)

English

Instruction Sheets[Extraction Tool for GIC 3.5 Conn.](#)

Japanese

[Instruction Sheet \(non U.S.\)](#)

Japanese