



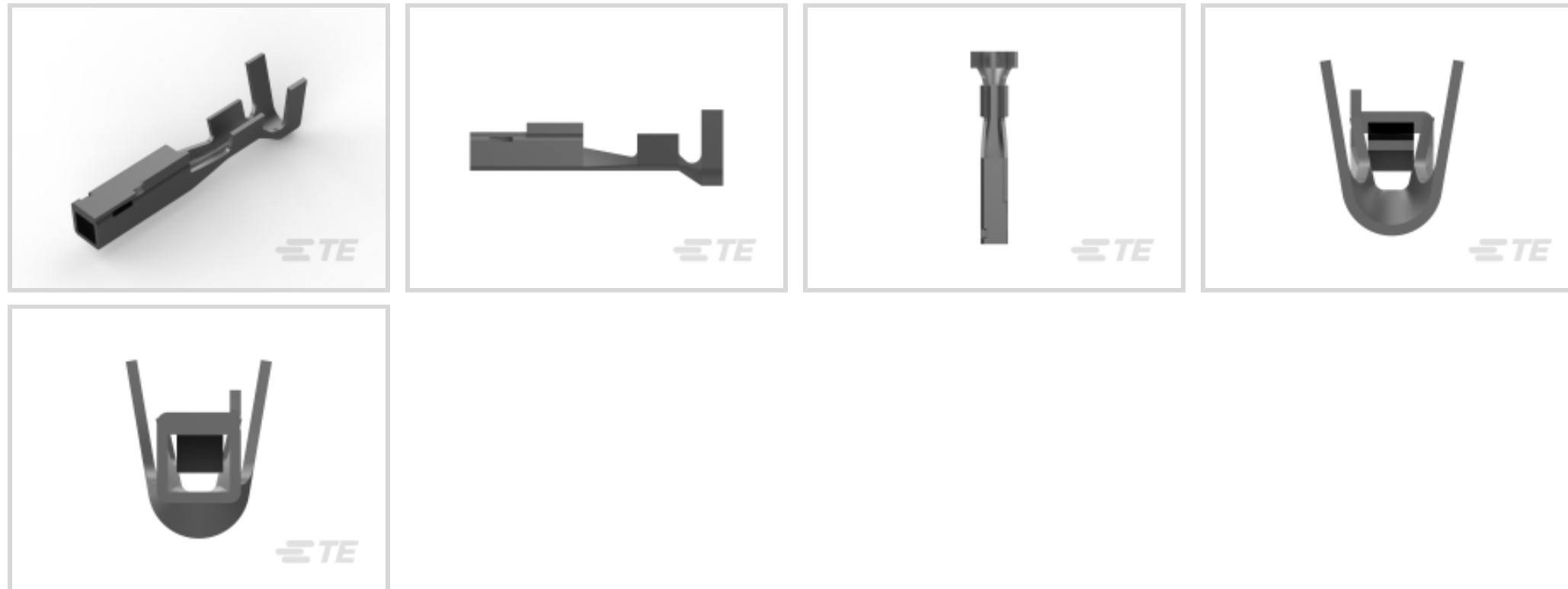
GRACE INERTIA 3.5

TE Internal #: 1612334-1

Power Contacts, Contact, 300 VAC, Pre-Tin, 26 – 22 AWG Wire Size, .13 – .33 mm² Wire Size, Wire-to-Wire, Wire & Cable, Crimp, Power, 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: **Pre-Tin**

Wire Size: **.13 – .33 mm²**

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

Features

Product Type Features

Power Contact Type	Contact
Connector System	Wire-to-Wire
Connector & Contact Terminates To	Wire & Cable

Electrical Characteristics

Operating Voltage	300 VAC
Insulation Resistance	1000

Contact Features

Contact Mating Area Plating Material	Pre-Tin
Contact Current Rating (Max)	4 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
Connector Mounting Type	Cable Mount (Free-Hanging)
Wire Insulation Support	Without

Dimensions

Wire Size	.13 – .33 mm ²
Accepts Wire Insulation Diameter Range	1.3 – 2 mm [.051 – .079 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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Industry Standards

Glow Wire Rating	Standard Part - Not Glow Wire
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Packaging Features

Packaging Method	Reel
Packaging Quantity	6000

Other

Wire/Cable Type	Discrete Wire
Wire Type	Stranded
For Use With	Tab Contact
Comment	Use with Grace Inertia Connector 3.5

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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 2022 (224)

Candidate List Declared Against: JAN 2022 (223)

SVHC > Threshold:
Not Yet Reviewed

Halogen Content

Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

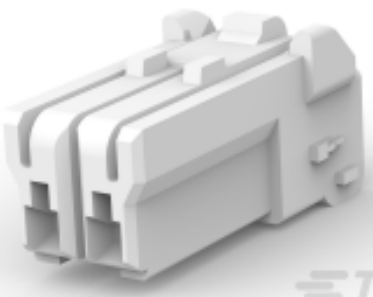
Solder Process Capability

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



TE Part # CAT-G7534-T111
GRACE INERTIA Tab



TE Part # 2305570-1
TERMINAL CUTTER, SIDE FEED



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



TE Part # 2-2151118-1
OCEAN_2.0_Applicator-S-055F100F



TE Part # 2-2151118-2
OCEAN_2.0_Applicator-S-055F100FA



TE Part # 2151118-1
OCEAN_2.0_Applicator-S-055F100F




TE Part # 2151118-2
OCEAN_2.0_Applicator-S-055F100FA



TE Part # 4-1565085-1
GIC 3.5W 2P CAP E



TE Part # 4-1565085-2
GIC 3.5W 2P CAP F



TE Part # 4-1565085-4
GIC 3.5W 2P CAP H



TE Part # 7-2151118-1
OCEAN_2.0_Applicator-S-055F100F



TE Part # 7-2151118-2
OCEAN_2.0_Applicator-S-055F100FA



TE Part # 7-2151118-7
OCEAN_2.0_SPARE_PART_KIT-055F100F



TE Part # 1-2357092-2
GRACE INERTIA 3.5W PLUG 10P RED



TE Part # 1-2357089-2
GRACE INERTIA 3.5W PLUG 8P RED



TE Part # 2-2357092-3
GRACE INERTIA 3.5W PLUG 10P BLU




TE Part # 2-2357095-3
GRACE INERTIA 3.5W PLUG 12P BLU

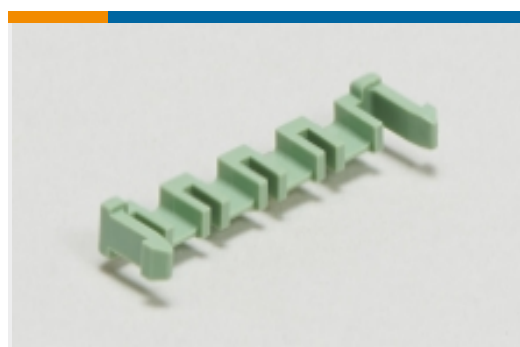


TE Part # 3-2357089-4
GRACE INERTIA 3.5W PLUG 8P YEL

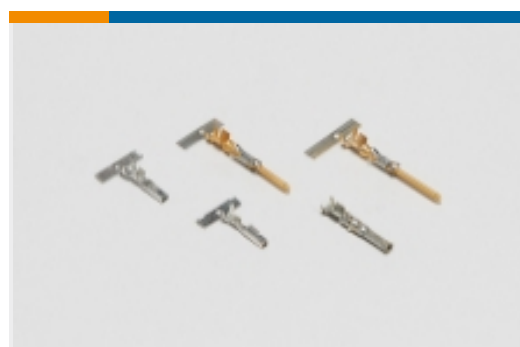
Also in the Series | GRACE INERTIA 3.5



Insertion & Extraction Tools(1)



PCB Latches, Locks & Retainers(4)



Power Contacts(4)



Rectangular Power Connectors(63)

Customers Also Bought



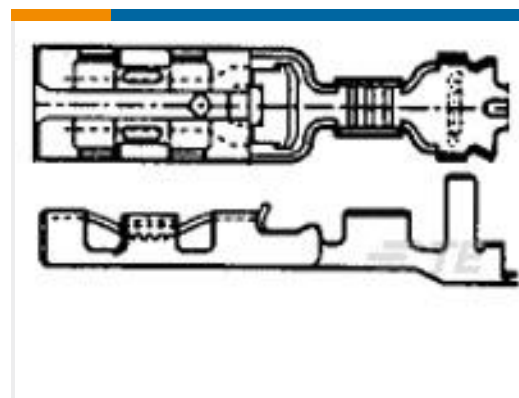
TE Part #178481-1
UP 3.96 4P PLUG HSG NATRL



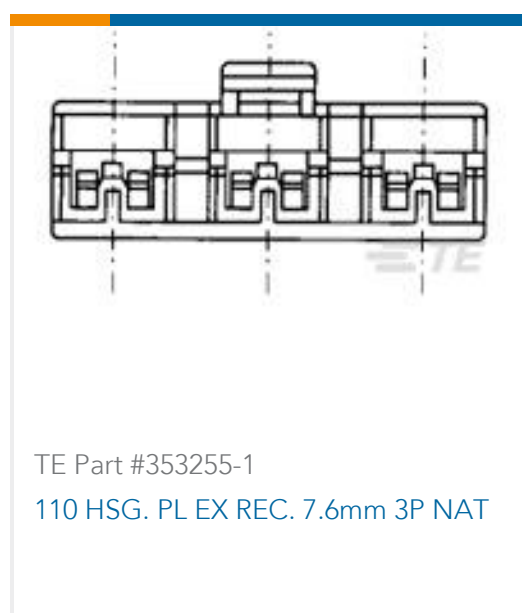
TE Part #2-1565085-3
STD Temp GRACE INERTIA Cap



TE Part #1-2232572-2
GIC 2.5 W CAP HSG 3P RED



TE Part #353250-2
110 PL EX REC. 20-16AWG PTPHBZ



Documents

Product Drawings

GRACE INERTIA 3.5 REC CONTACT(M)

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1612334-1_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1612334-1_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1612334-1_C.3d_stp.zip](#)

English

3D PDF

English

Customer View Model

[ENG_CVM_1612334-1_O.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_1612334-1_O.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_1612334-1_O.2d_dxf.zip](#)

English

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

Datasheets & Catalog Pages

SOFT_SHELL_PIN_SOCKET_CONNECTORS_STANDARD_DENSITY

English

1-1773883-5 GRACE INERTIA connector quick reference guide

English



Product Specifications

Engineering Report

English

Product Environmental Compliance

MD_1612334-1_090720172118_dmtec

English

MD_1612334-1_090720172118_dmtec

English

Instruction Sheets

Extraction Tool for GIC 3.5 Conn.

Japanese

Instruction Sheet (non U.S.)

Japanese