

GRACE INERTIA 2.0

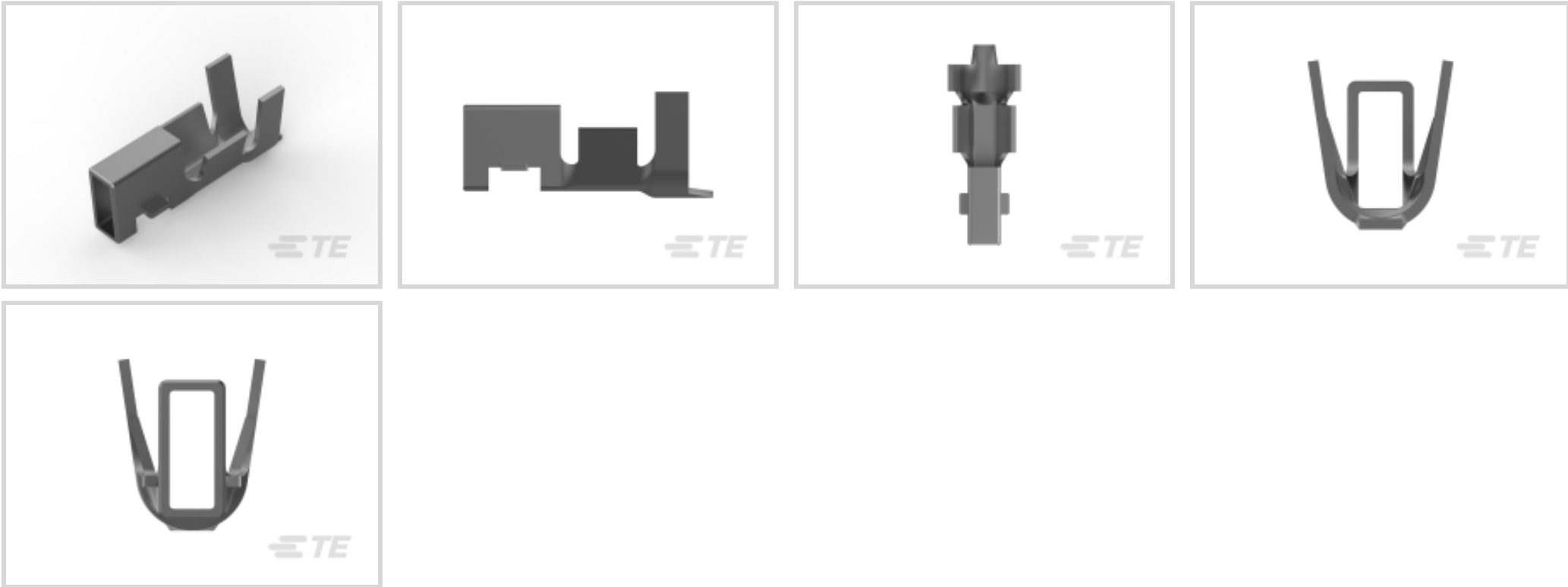
TE Internal #: 1971031-1

Socket Contact, Tin, 50 VAC, 50 VDC, Locking Lance Contact Retention, Discrete Wire, 28 – 24 AWG Wire Size, GRACE INERTIA 2.0

[View on TE.com >](#)



Connectors > Contacts > Connector Contacts > Sig GRACE INERTIA Receptacle



Contact Type: **Socket**
Contact Mating Area Plating Material: **Tin**
Operating Voltage: **50 VDC**
Contact Retention Within Housing: **With**

[All Sig GRACE INERTIA Receptacle \(8\)](#)

Features

Configuration Features

Compatible With Wire & Cable Type	Discrete Wire
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Electrical Characteristics

Insulation Resistance	1000 MΩ
Operating Voltage	50 VDC

Contact Features

Mating Square Post Dimension	.5 mm[.019 in] 31.49 – 78.74 μin
Contact Mating Area Plating Material Thickness	.8 – 2 μm[31.49 – 78.74 μin]
Contact Underplating Material	Copper
Contact Type	Socket
Contact Mating Area Plating Material	Tin
Contact Retention Within Housing	With
Contact Base Material	Phosphor Bronze



Contact Current Rating (Max)	2.2 A
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Termination Features

Termination Method to Wire & Cable	Crimp
Product Terminates To	Wire & Cable

Mechanical Attachment

Contact Retention Type Within Housing	Locking Lance
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Dimensions

Compatible Insulation Diameter Range	.98 – 1.58 mm [.039 – .062 in]
Wire Size	.079 – .24 mm ²

Usage Conditions

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

Circuit Application	Signal
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Packaging Features

Packaging Quantity	8000
Packaging Method	Reel

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

 TE Part # 2134384-1 GIC 2.5 REC CONT TIN PLATE TYPE (2L TYPE)	 TE Part # 2151076-1 OCEAN_2.0_APPLICATOR-S-042F057F-RSM	 TE Part # 2151076-2 OCEAN_2.0_APPLICATOR-S-042F057F-RSA	 TE Part # 2305570-1 Strip Terminal Cutter-Side Feed-No Crimp
 TE Part # 7-2151076-7 OCEAN_2.0_SPARE_PART_KIT-042F057F	 TE Part # 2400015-1 GIC2.0 EV TAB CONTACT	 TE Part # 1999798-1 SAHT GIC 2.0 EV 28-24 ASSY	

Also in the Series | GRACE INERTIA 2.0

 Connector Contacts(3)	 PCB Headers & Receptacles(70)	 Rectangular Connector Housings(20)	 Standard Rectangular Connectors(18)
 Wire-to-Board Connector Assemblies & Housings(1)			



Customers Also Bought



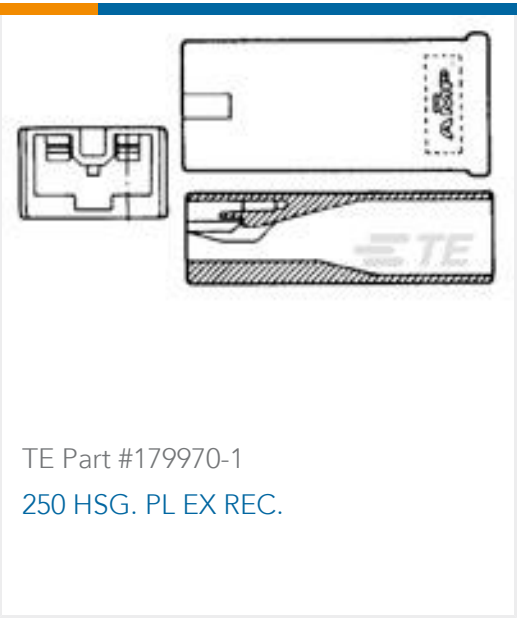
TE Part #172520-5
5P 2.5MM MINI AMP-IN HDR HSG



TE Part #1-176497-1
250 HSG. PL EX FLAG REC. NAT



TE Part #179975-1
250 PL EX REC. 15-10AWG PTBR



TE Part #179970-1
250 HSG. PL EX REC.



TE Part #1971030-8
STD Temp Sig GRACE INERTIA Plug



TE Part #1-172131-1
FF 250 CAP HSG 3P NYLON NAT



TE Part #170349-1
FF 250 TAB 22-20AWG BR WITHOUT LATCH

Documents

Product Drawings

Receptacle contact for GIC 2.0

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1971031-1_G_c-1971031-1-g.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1971031-1_G_c-1971031-1-g.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1971031-1_G_c-1971031-1-g.3d_stp.zip

English

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

Product Specifications

Application Specification

English