



GRACE INERTIA | GRACE INERTIA 2.0

TE Internal #: 1971031-1

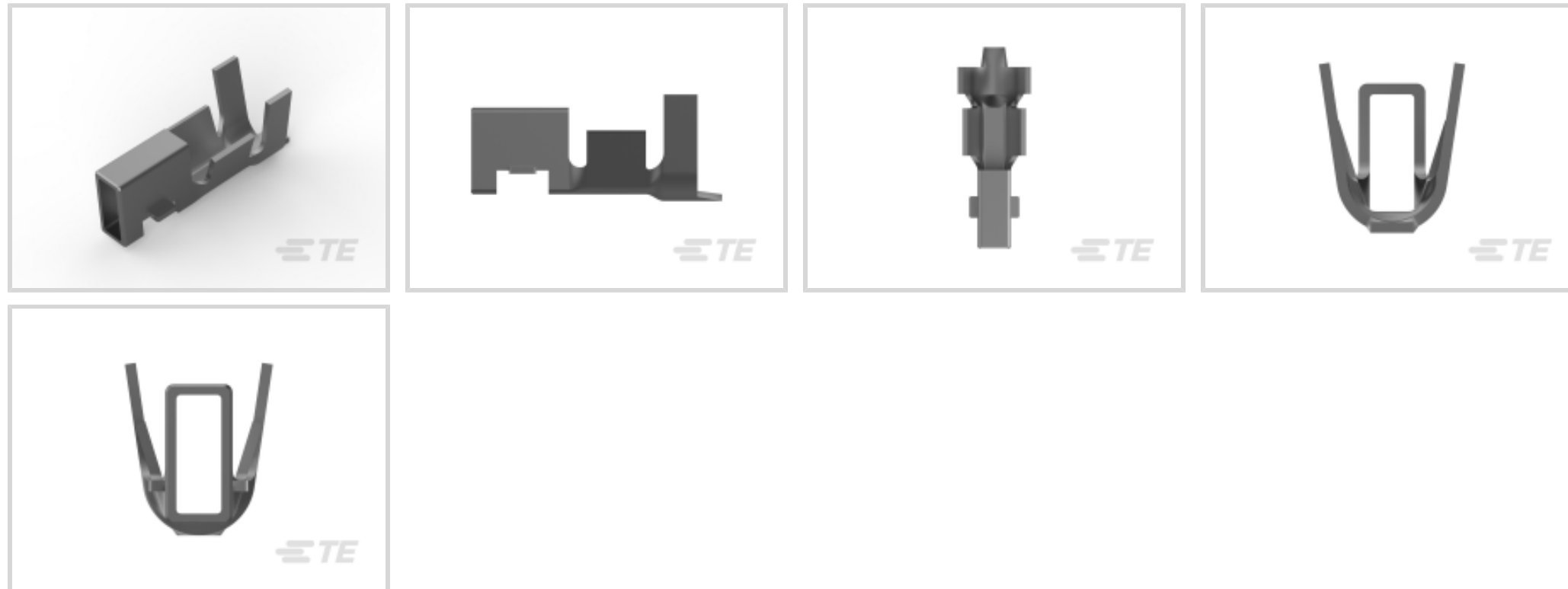
Socket Contact, 28 – 24 AWG, 50 VAC, 50 VDC, .079 – .24 mm²

Wire, Locking Lance Contact Retention, Tin (Sn), Discrete Wire,

Crimp, 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 (Sn)**

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

	31.49 – 78.74 μin
Contact Underplating Material	Copper
Contact Mating Area Plating Material Thickness	.8 – 2 μm[31.49 – 78.74 μin]
Mating Square Post Dimension	.5 mm[.019 in]
Contact Type	Socket
Contact Mating Area Plating Material	Tin (Sn)
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 Method	Reel
Packaging Quantity	8000

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 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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



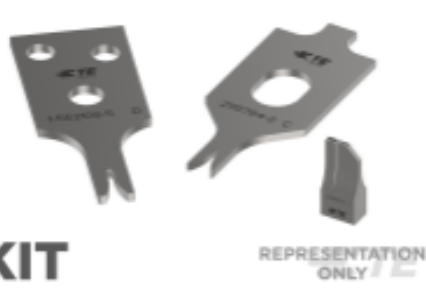
TE Part # 2151076-1
 OCEAN_2.0_APPLICATOR-S-042F057F-RSM



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

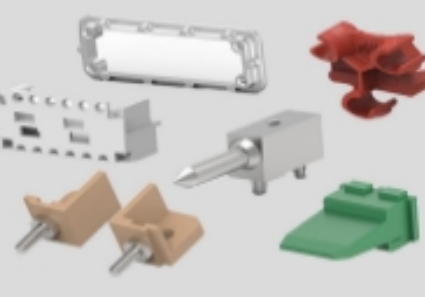


TE Part # 2134384-1
 GIC 2.5 REC CONT TIN PLATE TYPE (2L TYPE)

Also in the Series | GRACE INERTIA 2.0




Connector Contacts(6)




Connector Hardware(9)




PCB Headers & Receptacles(70)



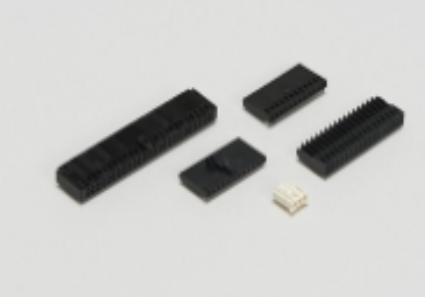
Rectangular Connector Housings(22)



Rectangular Power Connectors(1)



Standard Rectangular Connectors(40)



Wire-to-Board Connector Assemblies & Housings(40)



Wire-to-Board Headers & Receptacles (70)

Customers Also Bought



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.

1971031-1

Socket Contact, 28 – 24 AWG, 50 VAC, 50 VDC, .079 – .24 mm² Wire, Locking Lance
Contact Retention, Tin (Sn), Discrete Wire, Crimp, GRACE INERTIA 2.0



[Product Specifications](#)

[Application Specification](#)

English