



GRACE INERTIA 2.5

TE Internal #: 1747591-1

Socket Contact, Gold, 50 VAC, 50 VDC, Locking Lance Contact Retention, Discrete Wire, 22 - 20 AWG Wire Size, GRACE INERTIA 2.5

[View on TE.com >](#)

Connectors > Contacts > Connector Contacts > Sig GRACE INERTIA Receptacle



Contact Type: **Socket**
Contact Mating Area Plating Material: **Gold**
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 Tab Width	.5 mm[.02 in]
Mating Tab Thickness	.46 mm[.018 in]
Contact Underplating Material	Nickel
Contact Type	Socket
Contact Mating Area Plating Material	Gold
Contact Retention Within Housing	With
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	3 A



Termination Features

Rectangular Termination Post & Tail Thickness	.5 mm[.02 in]
Rectangular Termination Post & Tail Width	.7 mm[.027 in]
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	1.4 - 1.9 mm[.055 - .075 in]
Wire Size	.31 - .53 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	6000
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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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 # 1747066-4 GRACE INERTIA CONN 2.5 PLUG HSG 4P NATUR	 TE Part # 1747066-2 GRACE INERTIA CONN 2.5 PLUG HSG 2P NATUR	 TE Part # 1747066-6 GRACE INERTIA CONN 2.5 PLUG HSG 6P NATUR	 TE Part # 1747066-5 GRACE INERTIA CONN 2.5 PLUG HSG 5P NATUR
 TE Part # 1-1747066-2 GRACE INERTIA CONN 2.5 PLUG HSG 2P RED	 TE Part # 1747066-3 GRACE INERTIA CONN 2.5 PLUG HSG 3P NATUR	 TE Part # 2-1747066-4 GRACE INERTIA CONN 2.5 PLUG HSG 4P BLUE	 TE Part # 2134384-1 GIC 2.5 REC CONT TIN PLATE TYPE (2L TYPE)
 TE Part # 1747066-8 GRACE INERTIA CONN 2.5 PLUG HSG 8P NATUR	 TE Part # 2-1747066-6 GRACE INERTIA CONN 2.5 PLUG HSG 6P BLUE	 TE Part # 1-1747066-6 GRACE INERTIA CONN 2.5 PLUG HSG 6P RED	 TE Part # 1729805-1 SDE SAHT GIC 2.5 REC L 22-20 ASSY

Also in the Series | GRACE INERTIA 2.5



Connector Contacts(6)



Connector Hardware(7)



PCB Headers & Receptacles(138)



Rectangular Connector Housings(49)

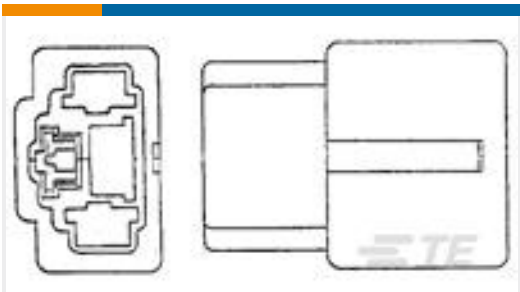


Rectangular Power Connectors(35)



Wire-to-Board Connector Assemblies & Housings(46)

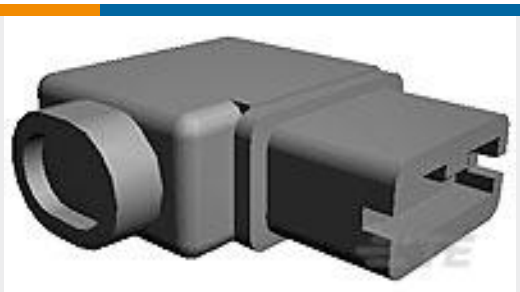
Customers Also Bought



TE Part # 176773-5
FF 250 CAP HSG 3P NYLON NAT



TE Part # 179464-1
POWER DBL LOCK CAP HSG F/H 3P



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



TE Part # 175024-1
250 PL EX REC. 15-10AWG PTBR



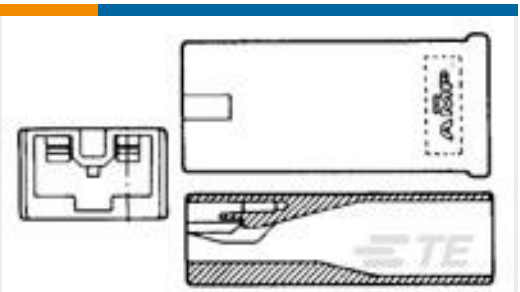
TE Part # 175057-1
250 PL EX FLAG REC. 18-12AWG PTBR



TE Part # 41802
250 FASTON FLAG REC 18-12 AWG TPBR



TE Part # 1376476-1
2.5 SIGNAL MATE REC CONTACT



TE Part # 179970-6
PL EXII 250 REC HSG 1P NYLON BLUE

Documents

Product Drawings

GRACE INERTIA CONN 2.5 REC CONTACT

English

CAD Files

Customer View Model

ENG_CVM_CVM_1747591-1_H.2d_dxf.zip

English

3D PDF



3D

Customer View Model

[ENG_CVM_CVM_1747591-1_H.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1747591-1_H.3d_stp.zip](#)

English

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Product Specifications

Application Specification

Japanese

Application Specification

English