

1746973-1 ✓ ACTIVE



## GRACE INERTIA 6.2

TE Internal #: 1746973-1

Power Contacts, Contact, 600 VAC, 600 VDC, Pre-Tin, 16 – 14 AWG

Wire Size, 1.31 – 2.18 mm<sup>2</sup> Wire Size, Wire-to-Wire, Wire & Cable,

GRACE INERTIA 6.2

[View on TE.com >](#)

Connectors > Power Connectors > Power Contacts > GRACE INERTIA Tab



Power Contact Type: **Contact**

Operating Voltage: **600 VDC**

Contact Mating Area Plating Material: **Pre-Tin**

Wire Size: **16 – 14 AWG**

[All GRACE INERTIA Tab \(4\)](#)

## Features

### Product Type Features

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

### Electrical Characteristics

Operating Voltage	600 VDC
Insulation Resistance	1000

### Contact Features

Contact Mating Area Plating Material	Pre-Tin
Contact Current Rating (Max)	15 A
Contact Type	Tab
Contact Retention Within Housing	With
Mating Tab Width	3.1 mm[.122 in]
Mating Tab Thickness	.8 mm[.3 in]



Contact Base Material	Copper Alloy
Wire Contact Termination Area Plating Thickness	.8 – 1.4 μm[31.49 – 55.11 μin]
Wire Contact Termination Area Plating Material	Pre-Tin
Wire Contact Termination Area Plating Material Finish	Bright
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	1.31 – 2.18 mm <sup>2</sup>
Accepts Wire Insulation Diameter Range	2 – 3.75 mm[.079 – .148 in]

### Usage Conditions

Operating Temperature Range	-40 – 105 °C[-40 – 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	2000

### Other

Wire/Cable Type	Discrete Wire
Wire Type	Stranded
For Use With	Receptacle (Socket) Contact
Comment	High current

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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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

 <p>TE Part # 2305570-1 TERMINAL CUTTER, SIDE FEED</p>	 <p>TE Part # CAT-G7534-C1701 STD Temp GRACE INERTIA Cap</p>	 <p>TE Part # 2151852-1 OCEAN_2.0_Applicator-S-110F160F</p>	 <p>TE Part # 1729675-1 SAHT GIC 6.2MM PITCH 16-14 ASSY</p>
 <p>TE Part # 2-2151852-1 OCEAN_2.0_Applicator-S-110F160F</p>	 <p>TE Part # 2-2151852-2 OCEAN_2.0_Applicator-S-110F160FA</p>	 <p>TE Part # 2151851-1 OCEAN-2.0-APPLICATOR-S-042F059F</p>	 <p>TE Part # 2151852-2 OCEAN_2.0_Applicator-S-110F160FA</p>



TE Part # 4-1746978-1  
GRACE INERTIA 6.2mm PITCH CAP  
3POS



TE Part # 7-2151852-1  
OCEAN\_2.0\_Applicator-S-110F160F

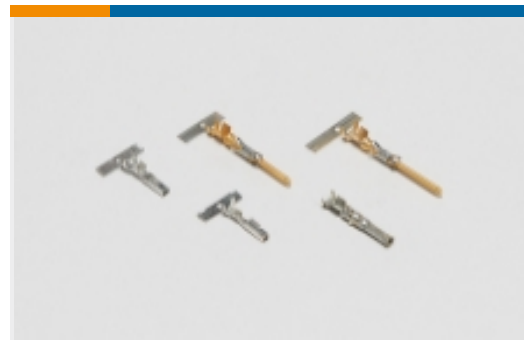


TE Part # 7-2151852-2  
OCEAN\_2.0\_Applicator-S-110F160FA




**KIT**  
REPRESENTATION ONLY  
TE Part # 7-2151852-7  
OCEAN\_2.0\_SPARE\_PART\_KIT-  
110F160F


Also in the Series | **GRACE INERTIA 6.2**



Power Contacts(4)



Rectangular Connector Locking(1)



Rectangular Power Connectors(13)

Customers Also Bought



TE Part #1565080-1  
GRACE INERTIA 3.5 TAB CONTACT(L)



TE Part #176282-4  
AMP UNIVERSAL POWER CAP 2P



TE Part #176498-1  
POSITIVE LOCK 187 (4.8 MM)  
HOUSING



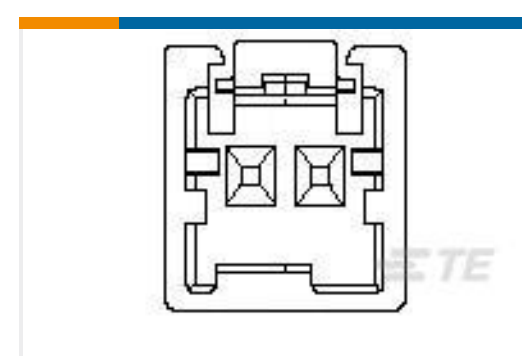
TE Part #173974-1  
187 HSG. PL MKII REC. NAT



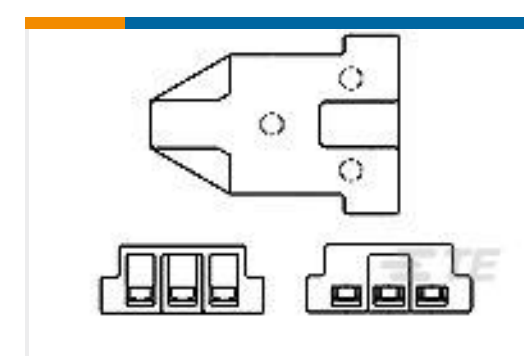
TE Part #175024-1  
250 PL EX REC. 15-10AWG PTBR



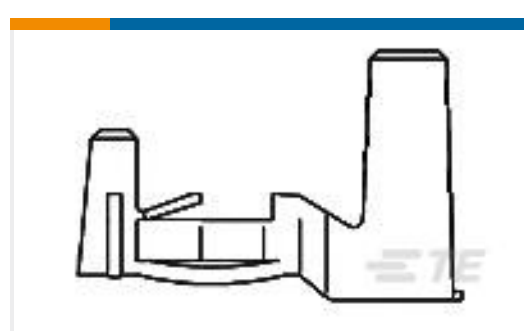
TE Part #1376477-5  
2.5MM PITCH SIGNAL MATE CONN



TE Part #1-1903388-2  
GIC 2.5 W PLUG HSG 2P RED



TE Part #1-171370-2  
2.3DIA CLUSTER BLOCK



TE Part #1871865-1  
BOARD-IN CONTACT M-TYPE





## Documents

### Product Drawings

#### GRACE INERTIA CONNECTOR 6.2MM PITCH TAB

Japanese

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### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1746973-1\\_C.2d\\_dxf.zip](#)

English

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1746973-1\\_C.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1746973-1\\_C.3d\\_stp.zip](#)

English

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

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### Datasheets & Catalog Pages

#### 1-1773883-5 GRACE INERTIA connector quick reference guide

English

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### Product Specifications

#### Application Specification

English

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### Product Environmental Compliance

[MD\\_1746973-1\\_053120182358\\_dmtec](#)

English

[MD\\_1746973-1\\_053120182358\\_dmtec](#)

English

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### Instruction Sheets

#### Extraction Tool For Grace Inertia Connector

Japanese

#### Instruction Sheet (non U.S.)

Japanese