

1747049-1 ✓ ACTIVE



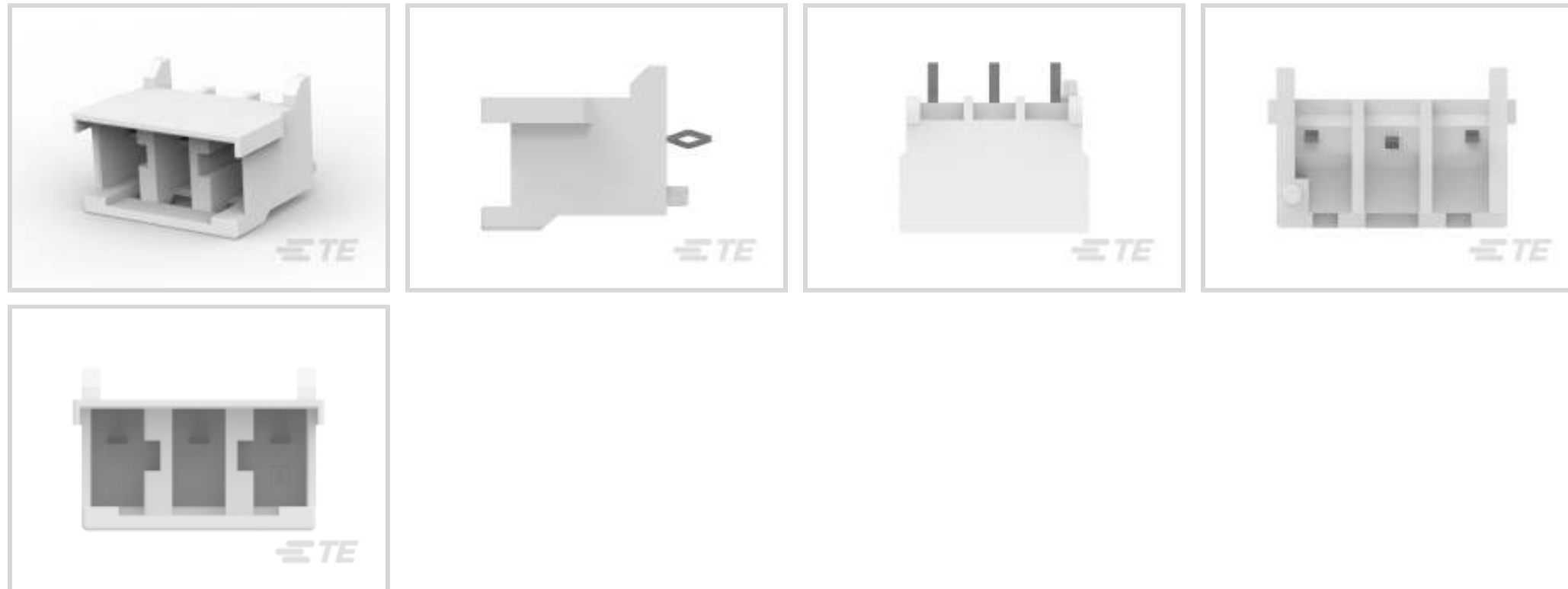
## GRACE INERTIA 6.5

TE Internal #: 1747049-1

Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 3 Position, 6.5 mm [.255 in] Centerline, Printed Circuit Board, GRACE INERTIA 6.5

[View on TE.com >](#)

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

Connector System: **Wire-to-Board**

Number of Positions: **3**

Centerline (Pitch): **6.5 mm [.255 in]**

### Features

#### Product Type Features

Header Type	Fully Shrouded
Rectangular Power Connector Type	Header
Connector & Housing Type	Receptacle
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

#### Configuration Features

Number of Positions	3
PCB Mount Orientation	Vertical
Number of Power Positions	3
Number of Signal Positions	3
Number of Rows	1

#### Electrical Characteristics

Operating Voltage	300 VDC
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### Body Features

Connector & Keying Code	A
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### Contact Features

PCB Contact Termination Area Plating Material Thickness	.8 $\mu\text{m}$ [31.496 $\mu\text{in}$ ]
Contact Layout	Inline
Mating Tab Width	1.5 mm[.059 in]
Contact Underplating Material Thickness	.8 – 3 $\mu\text{m}$ [31.496 – 118.11 $\mu\text{in}$ ]
Contact Mating Area Plating Material	Tin
Contact Underplating Material	Nickel
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	9 A
Contact Retention Within Housing	With
Contact Type	Tab
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.8 $\mu\text{m}$ [31.5 $\mu\text{in}$ ]

### Termination Features

Termination Post & Tail Length	4.4 mm[.173 in]
Termination Method to Wire & Cable	Crimp
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

Strain Relief	Without
Mating Alignment Type	Keyed
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	Without
Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Kinked
Mating Retention Type	Inertia Locking, Latch
Connector Mounting Type	Board Mount

### Housing Features

Centerline (Pitch)	6.5 mm[.255 in]
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Housing Color	Natural
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Housing Material	Nylon 6/6 GF
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### Dimensions

Connector Height	14.5 mm[.57 in]
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PCB Thickness (Recommended)	.06 mm[1.6 in]
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Product Length	20.1 mm[.791 in]
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Wire Size	434.18 – 2723.46 CMA
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### Usage Conditions

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

Circuit Application	Power & Signal
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### Industry Standards

UL Flammability Rating	UL 94V-0
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Glow Wire Rating	GWT 750°C (Without Flame)
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### Packaging Features

Packaging Quantity	250
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Packaging Method	Bag
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### 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
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JAN 2023 (233) Does not contain REACH SVHC
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Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Wave solder capable to 265°C
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#### 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-P729A  
Glow Wire GRACE INERTIA Plug



TE Part # 2-2232876-1  
GIC6.0MM CONNECTOR HEAD HOUSING ASS 2POS



TE Part # 3-2232876-1  
GIC6.0MM CONNECTOR HEAD HOUSING ASS 3POS



TE Part # 1-1747049-2  
GIC 6.5MM PITCH CONN HDR ASS'Y 3POS RED



TE Part # 2-1747049-1  
GRACE INERTIA CONNECTOR 6.5 3POS HEADER



TE Part # 2-1747049-3  
GIC 6.5MM PITCH CONN HDR ASS'Y 3POS BLUE



TE Part # 3-1747049-4  
GIC 6.5MM CONN HDR ASS'Y 3POS YELLOW




TE Part # 3-2232876-3  
GIC6.0MM CONNECTOR HEAD HOUSING ASS 3POS



TE Part # 3-2232876-4  
GIC6.0MM CONNECTOR HEAD HOUSING ASS 3POS

## Also in the Series | GRACE INERTIA 6.5



Rectangular Power Connectors(2)

## Customers Also Bought



TE Part #179848-1  
STD Temp Power Double Lock Header



TE Part #5-1747072-3  
GRACE INERTIA CONN 2.5 ON TAPE HDR 3P NA



TE Part #1-1971817-4  
4P,RAST 2.5 Tab Header,Ex- Locking, THV



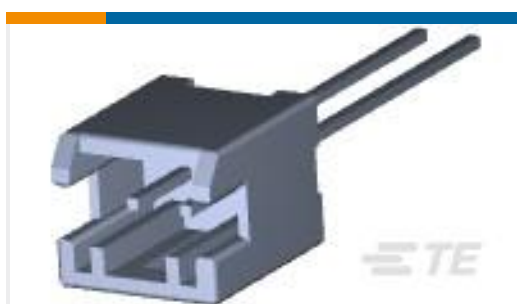
TE Part #1827393-1  
GIC 3.3 HDR ASSY 8P



TE Part #5-1376386-1  
5.0 POWER KEY CONNECTOR 4P (2R)



TE Part #5-1747072-4  
GRACE INERTIA CONN 2.5 ON TAPE HDR 4P NA



TE Part #5-1376492-2  
2.5 SMC HDR 2P WHITE TAPE



TE Part #2405963-4  
4P, RAST 5 HEADER, PL, SHROUDED W FEET

## Documents

### Product Drawings

#### GRACE INERTIA CONNECTOR 6.5 3POS HEADER

English

### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1747049-1\\_D.2d\\_dxf.zip](#)

English

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1747049-1\\_D.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1747049-1\\_D.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

[1-1773883-5 GRACE INERTIA connector quick reference guide](#)

English

### Product Specifications

[5.0 POWER KEY CONNECTOR](#)

Japanese

[Application Specification](#)





Japanese

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**Product Environmental Compliance**

[MD\\_1747049-1\\_0210201403\\_dmtec](#)

English

[MD\\_1747049-1\\_0210201403\\_dmtec](#)

English