



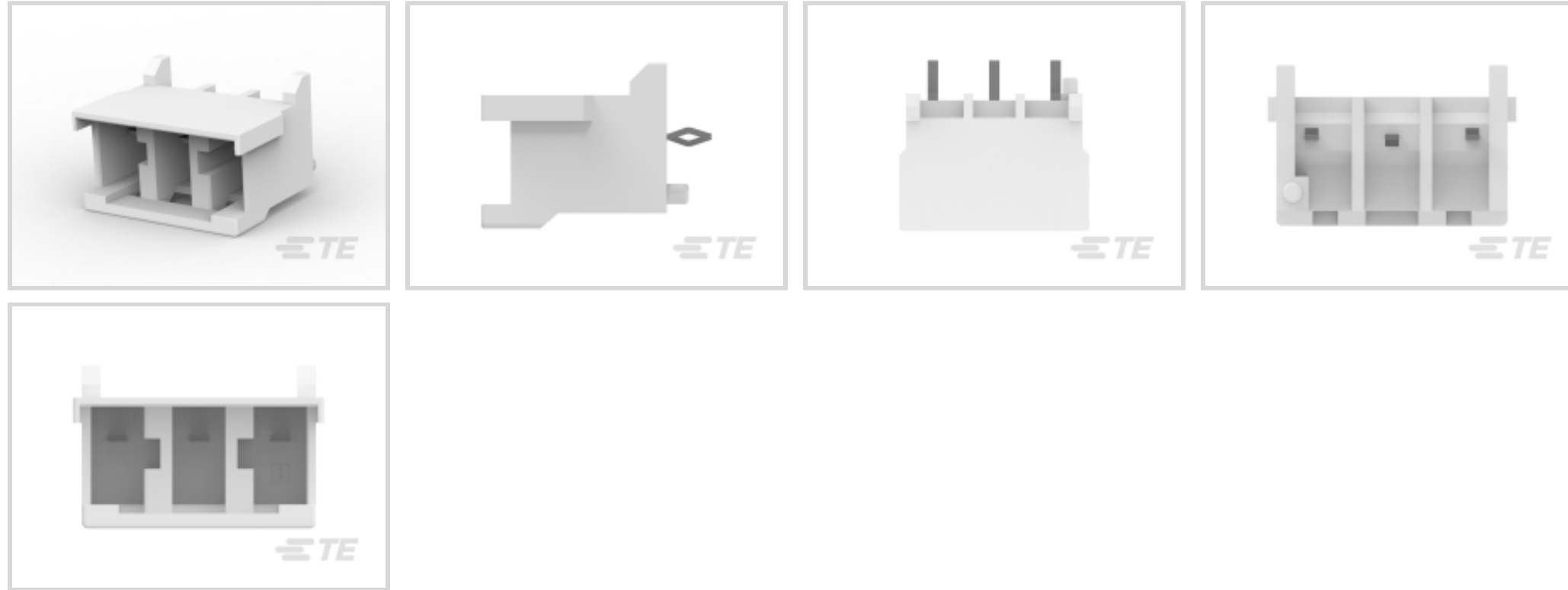
GRACE INERTIA 6.5

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 > Glow Wire GRACE INERTIA Header



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]**

[All Glow Wire GRACE INERTIA Header \(68\)](#)

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
Keying	A
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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Contact Features

Contact Layout	Inline
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	Tin
Contact Mating Area Plating Material Thickness	.8 μm [31.5 μin]
Underplate Material Thickness	.8 – 3 μm [31.496 – 118.11 μin]
Contact Termination Area Plating Thickness	.8 μm [31.496 μin]
Tab Width	1.5 mm[.059 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 Alignment	With
PCB Mount Alignment	Without
Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Kinked
Connector Mounting Type	Board Mount
Mating Retention	With
Mating Retention Type	Inertia Locking, Latch

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

Wire Size	434.18 – 2723.46 CMA
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PCB Thickness (Recommended)	.06 mm[1.6 in]
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Height	14.5 mm[.57 in]
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Length	20.1 mm[.791 in]
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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 Method	Bag
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Packaging Quantity	250
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Other

For Use With	Plug Housing
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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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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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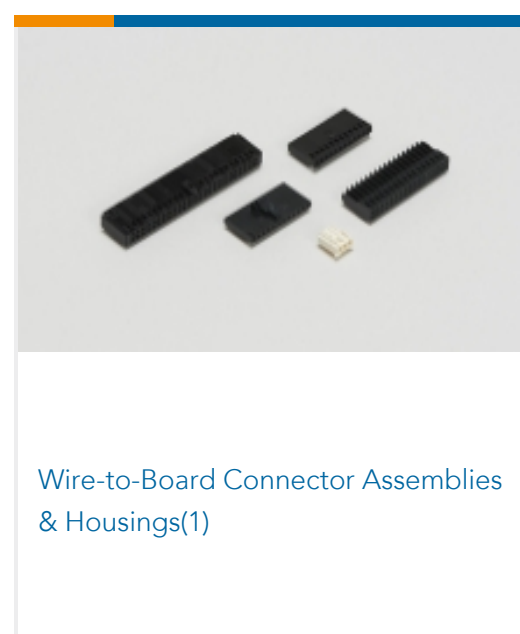
Product Compliance Disclaimer

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



Also in the Series | GRACE INERTIA 6.5



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

[Product Specification](#)

English

Product Environmental Compliance

[MD_1747049-1_0210201403_dmtec](#)

English

[MD_1747049-1_0210201403_dmtec](#)

English

Agency Approvals

[UL Report](#)

English