

1747996-1 ✓ ACTIVE



## GRACE INERTIA 12.4

TE Internal #: 1747996-1

PCB Mount Header, Vertical, Wire-to-Board, 2 Position, 12.4 mm [.488 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, GRACE INERTIA 12.4

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

### Features

#### Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

#### Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

#### Configuration Features

Number of Columns	2
Number of Loaded Positions	2
Number of Power Positions	2



Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	2
Number of Rows	1

### Electrical Characteristics

Operating Voltage	600 VDC
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### Body Features

Connector & Keying Code	A
Primary Product Color	Natural

### Contact Features

Contact Mating Area Plating Material Thickness	.8 $\mu\text{m}$ [31.5 $\mu\text{in}$ ]
Mating Tab Width	3.1 mm[.122 in]
Contact Shape & Form	Rectangular
PCB Contact Termination Area Plating Material Thickness	.8 $\mu\text{m}$ [31.5 $\mu\text{in}$ ]
Contact Layout	Inline
Contact Mating Area Length	7.4 mm[.291 in]
Contact Base Material	Copper Alloy
Mating Tab Thickness	.8 mm[.031 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin
Contact Type	Tab
Contact Current Rating (Max)	20 A

### Termination Features

Termination Post & Tail Length	3.1 mm[.122 in]
Termination Method to PCB	Through Hole - Solder

### Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Locking Tab
Mating Retention	With
PCB Mount Retention Type	Boardlock
Mating Alignment Type	Keyed
PCB Mount Retention	With



PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	With

### Housing Features

Mating Entry Location	Top
Housing Material	Nylon 6/6 GF
Centerline (Pitch)	12.4 mm [.488 in]

### Dimensions

Connector Width	10.7 mm [.421 in]
Connector Height	17.9 mm [.705 in]
Connector Length	19.65 mm [.774 in]

### Usage Conditions

Operating Temperature (Max)	105 °C [221 °F]
Operating Temperature Range	-40 – 105 °C [-40 – 221 °F]

### Operation/Application

Circuit Application	Power
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### Industry Standards

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

### Packaging Features

Packaging Quantity	150
Packaging Method	Bag

### 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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC



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 # 1747996-2  
GHC EYELET 12.4 2POS HEADER ASSY RED



TE Part # 1747996-3  
GHC EYELET 12.4 2POS HEADER ASSY BLUE



TE Part # 1747995-1  
GHC EYELET 6.2 3POS PLUG HOUSING NATURAL



TE Part # 1747996-4  
GHC EYELET 12.4 2POS HEADER ASSY YELLOW

### Also in the Series | GRACE INERTIA 12.4

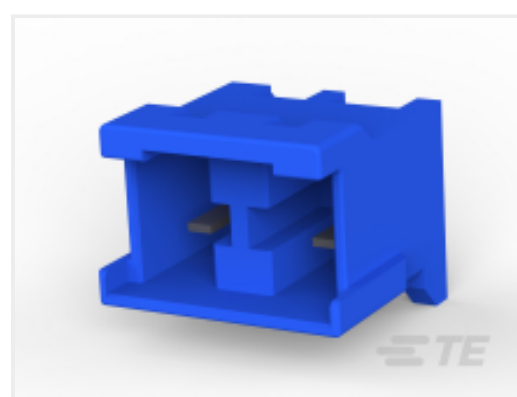


PCB Headers & Receptacles(4)

### Customers Also Bought



TE Part #2-1903415-1  
GHC 9.0 3POS HDR ASSY BLUE



TE Part #1747052-3  
GIC7.92 2POS\_HEADER ASSY BLUE



TE Part #1-1903415-1  
GHC 9.0 3POS HDR ASSY RED



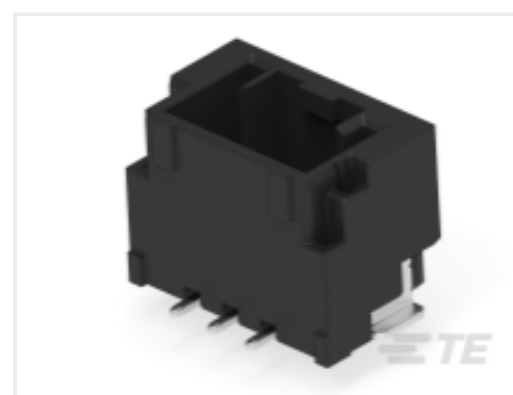
TE Part #3-1747052-1  
GIC7.92 2POS\_HDR ASS'Y NAT  
KEYING D



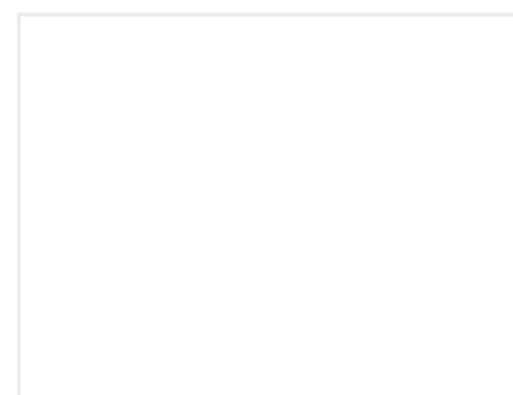
TE Part #2-2360545-4  
SGI 1.5 HDR, 4P, RA, Key B, Black



TE Part #2-2360545-8  
SGI 1.5 HDR, 8P, RA, Key B, Black



TE Part #2-2360547-3  
SGI 1.5 HDR, 3P, VT, Key B, Black



TE Part #4-1903415-1  
GHC 9.0 3POS HDR ASSY BLACK

## Documents

### Product Drawings

[GHC EYELET 12.4 2POS HEADER ASSY NATURAL](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1747996-1\\_F.2d\\_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1747996-1\\_F.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1747996-1\\_F.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

[Application Specification](#)

English