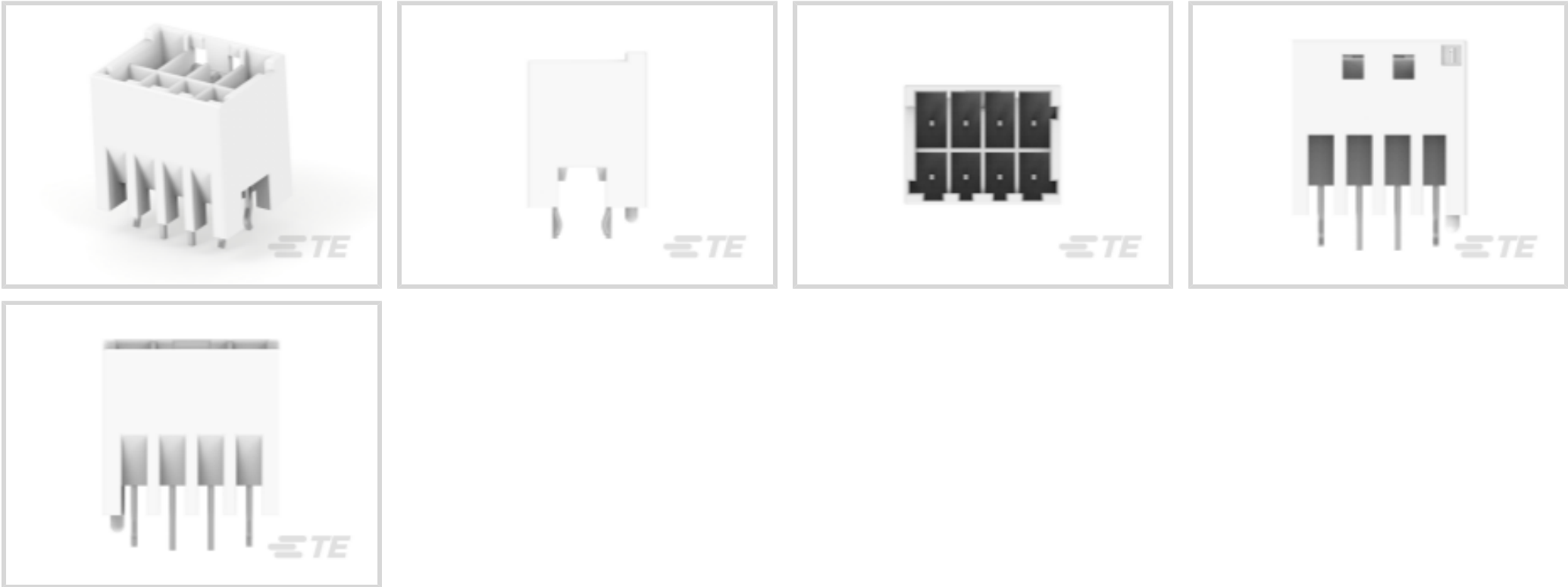




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **8**

Number of Rows: **2**

Features

Product Type Features

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

Configuration Features

Number of Columns	4
Number of Loaded Positions	8
Number of Power Positions	8
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical



Number of Positions	8
Number of Rows	2

Electrical Characteristics

Operating Voltage	250 VDC
-------------------	---------

Body Features

Connector & Keying Code	A
Primary Product Color	Natural

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.25 µm[49.21 µin]
Contact Size	.5mm
Contact Mating Area Plating Material Thickness	2 µm[78.74 µin]
Mating Square Post Dimension	.5 mm[.02 in]
PCB Contact Termination Area Plating Material Thickness	2 µm[78.74 µin]
Contact Shape & Form	Square
Contact Layout	Matrix
Contact Mating Area Length	3.6 mm[.142 in]
Contact Base Material	Brass
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Tab
Contact Current Rating (Max)	4 A

Termination Features

Termination Post & Tail Length	3 mm[.118 in]
Square Termination Post & Tail Dimension	.5 mm[.02 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Panel Mount Feature	Without
Mating Retention Type	Locking Window
Mating Retention	With
PCB Mount Retention Type	Kinked
Mating Alignment Type	Keyed



PCB Mount Alignment Type	Locating Posts
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Mating Entry Location	Top
Housing Material	PA 66 GF
Centerline (Pitch)	3.3 mm[.129 in]

Dimensions

Row-to-Row Spacing	5.2 mm[.205 in]
Connector Width	11.6 mm[.456 in]
PCB Thickness (Recommended)	1.6 mm[.06 in]
Connector Height	14.25 mm[.561 in]
Connector Length	15.3 mm[.602 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]

Operation/Application

Circuit Application	Power
---------------------	-------

Industry Standards

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

Packaging Features

Packaging Quantity	250
Packaging Method	Tray

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 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

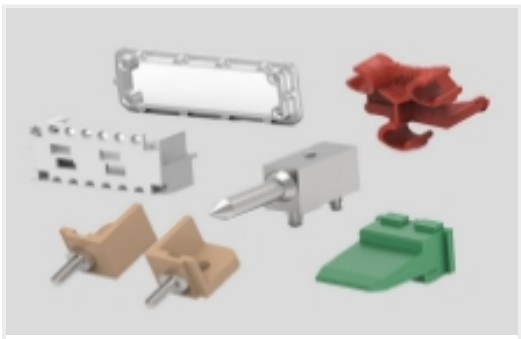
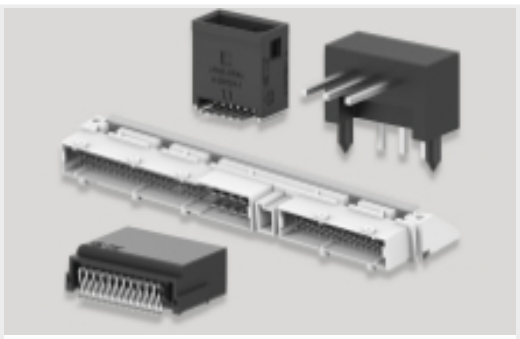
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 1-1971906-3
[HEADER ASSY 6POS,KEYING-A,NEW GIC3.3](#)

Also in the Series | GRACE INERTIA 3.3

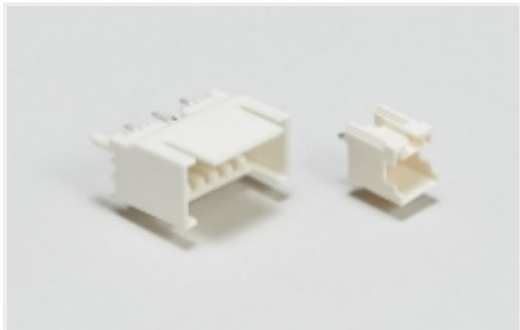
			
Connector Contacts(3)	Connector Hardware(15)	PCB Headers & Receptacles(36)	Power Contacts(3)



Rectangular Connector Housings(34)



Rectangular Power Connectors(70)



Wire-to-Board Headers & Receptacles
(36)

Customers Also Bought



TE Part #3-1971906-2
HEADER ASSY 4POS,KEYING-C,NEW
GIC3.3



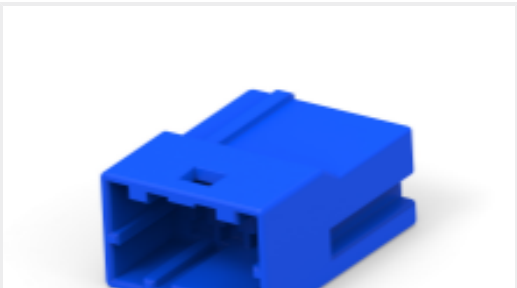
TE Part #1-1971906-5
HEADER ASSY 10POS,KEYING-A,
NEW GIC3.3



TE Part #2232570-1
GIC 2.5W PLUG HSG 6P NATURAL



TE Part #1-1971906-2
HEADER ASSY 4POS,KEYING-A,NEW
GIC3.3



TE Part #2-2232574-3
GIC 2.5 W CAP HSG 4P BLUE



TE Part #2360538-9
SGI 1.25 HDR, 9P, RA, Key A, Natural



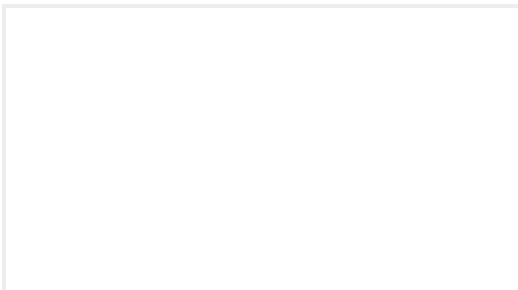
TE Part #1-2360538-0
SGI 1.25 HDR, 10P, RA, Key A, Natural



TE Part #3-1971906-3
HEADER ASSY 6POS,KEYING-C,NEW
GIC3.3



TE Part #2-1971906-4
HEADER ASSY 8POS,KEYING-B,NEW
GIC3.3



TE Part #5-1971906-3
HEADER ASSY 6POS,KEYING-A,NEW
GIC3.3

Documents

Product Drawings

HEADER ASSY 8POS,KEYING-A,NEW GIC3.3

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1971906-4_A_c-1-1971906-4-a.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_1-1971906-4_A_c-1-1971906-4-a.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-1971906-4_A_c-1-1971906-4-a.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

[5-1773465-4-GI3.3Flyer](#)

English

[7-1773465-7-GI3.3-ChineseFlyer](#)

[GI3.3_QRG_CN](#)

Product Specifications

[Application Specification](#)

English