1-1971906-5 ✔ ACTIVE

Grace Inertia | GRACE INERTIA 3.3

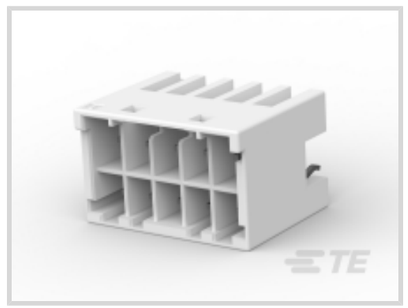
TE Internal #: 1-1971906-5

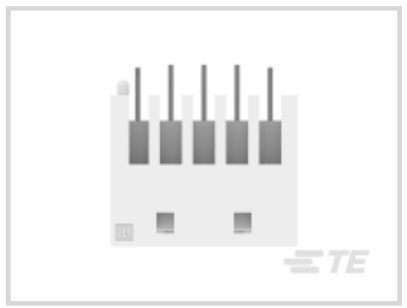
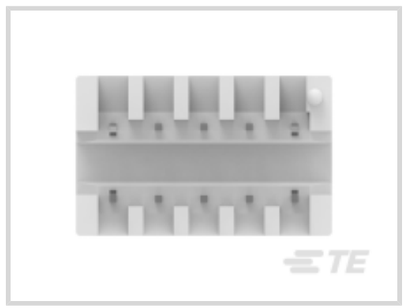
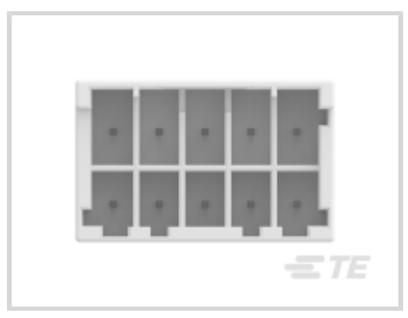
TE Internal Description: HEADER ASSY 10POS,KEYING-A,NEW GIC3.3

Glow Wire GRACE INERTIA Header

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: **10**

Centerline (Pitch): **3.3 mm [.129 in]**

All Glow Wire GRACE INERTIA Header (53)

Features

Product Type Features

Header Type	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	10
Keying	A
PCB Mount Orientation	Vertical
Number of Power Positions	10
Number of Signal Positions	10
Number of Rows	2

Electrical Characteristics

Operating Voltage	250 VDC

Contact Features

Contact Layout	Matrix
Contact Underplating Material	Nickel
Contact Base Material	Brass
Contact Current Rating (Max)	4 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	78.73 µm[2 µin]
Underplate Material Thickness	1.25 µm[49.21 µin]
Contact Termination Area Plating Thickness	2 µm[78.74 µin]
Tab Width	.5 mm[.0197 in]

Termination Features

Termination Post & Tail Length	3 mm[.118 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

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

Housing Features

Centerline (Pitch)	3.3 mm[.129 in]
Housing Color	Natural
Housing Material	PA 66 GF

Dimensions

Wire Size	414.44 – 1045.97 CMA
Row-to-Row Spacing	5.2 mm[.205 in]
PCB Thickness (Recommended)	.063 mm[1.6 in]
Mating Post Length	6.6 mm[.26 in]
Height	14.25 mm[.561 in]
Length	18.6 mm[.73 in]

Usage Conditions

Operation Temperature Range	-30 – 105 °C[-22 – 221 °F]

Operation/Application

Circuit Application	Power & Signal

Industry Standards

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

Packaging Features

Packaging Method	Box & Tray
Packaging Quantity	200

Other

For Use With	Plug Housing

Product Compliance

For compliance documentation, visit the product page on TE.com>

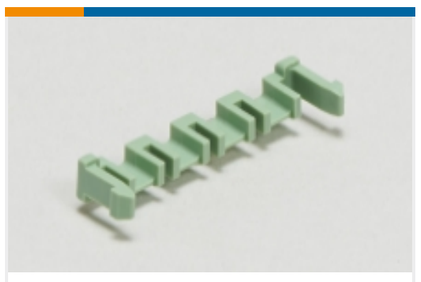
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2020 (205) Candidate List Declared Against: JUL 2019 (201) Does not contain REACH SVHC
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2020 (205) Candidate List Declared Against: JUL 2019 (201)
Halogen Content	Not Low Halogen - contains Br or Cl > 900

	ppm.
Solder Process Capability	Not reviewed for solder process capability

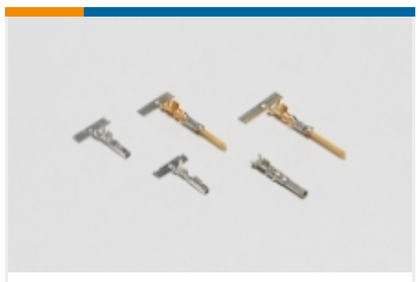
Product Compliance Disclaimer

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Also in the Series | GRACE INERTIA 3.3



PCB Latches, Locks & Retainers(6)

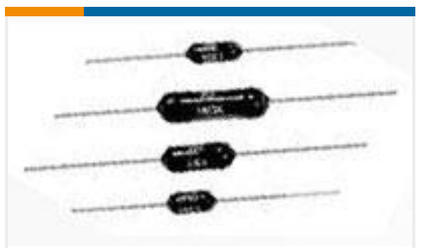


Power Contacts(1)

Rectangular Connector Locking(7)

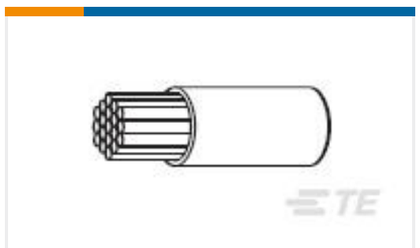
Rectangular Power Connectors(61)

Customers Also Bought



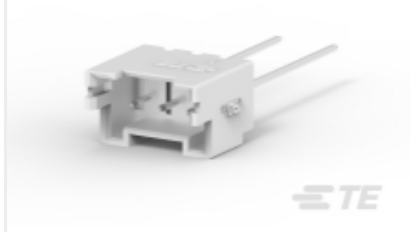
TE Model / Part #8-1879627-7
H4P 39K 1% 100PPM

TE Model / Part #1601075-1
WIRE2BLADE,STD, SMZ



TE Model / Part #169965-000
FLHTC0311-14-1

TE Model / Part #1971200-1
GIC 2.0 EV 5/8P HEADER ASSEMBLY



TE Model / Part #2299683-3
EP2.5 HDR 3P VERT W/O BOSS, TAPING

Documents

Product Drawings

HEADER ASSY 10POS,KEYING-A,NEW GIC3.3

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1971906-5_A_c-1-1971906-5-a.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-1971906-5_A_c-1-1971906-5-a.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1971906-5_A_c-1-1971906-5-a.3d_stp.zip

English

Datasheets & Catalog Pages

5-1773465-4-GI3.3Flyer

English

1-1773883-5 GRACE INERTIA connector quick reference guide

English

GI3.3_QRG_CN

7-1773465-7-GI3.3-ChineseFlyer

Product Specifications

Application Specification

English

Product Environmental Compliance

TE Material Declaration

English

Agency Approvals

UL Report

English