1747049-1 ✔ ACTIVE

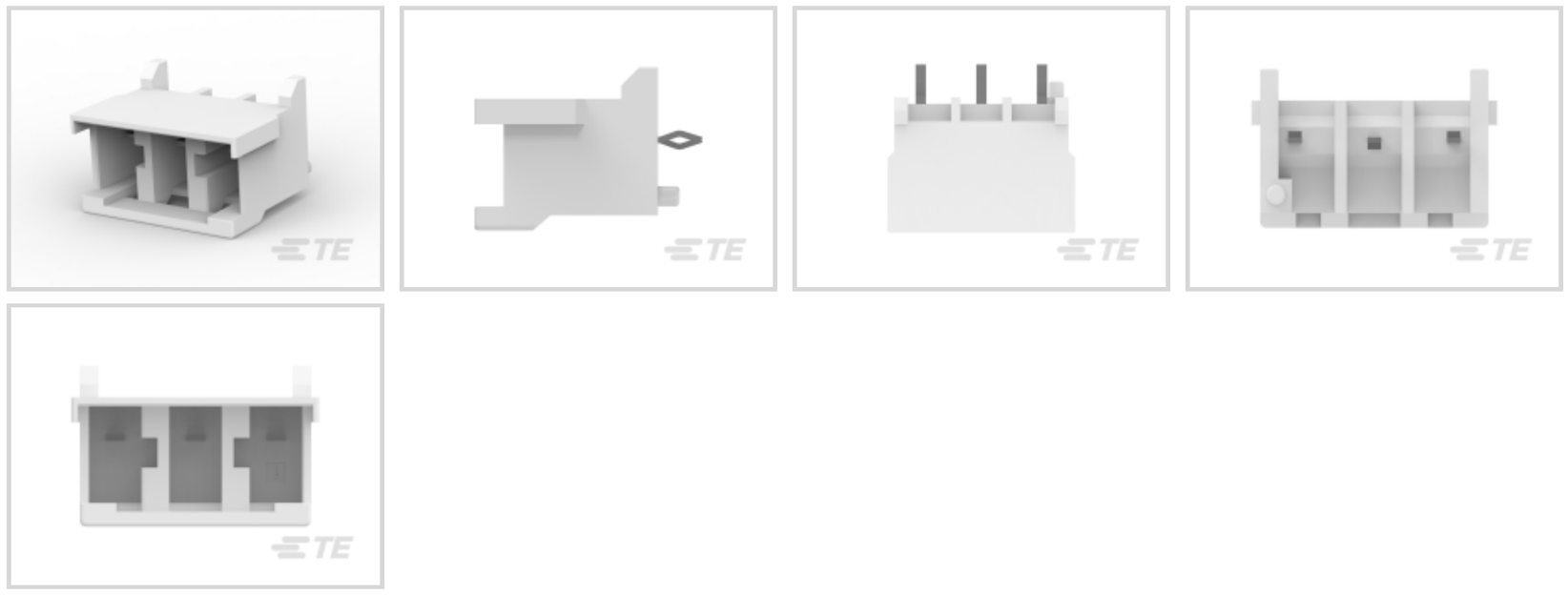
GRACE INERTIA 6.5

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

Body Features

Connector & Keying Code	A

Contact Features

PCB Contact Termination Area Plating Material Thickness	.8 µm[31.496 µin]
Contact Layout	Inline
Mating Tab Width	1.5 mm[.059 in]
Contact Underplating Material Thickness	.8 - 3 µm[31.496 - 118.11 µin]
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 µm[31.5 µin]

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]

Housing Color	Natural
Housing Material	Nylon 6/6 GF

Dimensions

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

Usage Conditions

Operating Temperature Range	-40 - 105 °C[-40 - 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 Quantity	250
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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer

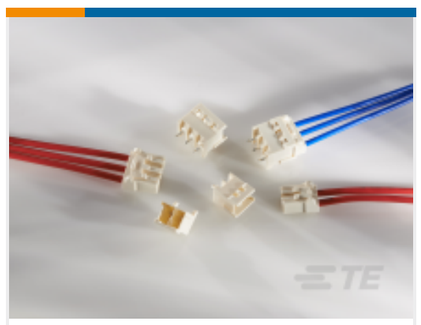
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

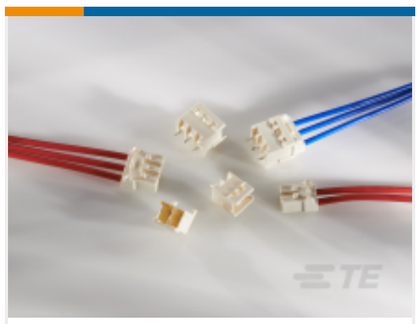
Compatible Parts



TE Part # CAT-G7534-P729A
Glow Wire GRACE INERTIA Plug



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



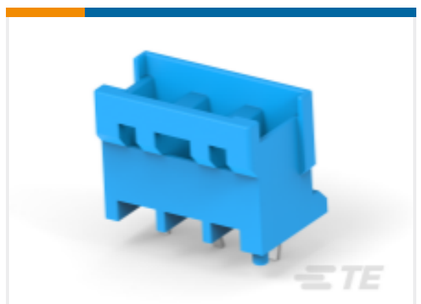
TE Part # 3-2232876-1
GIC6.0MM CONNECTOR HEAD HOUSING ASS 3POS



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



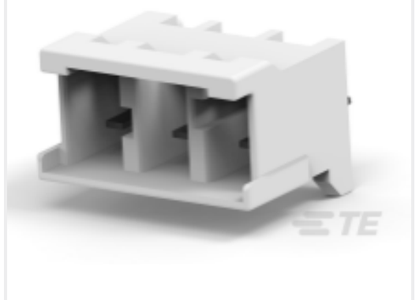
TE Part # 2-1747049-3
GIC 6.5MM PITCH CONN HDR ASS'Y 3POS BLUE



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



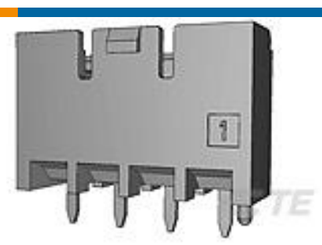
TE Part # 3-2232876-4
GIC6.0MM CONNECTOR HEAD HOUSING ASS 3POS

Also in the Series | GRACE INERTIA 6.5



Rectangular Power Connectors(2)

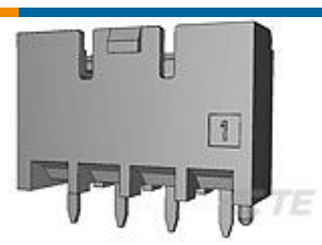
Customers Also Bought



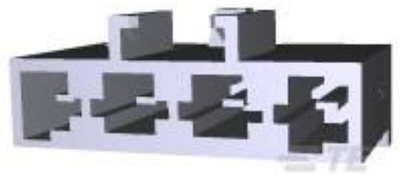
TE Part # 1376383-1
5mm B-T-W Conn. 3P HDR ASSEMBL



TE Part # 1971845-4
4P, RAST 5 Tab Header, THV



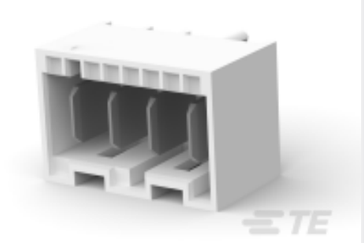
TE Part # 6-1376383-2
5mm B-T-W Conn. 3P HDR ASSY W/



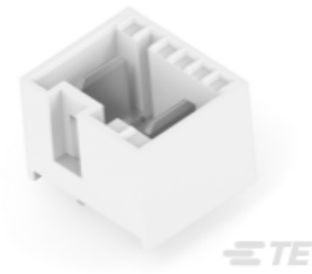
TE Part # 179847-1
POWER DBL LOCK TAB V ASSY 4P



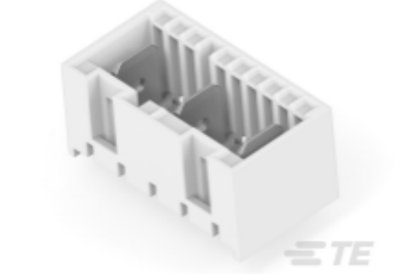
TE Part # 5-1376386-1
5.0 POWER KEY CONNECTOR 4P (2R



TE Part # 2232532-4
4P, PL RAST 5 Tab Header, TH,Vertical



TE Part # 2292458-3
3P, RAST 5 HEADER, PL, SHROUDED SL



TE Part # 2322950-5
5P, RAST 5 TAB HEADER SELEC, THV, OPP



TE Part # 2372858-5
5P, RAST5 P-LOCK HEADER ASSY, OPPOSITE



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

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 Conditionsof use.

Datasheets & Catalog Pages

1-1773883-5 GRACE INERTIA connector quick reference guide

English

Product Specifications

Application Specification

English