1939983-1 ✔ ACTIVE

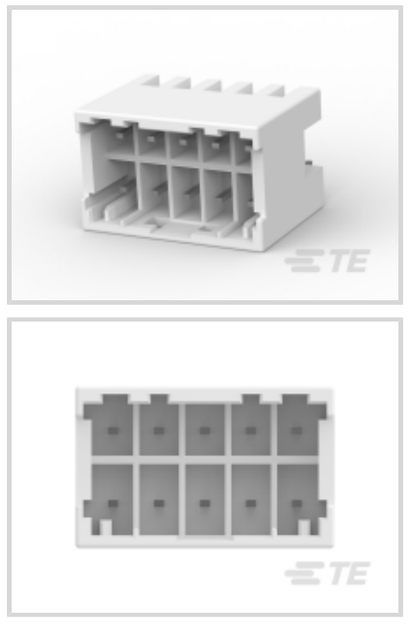
GRACE INERTIA | GRACE INERTIA 3.3

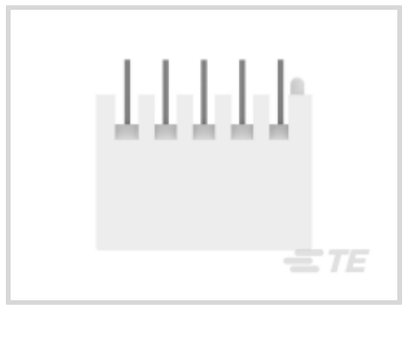
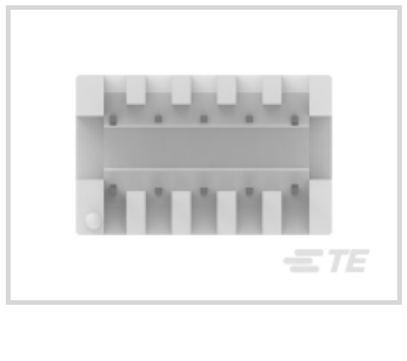
TE Internal #: 1939983-1

PCB Mount Header, Vertical, Wire-to-Board, 10 Position, 3.3 mm [.129 in] Centerline, Fully Shrouded, Tin (Sn), GRACE INERTIA 3.3

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **10**

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

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	5
Number of Loaded Positions	10
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	10
Number of Rows	2

Number of Power Positions	10

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	1.27 µm[50 µin]
Mating Tab Width	.7 mm[.028 in]
PCB Contact Termination Area Plating Material Thickness	2 µm[78.74 µin]
Contact Shape & Form	Rectangular
Contact Layout	Matrix
Contact Mating Area Length	3.65 mm[.143 in]
Contact Base Material	Brass
Mating Tab Thickness	.5 mm[.02 in]
Contact Mating Area Plating Material	Tin (Sn)
Contact Mating Area Plating Material Thickness	2 µm[78.74 µin]
Contact Type	Tab
Contact Current Rating (Max)	4 A
PCB Contact Termination Area Plating Material	Tin

Termination Features

Rectangular Termination Post & Tail Width	.5 mm[.02 in]
Rectangular Termination Post & Tail Thickness	.46 mm[.018 in]
Termination Post & Tail Length	3 mm[.118 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

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

Housing Features

Mating Entry Location	Top
Centerline (Pitch)	3.3 mm[.129 in]
Housing Material	Nylon 6/6 GF

Dimensions

Row-to-Row Spacing	5.2 mm[.205 in]
Connector Width	11.6 mm[.456 in]
PCB Thickness (Recommended)	1.6 mm[.062 in]
Connector Height	13.4 mm[.527 in]
Connector Length	18.6 mm[.732 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	200
Packaging Method	Tray

Product Compliance

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

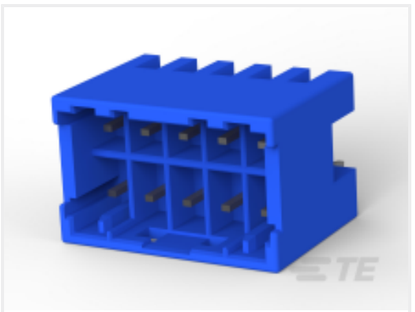
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold

EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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

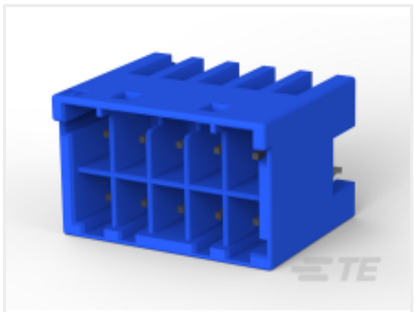
Product Compliance Disclaimer

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

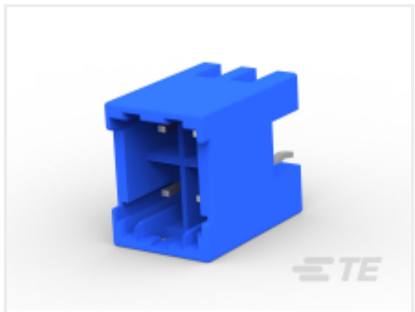
Compatible Parts



TE Part # 2-1939983-3
GIC 3.3 HDR ASSY 10P 2ROW BLUE



TE Part # 2-1971906-5
HEADER ASSY 10POS,KEYING-B,NEW GIC3.3



TE Part # 2-1827391-1
GIC 3.3 HDR ASSY BLUE WITH KINK



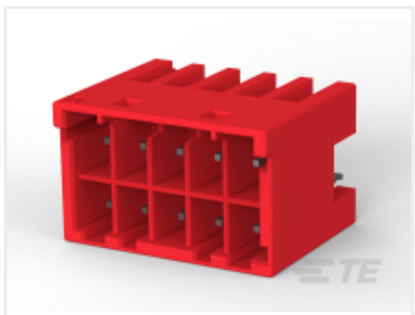
TE Part # 1-1971906-6
HEADER ASSY 12POS,KEYING-A, NEW GIC3.3



TE Part # 1871571-1
GIC 3.3 HDR ASSY 12POS KINK



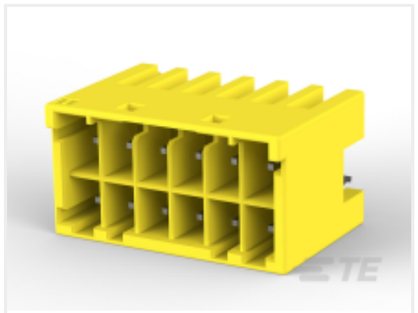
TE Part # 1981065-1
GIC 3.3 10P DBL LOCK PLATE (2ROW, M TYPE)



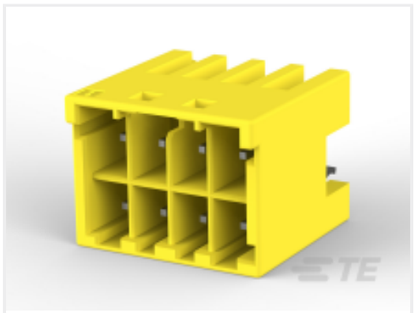
TE Part # 3-1971906-5
HEADER ASSY 10POS,KEYING-C, NEW GIC3.3



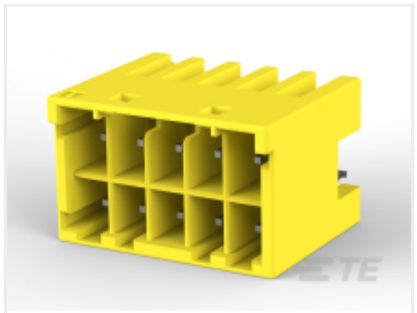
TE Part # 1-1971906-5
HEADER ASSY 10POS,KEYING-A, NEW GIC3.3



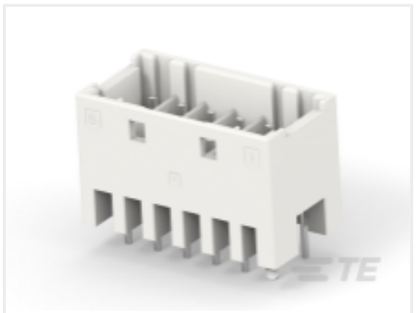
TE Part # 4-1971906-6
HEADER ASSY 12POS,KEYING-D, NEW GIC3.3



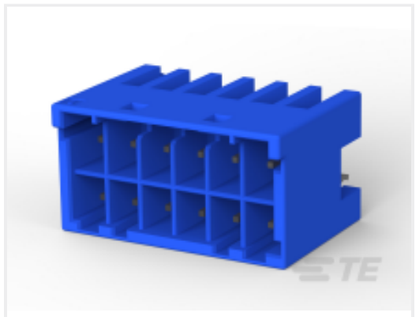
TE Part # 4-1971906-4
HEADER ASSY 8POS,KEYING-D,NEW GIC3.3



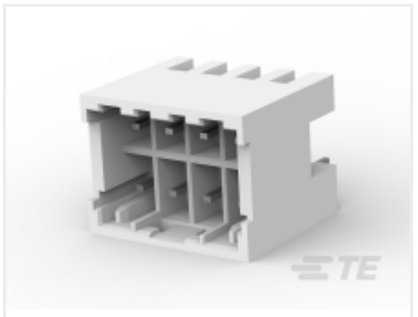
TE Part # 4-1971906-5
HEADER ASSY 10POS,KEYING-D, NEW GIC3.3



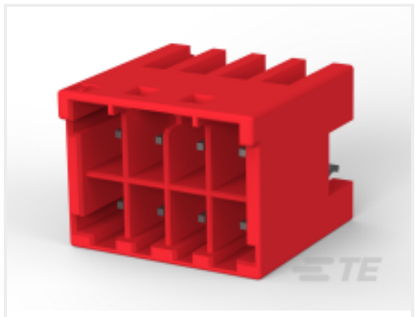
TE Part # 5-1871571-1
GIC 3.3 HDR ASSY 12POS W/O KINK



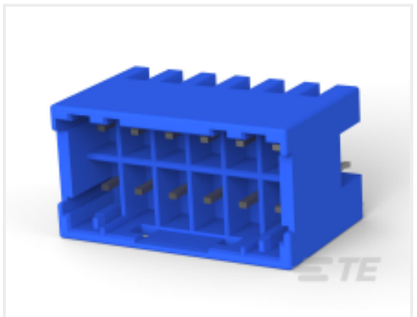
TE Part # 2-1971906-6
HEADER ASSY 12POS,KEYING-B,NEW GIC3.3



TE Part # 5-1827393-1
GIC 3.3 HDR ASSY 8P



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



TE Part # 2-1871571-3
GIC 3.3 HEADER ASSY 12POS



TE Part # 1939984-1
GIC 3.3 PLUG HSG 10POS. 2ROW



TE Part # 1871568-1
GIC 3.3 HDR ASSY 6POS 1-ROW KINK

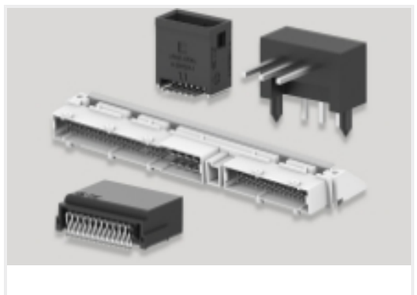
Also in the Series | GRACE INERTIA 3.3



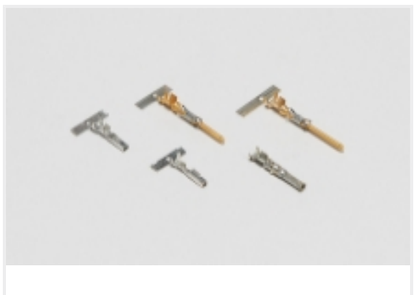
Connector Contacts(3)



Connector Hardware(15)



PCB Headers & Receptacles(36)



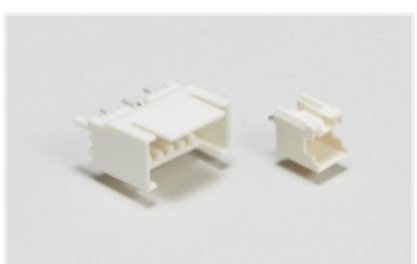
Power Contacts(3)



Rectangular Power Connectors(70)

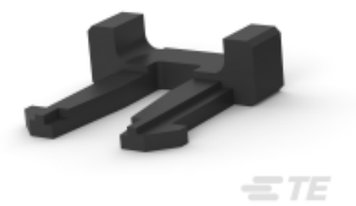


Wire-to-Board Connector Assemblies & Housings(34)

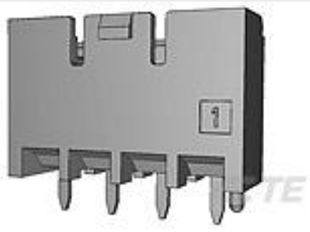


Wire-to-Board Headers & Receptacles (36)

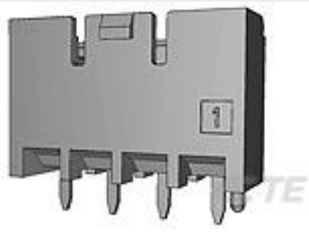
Customers Also Bought



TE Part #5-917698-1
2.5 SIGNAL DBL LOCK D.L.P 2P



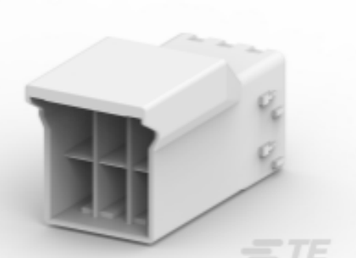
TE Part #7-1376382-3
5.0 PK CONN. 2P ASSY WITHOUT K



TE Part #7-1376383-3
5mm B-T-W Conn, HDR HSG BLUE W



TE Part #5-1565086-1
GRACE INERTIA CONNECTOR 3.5W 3POS CAP



TE Part #5-1565088-1
GRACE INERTIA CONNECTOR 3.5W 6POS CAP



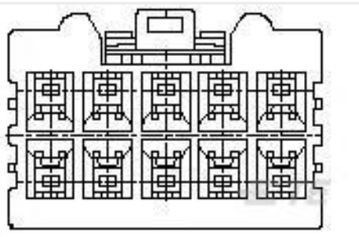
TE Part #5-1565090-1
GIC 3.5 3P DBL LOCK PLATE PBT (BLACK)



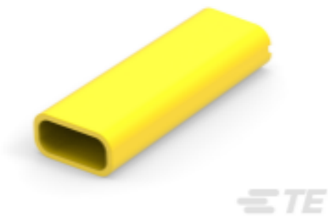
TE Part #1747995-4
GHC EYELET 6.2 3POS PLUG HOUSING YELLOW



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



TE Part #1939984-1
GIC 3.3 PLUG HSG 10POS. 2ROW



TE Part #2391865-2
250 sleeve PL YELLOW transparent

Documents

Product Drawings

GIC3.3 HDR ASS'Y 10POS 2ROW

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1939983-1_D_c-1939983-1-d.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1939983-1_D_c-1939983-1-d.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1939983-1_D_c-1939983-1-d.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications

Application Specification

Japanese

GRACE INERTIA CONNECTOR 3.3 CONTACT

Japanese

Agency Approvals

UL Report

English