1939984-1 ✔ ACTIVE

GRACE INERTIA | GRACE INERTIA 3.3

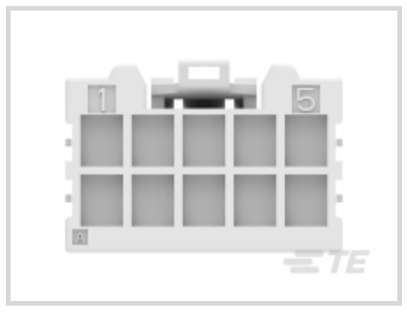
TE Internal #: 1939984-1

10 Position, Plug, Housing, Crimp, Wire-to-Board, Tin (Sn), UL 94V-0, 3.3 mm [.129 in] Centerline, 2 Row, 250 VAC, Wire & Cable, GRACE INERTIA 3.3

View on TE.com >

Connectors > Rectangular Connectors > Standard Rectangular Connectors > Glow Wire GRACE INERTIA Plug





Connector Product Type: **Housing**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Connector & Housing Type: **Plug**

Mating Retention Type: **Latch, Locking Latch**

All Glow Wire GRACE INERTIA Plug (78)

Features

Product Type Features

Connector Product Type	Housing
Connector & Housing Type	Plug
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Positions	10
Number of Rows	2
Number of Power Positions	10
Number of Signal Positions	2

Electrical Characteristics

Operating Voltage	250 VDC

Body Features

Connector & Keying Code	A
Primary Product Color	Natural

Contact Features

Contact Layout	Matrix
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Tin (Sn)
Contact Retention Within Housing	With
Contact Type	Receptacle
Contact Current Rating (Max)	4 A
Contact Mating Area Plating Material Thickness	.8 µm[31.49 µin]

Termination Features

Termination Method to Wire & Cable	Crimp

Mechanical Attachment

Strain Relief	Without
Panel Mount Feature	Without
Mating Alignment	With
Mating Alignment Type	Keyed
Mating Retention Type	Latch, Locking Latch
Mating Retention	With
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

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

Dimensions

Connector Height	12.5 mm[.491 in]
Connector Length	17.9 mm[.704 in]
Row-to-Row Spacing	5.2 mm[.205 in]
Wire Size	414.44 – 1045.97 CMA

Usage Conditions

Operating 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 Quantity	1000
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 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	Not applicable 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

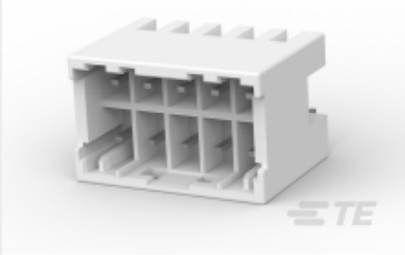
Compatible Parts



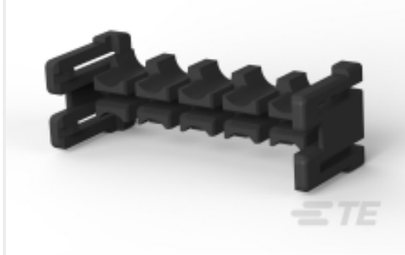
TE Part # 1871567-1
GIC 3.3 PLUG HOUSING 6POS 1ROW



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



TE Part # 1939983-1
GIC3.3 HDR ASS'Y 10POS 2ROW



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

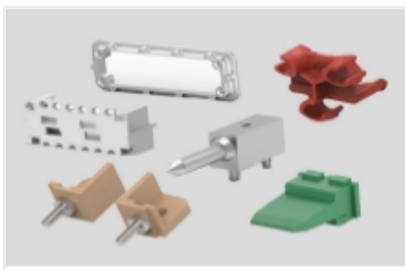


TE Part # 1827395-2
GIC 3.3 REC CONTACT TIN PLATE

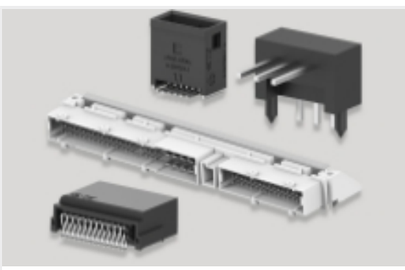
Also in the Series | GRACE INERTIA 3.3



Connector Contacts(3)



Connector Hardware(15)



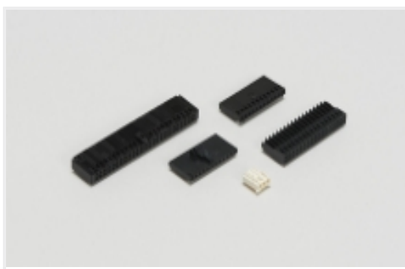
PCB Headers & Receptacles(36)



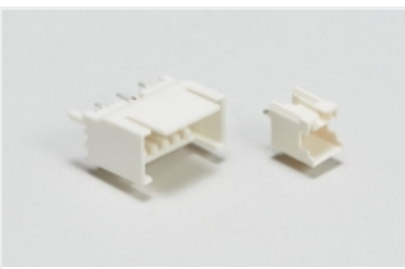
Power Contacts(3)



Rectangular Power Connectors(70)



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

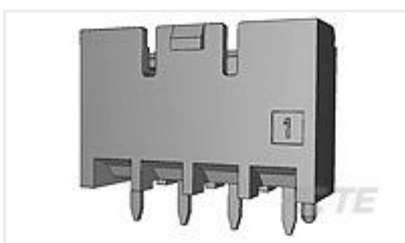


Wire-to-Board Headers & Receptacles (36)

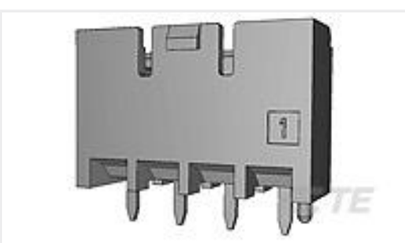
Customers Also Bought



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



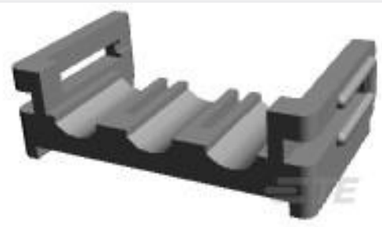
TE Part #1565082-1
GRACE INERTIA CONNECTOR 3.5 3P



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



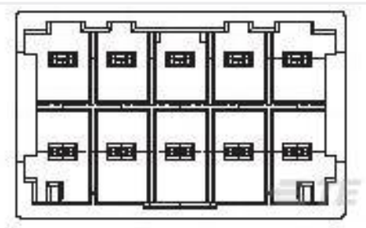
TE Part #5-1565088-1
GRACE INERTIA CONNECTOR 3.5W 6POS CAP



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 #1939983-1
GIC3.3 HDR ASS'Y 10POS 2ROW



TE Part #2391865-2
250 sleeve PL YELLOW transparent

Documents

Product Drawings

GIC 3.3 PLUG HSG 10POS. 2ROW

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1939984-1_F_c-1939984-1-f.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1939984-1_F_c-1939984-1-f.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1939984-1_F_c-1939984-1-f.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