

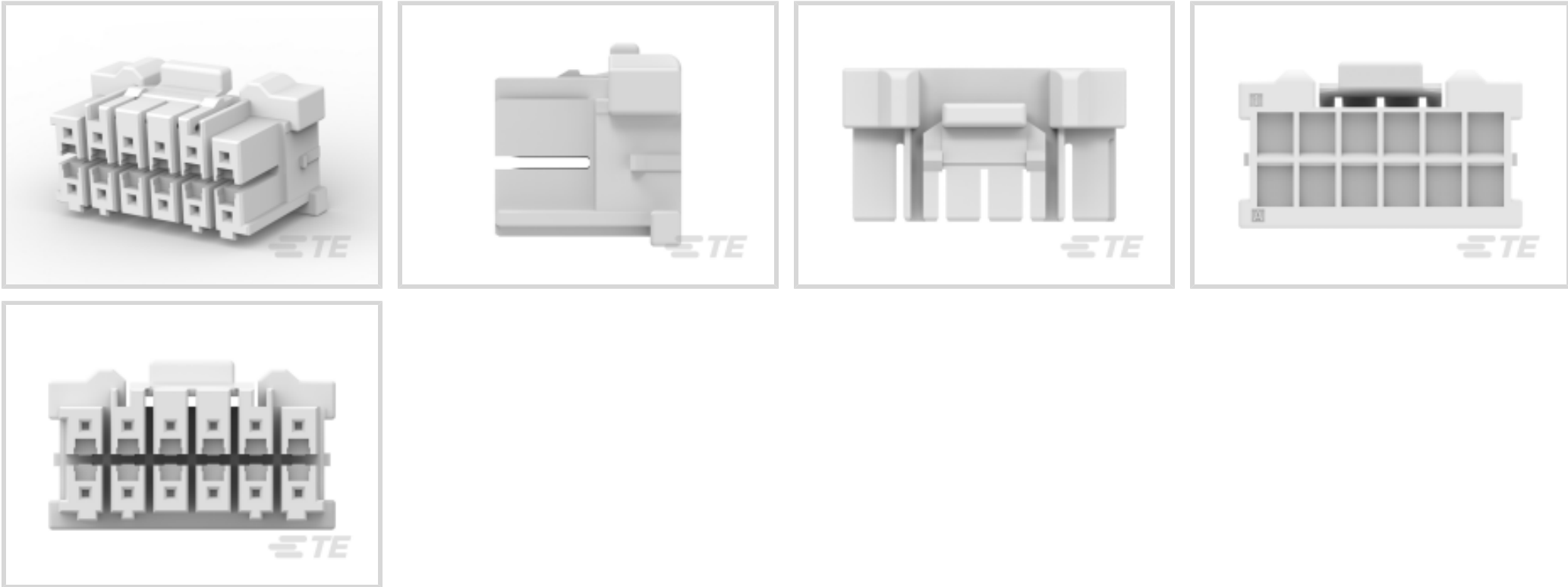


GRACE INERTIA 3.3

TE Internal #: 1-1971905-6
Rectangular Power Connectors, Housing, Plug, Wire-to-Board, 12
Position, 3.3 mm [.129 in] Centerline, Wire & Cable, UL 94V-0,
GRACE INERTIA 3.3

[View on TE.com >](#)

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



Rectangular Power Connector Type: **Housing**
Connector & Housing Type: **Plug**
Connector System: **Wire-to-Board**
Number of Positions: **12**
Centerline (Pitch): **3.3 mm [.129 in]**

[All Glow Wire GRACE INERTIA Plug \(78\)](#)

Features

Product Type Features

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

Configuration Features

Number of Positions	12
Number of Power Positions	12
Number of Signal Positions	12
Number of Rows	2

Electrical Characteristics

Operating Voltage	250 VDC
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Body Features

Connector & Keying Code	A
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Contact Features

Contact Mating Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	4 A
Contact Retention Within Housing	With
Contact Type	Receptacle
Contact Mating Area Plating Material Thickness	2 μm[78.73 μin]

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

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

Housing Features

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

Dimensions

Connector Height	12.4 mm[.488 in]
Product Length	25.5 mm[1 in]
Wire Size	414.44 - 1045.97 CMA
Row-to-Row Spacing	5.2 mm[.205 in]

Usage Conditions

Operating Temperature Range	-30 - 105 °C[-22 - 221 °F]
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Operation/Application



Circuit Application	Power & Signal
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Industry Standards

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

Packaging Features

Packaging Quantity	200
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	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 # CAT-G7534-P729A
Glow Wire GRACE INERTIA Plug

TE Part # 1871822-1
GIC 3.3 12P DBL LOCK PLATE(2-ROW, 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)

Rectangular Power Connectors(69)

Customers Also Bought

TE Part # 177914-2
AMP POWER DBL LOCK REC (S)

TE Part # 179975-1
250 PL EX REC. 15-10AWG PTBR

TE Part # 170338-1
AMP-IN 22-18 AWG

TE Part # 2-172210-6
PL MKII 187 REC HSG 2P BLUE

TE Part # 1376383-6
5.0 PK CONN 3P HDR ASSY HIGH CURRENT

TE Part # 1747996-4
GHC EYELET 12.4 2POS HEADER ASSY YELLOW

TE Part # 2-2382946-5
SGI 1.5 Plug HSG, 5P, Key B, Black

TE Part # 2357092-1
GRACE INERTIA 3.5W PLUG 10P NAT

TE Part # 2357097-1
GRACE INERTIA 3.5W TPA 6P



Documents

Product Drawings

PLUG HOUSING 12POS,KEYING-A,NEW GIC3.3

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-1971905-6_C.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-1971905-6_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-1971905-6_C.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