



GRACE INERTIA 6.2

TE Internal #: 1747995-1

Rectangular Power Connectors, Housing, Plug, Wire-to-Board, 3 Position, .244 in / .488 in [6.2 mm / 12.4 mm] Centerline, GRACE INERTIA 6.2

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Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Plug**

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

Number of Positions: **3**

Centerline (Pitch): **6.2 mm, 12.4 mm [.244 in, .488 in]**

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 | 3 |
| Keying | A |
| Number of Power Positions | 3 |
| Number of Signal Positions | 0 |
| Number of Rows | 1 |

Electrical Characteristics

| | |
|-------------------|---------|
| Operating Voltage | 600 VDC |
|-------------------|---------|

Contact Features



| | |
|--|-----------------|
| Contact Layout | Inline |
| Contact Current Rating (Max) | 20 A |
| Contact Retention Within Housing | With |
| Contact Type | Receptacle |
| Contact Mating Area Plating Material | Tin |
| Contact Mating Area Plating Material Thickness | .8 μm[31.5 μin] |

Termination Features

| | |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

Mechanical Attachment

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

Housing Features

| | |
|--------------------|-----------------------------------|
| Centerline (Pitch) | 6.2 mm, 12.4 mm[.244 in][.488 in] |
| Housing Color | Natural |
| Housing Material | Nylon 6/6 GF |

Dimensions

| | |
|-----------|------------------|
| Wire Size | 2427 – 7144 CMA |
| Height | 11.4 mm[.45 in] |
| Length | 19.4 mm[.762 in] |

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -40 – 105 °C[-40 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

| | |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Industry Standards

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



Packaging Features

| | |
|--------------------|-----|
| Packaging Method | Bag |
| Packaging Quantity | 700 |

Other

| | |
|--------------|-----------------|
| For Use With | Header Assembly |
|--------------|-----------------|

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 2022 (224) Candidate List Declared Against: JAN 2022 (223) SVHC > Threshold: Not Yet Reviewed |
| 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 # 1747995-2
GHC EYELET 6.2 3POS PLUG
HOUSING RED

TE Part # CAT-G7534-R2435
GRACE INERTIA Receptacle

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

TE Part # 1747996-1
GHC EYELET 12.4 2POS HEADER
ASSY NATURAL

TE Part # 1-2232564-1
GHC 6.2MM 3POS TPA HSG

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

Also in the Series | GRACE INERTIA 6.2

Power Contacts(4)

Rectangular Connector Locking(1)

Rectangular Power Connectors(13)

Customers Also Bought

TE Part #179464-1
POWER DBL LOCK CAP HSG F/H 3P

TE Part #917725-1
2.5 SIGNAL D/LOCK HDR ASSY 5P

TE Part #2232563-1
GHC 9.0MM 3POS TPA

TE Part #1827387-1
Glow Wire GRACE INERTIA Plug

TE Part #1827395-1
GIC 3.3 REC CONTACT TIN PLATE

TE Part #1747996-1
GHC EYELET 12.4 2POS HEADER
ASSY NATURAL

TE Part #1-172127-1
FF 250 REC HSG 1P NYLON NAT

TE Part #4-1903414-2
GHC 9.0 3POS PLUG HSG BLACK



Documents

Product Drawings

GHC EYELET 6.2 3POS PLUG HOUSING NATURAL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1747995-1_G.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1747995-1_G.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1747995-1_G.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

Product Specifications

Application Specification

English

Product Environmental Compliance

MD_1747995-1_09192017238_dmtec

English

MD_1747995-1_09192017238_dmtec

English

Agency Approvals

UL Report

English