

1903414-2 ✓ ACTIVE



## GRACE INERTIA 9.0

TE Internal #: 1903414-2

Rectangular Power Connectors, Housing, Plug, Wire-to-Board, 3  
Position, 9 mm [.354 in] Centerline, Wire & Cable, UL 94V-0, GRACE  
INERTIA 9.0

[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: **3**

Centerline (Pitch): **9 mm [.354 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	3
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 Mating Area Plating Material	Tin
Contact Current Rating (Max)	20 A
Contact Retention Within Housing	With
Contact Type	Receptacle
Contact Mating Area Plating Material Thickness	.8 $\mu\text{m}$ [31.5 $\mu\text{in}$ ]

### Termination Features

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

### Mechanical Attachment

Connector Mounting Type	Cable Mount (Free-Hanging)
-------------------------	----------------------------

### Housing Features

Centerline (Pitch)	9 mm[.354 in]
Housing Color	Red
Housing Material	Nylon 6/6 GF

### Dimensions

Wire Size	2427 – 7144 CMA
-----------	-----------------

### Usage Conditions

Operating Temperature Range	-40 – 105 $^{\circ}\text{C}$ [-40 – 221 $^{\circ}\text{F}$ ]
-----------------------------	--

### Operation/Application

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

### Industry Standards

UL Flammability Rating	UL 94V-0
Glow Wire Rating	GWT 750 $^{\circ}\text{C}$ (Without Flame)

### Packaging Features

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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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 # 2232563-1  
GHC 9.0MM 3POS TPA




TE Part # CAT-G7534-R2435  
GRACE INERTIA Receptacle




TE Part # 1903415-1  
GHC 9.0 3POS HDR ASSY

### Also in the Series | GRACE INERTIA 9.0



Rectangular Connector Locking(1)



Rectangular Power Connectors(9)

### Customers Also Bought



TE Part #316090-1  
2.5 SIGNAL D/LOCK CAP HSG 6P



TE Part #1746973-1  
GRACE INERTIA CONNECTOR 6.2  
MM PITCH TAB



TE Part #917694-1  
2.5 SIGNAL D/LOCK PLUG HSG 10P



TE Part #917706-1  
2.5 SIGNAL DBL LOCK DLP 10P



TE Part #63610-2  
SPRING SPADE TERMINAL 14-10  
AWG TPBR



TE Part #2232905-1  
EP 2.5 LIF RCPT CONTACT, 26-22  
AWG



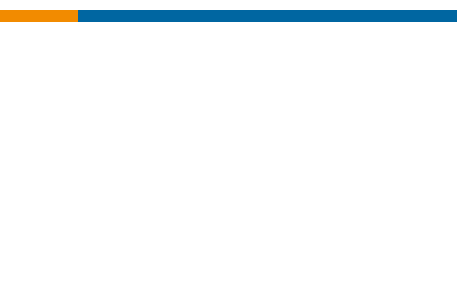
TE Part #2-1969541-6  
RETAINER, TPA, DUAL ROW, EP2.5



TE Part #2-2323743-6  
HOUSING, PLUG, GWT, 26P, DUAL  
ROW, EP2.5



TE Part #2232111-3  
250 FASTON, FLAG, REC., 12-20 AWG,  
TPBR



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

## Documents

### Product Drawings

#### GHC 9.0 3POS PLUG HSG

English

### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1903414-2\\_K.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1903414-2\\_K.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1903414-2\\_K.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Product Specifications



### Application Specification

English

---

### Product Environmental Compliance

#### Product Compliance

English

#### Product Compliance

English