

1-1565081-1 ✓ ACTIVE



TE Internal #: 1-1565081-1

Rectangular Power Connectors, Housing, Plug, Wire-to-Wire, 2  
Position, 3.5mm [.138in] Centerline, Wire & Cable, UL 94V-0, GWT  
750°C (Without Flame)

[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-Wire**

Number of Positions: **2**

Centerline (Pitch): **3.5 mm [ .138 in ]**

[All Glow Wire GRACE INERTIA Plug \(79\)](#)

## Features

### Product Type Features

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

### Configuration Features

Number of Positions	2
Keying	A
Number of Power Positions	2
Number of Signal Positions	2
Number of Rows	1

### Electrical Characteristics

Dielectric Withstanding Voltage (Max)	2000 VDC
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Operating Voltage	300 VDC
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Insulation Resistance	1000 MΩ
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### Contact Features

Contact Layout	Inline
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Contact Base Material	Copper Alloy
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Contact Current Rating (Max)	7 A
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Contact Retention Within Housing	With
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Contact Type	Receptacle
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Contact Mating Area Plating Material	Tin
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Contact Mating Area Plating Material Thickness	.8 μm[31.5 μin]
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### Termination Features

Termination Method to Wire & Cable	Crimp
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Wire/Cable Type	Stranded
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Wire Type	Stranded
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### Mechanical Attachment

Strain Relief	Without
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Mating Alignment Type	Keyed
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Mating Alignment	With
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PCB Mount Alignment	Without
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PCB Mount Retention	Without
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Connector Mounting Type	Cable Mount (Free-Hanging)
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Mating Retention	With
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Mating Retention Type	Inertia Locking, Latch, Locking Latch
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### Housing Features

Centerline (Pitch)	3.5 mm[.138 in]
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Housing Color	Natural
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Housing Material	PA 66
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### Dimensions

Wire Size	256.56 – 1776.17 CMA
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Height	9.55 mm[.375315 in]
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### 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)
Agency/Standard	UL

### Packaging Features

Packaging Method	Bag
Packaging Quantity	400

### Other

For Use With	Cap Housing
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### 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	Not Yet Reviewed
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: JUN 2020 (209) Candidate List Declared Against: JUN 2020 (209) 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>



## Documents

### Product Drawings

#### GIC 3.5W 2P PLUG(GWT) NAT

English

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### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-1565081-1\\_J.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-1565081-1\\_J.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-1565081-1\\_J.3d\\_stp.zip](#)

English

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

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### Product Specifications

#### Engineering Report

English

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### Product Environmental Compliance

[MD\\_1-1565081-1\\_12042017856\\_dmtec](#)

English

[MD\\_1-1565081-1\\_12042017856\\_dmtec](#)

English

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### Instruction Sheets

#### Extraction Tool for GIC 3.5 Conn.

Japanese

#### Instruction Sheet (non U.S.)

Japanese

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### Agency Approvals

#### UL Report

English