

1565088-1 ✓ ACTIVE



GRACE INERTIA 3.5

TE Internal #: 1565088-1

Rectangular Power Connectors, Housing, Receptacle, Wire-to-Wire,
6 Position, .138 in [3.5 mm] Centerline, Wire & Cable, UL 94V-0,
GRACE INERTIA 3.5

[View on TE.com >](#)

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors > STD Temp GRACE INERTIA Cap



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **6**

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

[All STD Temp GRACE INERTIA Cap \(24\)](#)

Features

Product Type Features

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

Configuration Features

Number of Positions	6
Keying	A
Number of Power Positions	0
Number of Signal Positions	0
Number of Rows	2

Electrical Characteristics



Operating Voltage	300 VAC
-------------------	---------

Contact Features

Contact Base Material	Copper Alloy
-----------------------	--------------

Contact Retention Within Housing	Without
----------------------------------	---------

Contact Type	Tab
--------------	-----

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	Inertia Locking, Latch, Locking Latch
-----------------------	---------------------------------------

Housing Features

Centerline (Pitch)	3.5 mm [.138 in]
--------------------	------------------

Housing Color	Natural
---------------	---------

Housing Material	Nylon 6/6
------------------	-----------

Dimensions

Wire Size	.129 – .823 mm ²
-----------	-----------------------------

Row-to-Row Spacing	4.8 mm [.189 in]
--------------------	------------------

Height	13.95 mm [.548 in]
--------	--------------------

Length	12.55 mm [.493 in]
--------	--------------------

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	Standard Part - Not Glow Wire
------------------	-------------------------------



Packaging Features

Packaging Method	Bag
Packaging Quantity	200

Other

For Use With	Plug Housing : 1565084-1
--------------	--------------------------

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	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

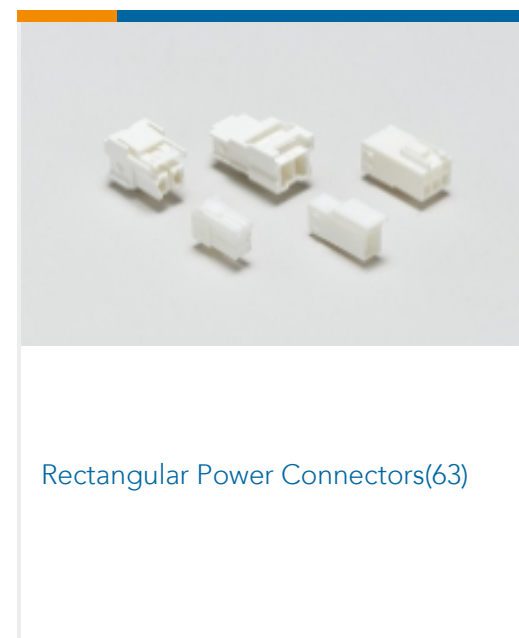
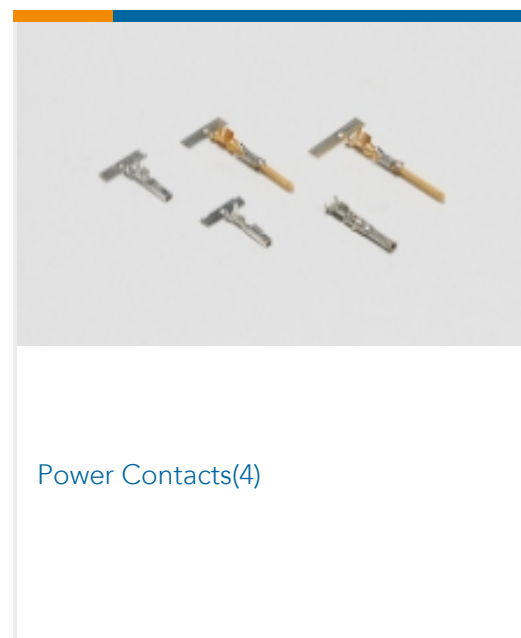
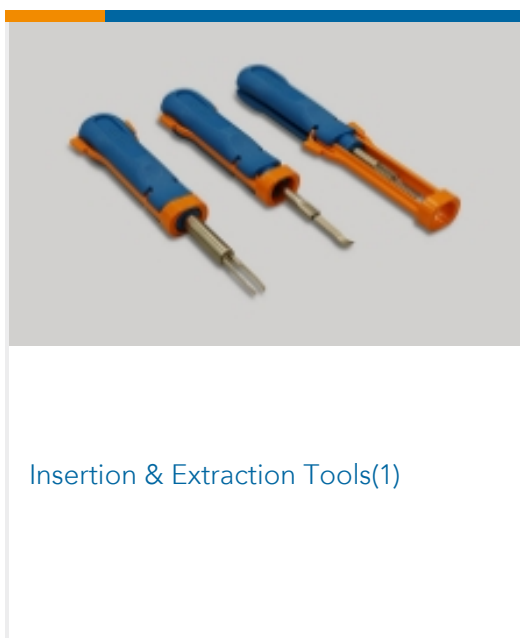
Product Compliance Disclaimer

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



Also in the Series | **GRACE INERTIA 3.5**



Customers Also Bought



Documents

Product Drawings

GRACE INERTIA CONNECTOR 3.5 6P

English

CAD Files

3D PDF

English

**Customer View Model**[ENG_CVM_1565088-1_O.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_1565088-1_O.3d_stp.zip](#)

English

Customer View Model[ENG_CVM_1565088-1_O.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model[ENG_CVM_CVM_1565088-1_B.2d_dxf.zip](#)

English

Customer View Model[ENG_CVM_CVM_1565088-1_B.3d_igs.zip](#)

English

Customer View Model[ENG_CVM_CVM_1565088-1_B.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

[1-1773883-5 GRACE INERTIA connector quick reference guide](#)

English

Product Specifications[Product Specification](#)

English

Product Environmental Compliance[MD_1565088-1_03242017421_dmtec](#)

English

[MD_1565088-1_03242017421_dmtec](#)

English

Instruction Sheets[Extraction Tool for GIC 3.5 Conn.](#)

Japanese

[Instruction Sheet \(non U.S.\)](#)

Japanese

Agency Approvals[UL Report](#)

1565088-1

Rectangular Power Connectors, Housing, Receptacle, Wire-to-Wire, 6 Position, .138 in [3.5 mm] Centerline, Wire & Cable, UL 94V-0, GRACE INERTIA 3.5



English