4-1565085-3 ✔ ACTIVE

GRACE INERTIA | GRACE INERTIA 3.5

TE Internal #: 4-1565085-3

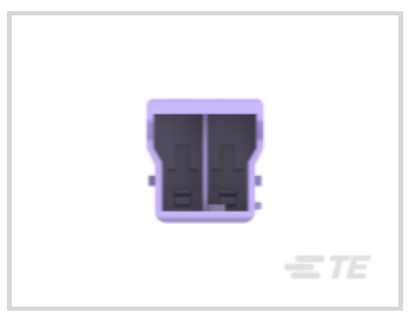
2 Position, Cap, Housing, Crimp, Wire-to-Wire, Tin (Sn), UL 94V-0, 3.5 mm [.138 in] Centerline, 1 Row, 300 VAC, Wire & Cable, GRACE INERTIA 3.5

View on TE.com >

Connectors > Rectangular Connectors > Standard Rectangular Connectors







Connector Product Type: **Housing**

Connector & Housing Type: **Cap**

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Mating Retention: **With**

Features

Product Type Features

Compatible With Discrete Wire Type	Stranded
Connector Product Type	Housing
Connector & Housing Type	Cap
Connector System	Wire-to-Wire
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

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

Electrical Characteristics

Insulation Resistance	1000 MΩ
Operating Voltage	300 VDC

Body Features

Primary Product Color	Violet

Contact Features

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

Termination Features

Termination Method to Wire & Cable	Crimp

Mechanical Attachment

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

Housing Features

Centerline (Pitch)	3.5 mm[.138 in]
Housing Material	PA 66/6

Dimensions

Connector Height	9.3 mm[.366 in]
Connector Length	9.05 mm[.356 in]
Wire Size	256.56 – 1776.17 CMA

Usage Conditions

Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]

Operation/Application

Circuit Application	Power & Signal

Industry Standards

Compatible With Agency/Standards Products	CNR, USR
UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity	400
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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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

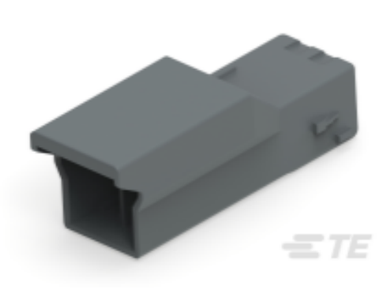
Compatible Parts



TE Part # 4-1565081-1
GIC 3.5W 2P PLUG E



TE Part # 4-1565081-3
GIC 3.5W 2P PLUG G



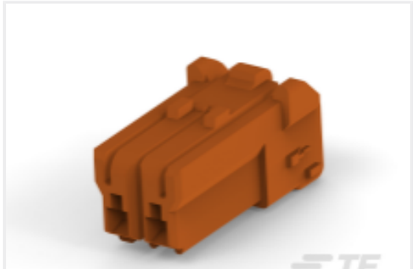
TE Part # 4-1565085-1
GIC 3.5W 2P CAP E



TE Part # 4-1565085-4
GIC 3.5W 2P CAP H



TE Part # CAT-G7534-C1701A
Glow Wire GRACE INERTIA Cap



TE Part # 4-1565081-2
GIC 3.5W 2P PLUG F

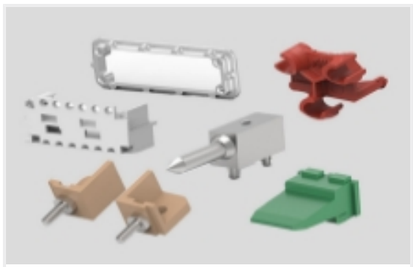


TE Part # 4-1565085-2
GIC 3.5W 2P CAP F

Also in the Series | GRACE INERTIA 3.5



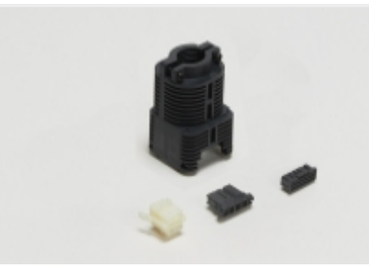
Connector Contacts(4)



Connector Hardware(7)



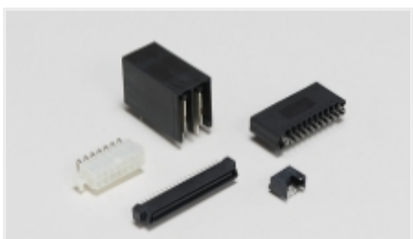
Power Contacts(4)



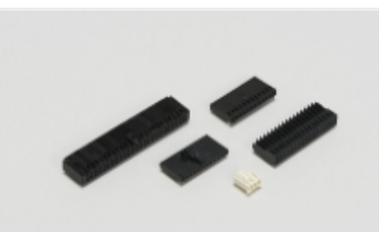
Rectangular Connector Housings(68)



Rectangular Power Connectors(68)



Standard Rectangular Connectors(68)



Wire-to-Board Connector Assemblies & Housings(1)

Customers Also Bought



TE Part #114017-ZZ
SEALING PLUG, SIZE 12/16, WHT



TE Part #DT04-2P
REC, 2P, GRY, N



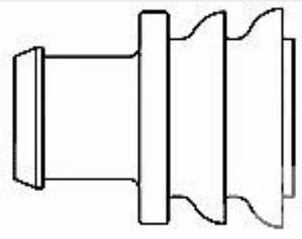
TE Part #DT06-2S
PLG, 2P, GRY, N



TE Part #CAT-D48-ST273
DEUTSCH Connector Solid Contacts



TE Part #CAT-D487-W416
Wedgelocks: DEUTSCH DT



TE Part #281934-2
SINGLE WIRE SEAL



TE Part #CAT-AM71-CH8172
AMP SUPERSEAL 1.5MM, CONNECTOR HOUSING

Documents

Product Drawings

GIC 3.5W 2P CAP G

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_4-1565085-3_H.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_4-1565085-3_H.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_4-1565085-3_H.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications

Product Specification

English

Product Specification

English

Instruction Sheets

Extraction Tool for GIC 3.5 Conn.

Japanese

Instruction Sheet (non U.S.)

Japanese

Agency Approvals

UL Report

English