

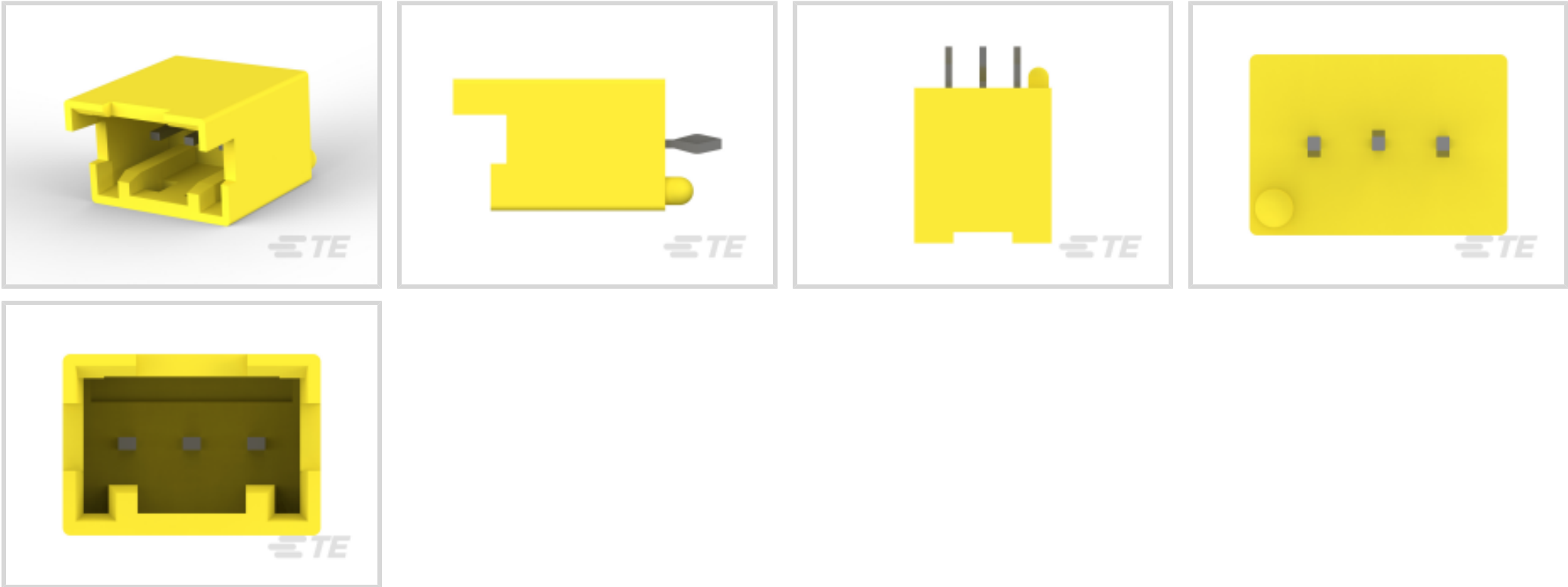


GRACE INERTIA 2.5

TE Internal #: 3-1871843-3
PCB Mount Header, Vertical, Wire-to-Board, 3 Position, 2.5 mm [.098 in] Centerline, Fully Shrouded, Tin, Through Hole - Solder, GRACE INERTIA 2.5

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**
PCB Mount Orientation: **Vertical**
Connector System: **Wire-to-Board**
Number of Positions: **3**
Number of Rows: **1**

Features

Electrical Characteristics

Operating Voltage	50 VDC
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Dimensions

Connector Width	7 mm[.27 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	11.3 mm[.44 in]
Connector Length	10 mm[.393 in]

Packaging Features

Packaging Quantity	400
Packaging Method	Bag

Industry Standards

Compatible With Agency/Standards Products	UL
UL Flammability Rating	UL 94V-0

Mechanical Attachment

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Mating Retention	With
Mating Alignment Type	Polarization
PCB Mount Retention Type	Kinked
PCB Mount Alignment Type	Boss
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Termination Features

Termination Post & Tail Length	3 mm[.118 in]
Square Termination Post & Tail Dimension	.5 mm[.02 in]
Termination Method to PCB	Through Hole - Solder

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 μm[50 μin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	1 μm[39.37 μin]
Mating Tab Width	.7 mm[.028 in]
PCB Contact Termination Area Plating Material Thickness	1 μm[39.37 μin]
Contact Layout	Inline
Contact Base Material	Brass
Mating Tab Thickness	.5 mm[.02 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material	Tin
Contact Type	Tab
Contact Current Rating (Max)	3.5 A

Housing Features

Housing Material	6/6 Nylon GF
Centerline (Pitch)	2.5 mm[.098 in]

Product Type Features

PCB Connector Assembly Type	PCB Mount Header
Connector System	Wire-to-Board



Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

PCB Mount Orientation	Vertical
Number of Positions	3
Number of Rows	1

Body Features

Primary Product Color	Yellow
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Usage Conditions

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

Circuit Application	Signal
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Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°C

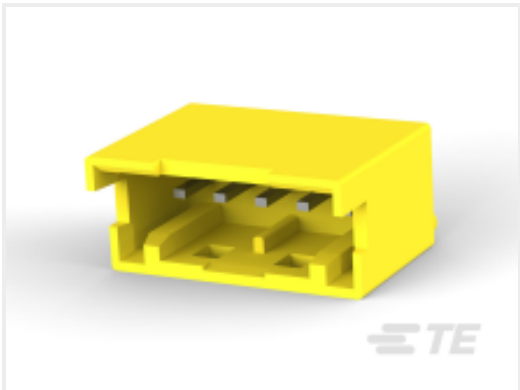
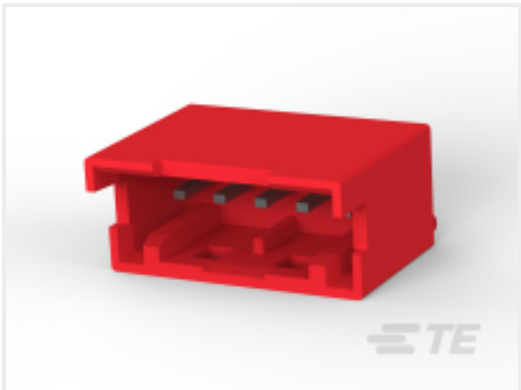
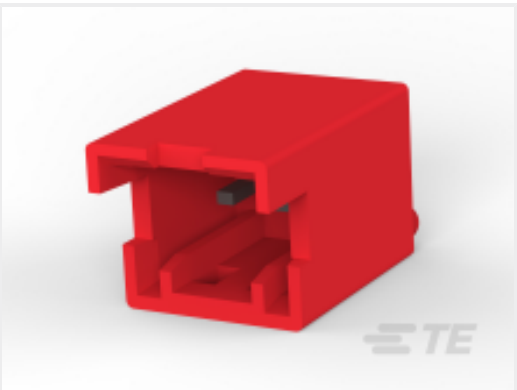
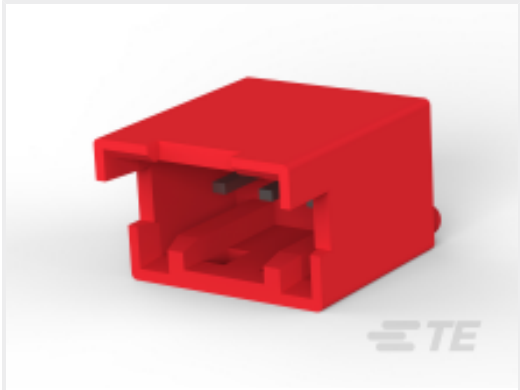
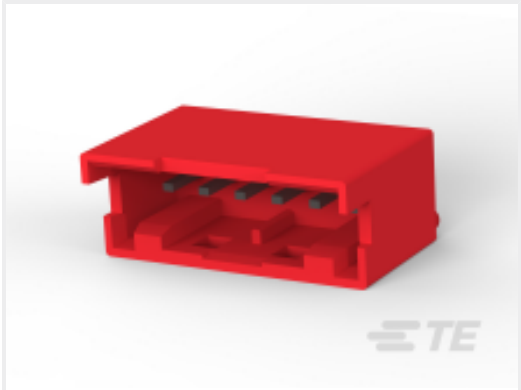
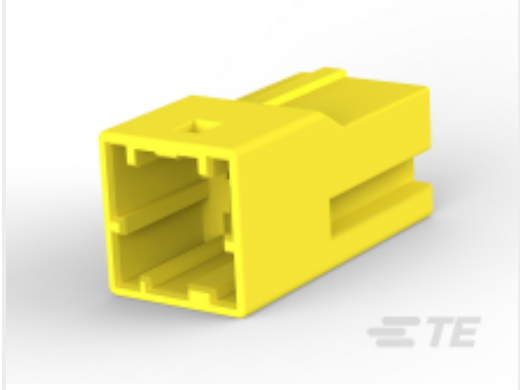
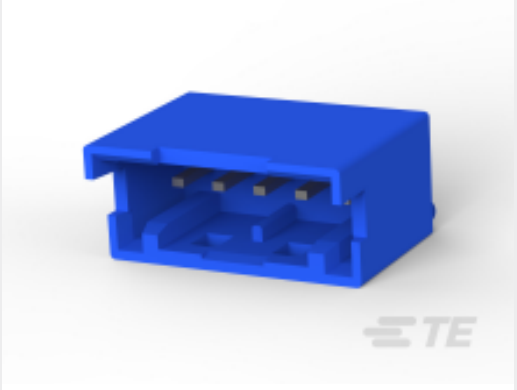
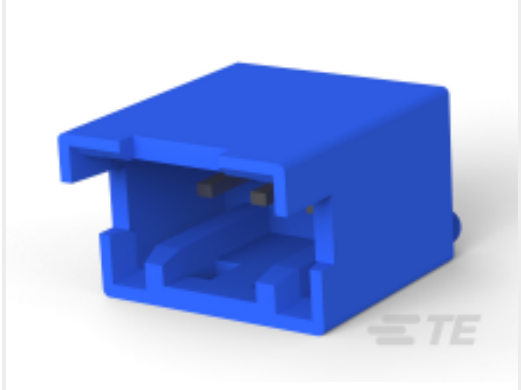
Product Compliance Disclaimer

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 # 3-1871843-5 GIC 2.5 HDR TIN VERSION 5P YELLOW	 TE Part # 1-1871843-5 GIC 2.5 HDR ASSY TIN VERSION 5P RED	 TE Part # 2013523-1 GIC 2.5 HDR ASSY TIN VERSION 2/3P	 TE Part # 1-1871843-2 GIC2.5 HDR ASSY TIN VERSION 2P RED
 TE Part # 1-1871843-3 GIC 2.5 HDR ASSY TIN VERSION 3P RED	 TE Part # 1-1871843-6 GIC2.5 HDR ASSY TIN VERSION 6P RED	 TE Part # 1871843-4 GIC2.5 HDR ASSY TIN VERSION 4P NATURAL	 TE Part # 1903392-1 GIC 2.5 W CAP HSG 3P NATURAL
 TE Part # CAT-G7534A-C1701 STD Temp Sig GRACE INERTIA Cap	 TE Part # 1871843-3 GIC 2.5 HDR ASSY TIN VERSION 3P	 TE Part # 1871843-8 GIC2.5 HDR ASSY TIN VERSION 8P NATURAL	 TE Part # 2-1871843-5 GIC 2.5 HDR ASSY TIN VERSION 5P BLUE
 TE Part # 1-1871843-8 GIC 2.5 HDR ASSY TIN VERSION 8P RED	 TE Part # 2-1871843-3 GIC 2.5 HDR ASSY TIN VERSION 3P BLUE		

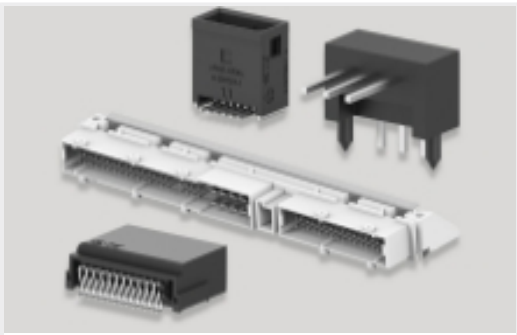
Also in the Series | GRACE INERTIA 2.5



Connector Contacts(6)



Connector Hardware(7)



PCB Headers & Receptacles(173)



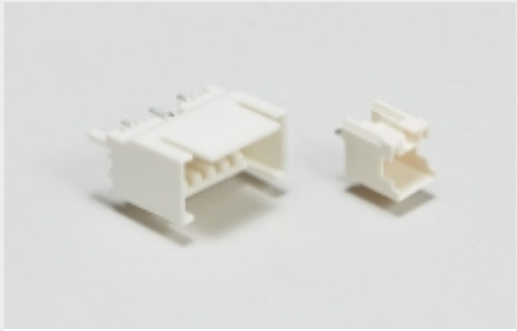
Power Contacts(2)



Rectangular Connector Housings(49)



Wire-to-Board Connector Assemblies & Housings(47)



Wire-to-Board Headers & Receptacles (173)

Customers Also Bought



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



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



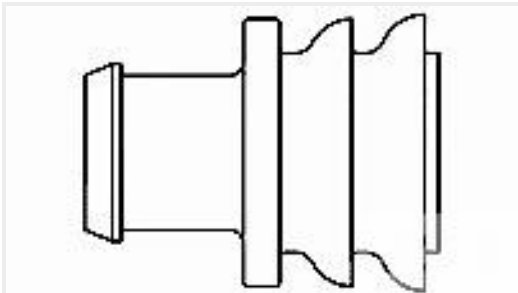
TE Part #CAT-D487-W416
Wedgelocks: DEUTSCH DT



TE Part #CAT-D48-ST273
DEUTSCH Solid Contacts



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



TE Part #281934-2
SINGLE WIRE SEAL

Documents

Product Drawings

GIC 2.5 HDR ASSY TIN VERSION 3P YELLOW

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_3-1871843-3_D.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_3-1871843-3_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-1871843-3_D.3d_stp.zip](#)

English

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[Product Specifications](#)

[Application Specification](#)

English