



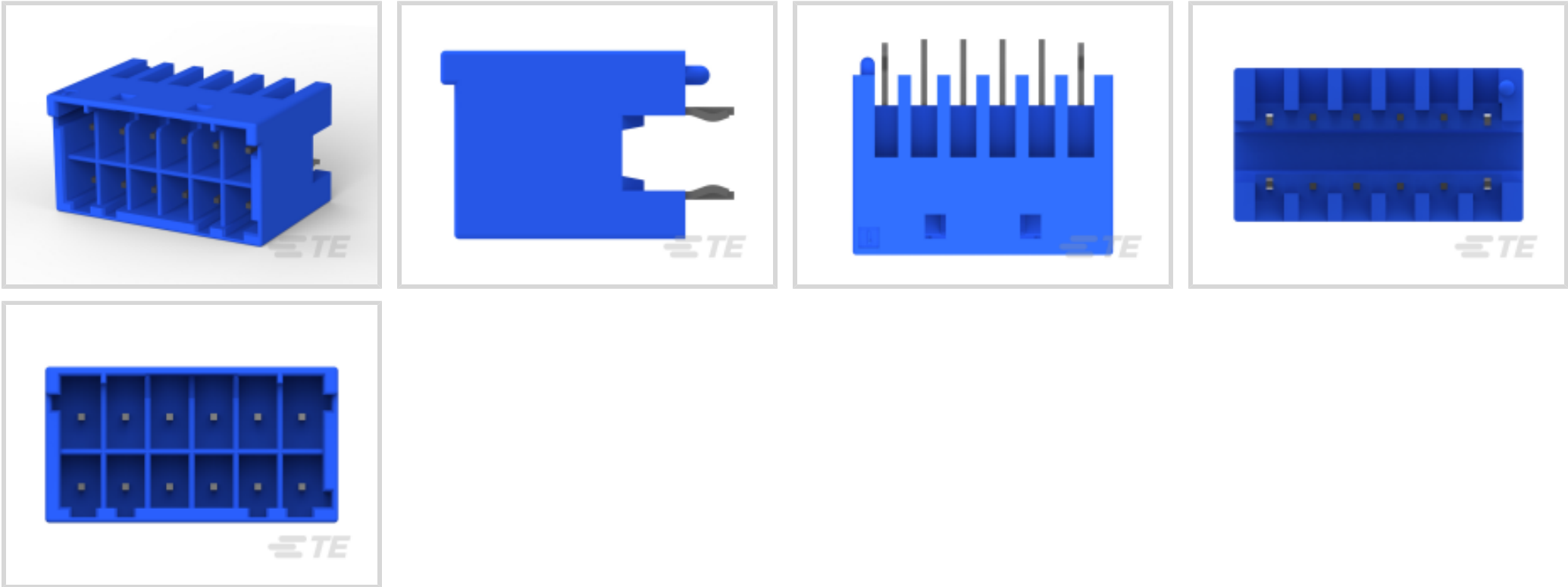
GRACE INERTIA 3.3

TE Internal #: 2-1971906-6

Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 12 Position, 3.3 mm [.129 in] Centerline, Printed Circuit Board, GRACE INERTIA 3.3

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **12**

Centerline (Pitch): **3.3 mm [.129 in]**

Features

Product Type Features

Header Type	Fully Shrouded
Rectangular Power Connector Type	Header
Connector & Housing Type	Receptacle
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	12
PCB Mount Orientation	Vertical
Number of Power Positions	12
Number of Signal Positions	12
Number of Rows	2

Electrical Characteristics

Operating Voltage	250 VDC
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Body Features

Connector & Keying Code	B
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Contact Features

Mating Post Length	6.6 mm[.26 in]
PCB Contact Termination Area Plating Material Thickness	2 µm[78.74 µin]
Contact Layout	Matrix
Mating Tab Width	.5 mm[.02 in]
Contact Underplating Material Thickness	1.25 µm[49.21 µin]
Contact Mating Area Plating Material	Tin
Contact Underplating Material	Nickel
Contact Base Material	Brass
Contact Current Rating (Max)	4 A
Contact Retention Within Housing	With
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	78.73 µm[2 µin]

Termination Features

Termination Post & Tail Length	3 mm[.118 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
Mating Alignment Type	Keyed
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	With
PCB Mount Retention Type	Kinked
Mating Retention Type	Latch
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	3.3 mm[.129 in]
Housing Color	Blue



Housing Material	PA 66 GF
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Dimensions

Connector Height	14.25 mm[.561 in]
PCB Thickness (Recommended)	.06 mm[1.6 in]
Product Length	21.9 mm[.86 in]
Wire Size	414.44 – 1045.97 CMA
Row-to-Row Spacing	5.2 mm[.205 in]

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)

Packaging Features

Packaging Quantity	175
Packaging Method	Box & Tray

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

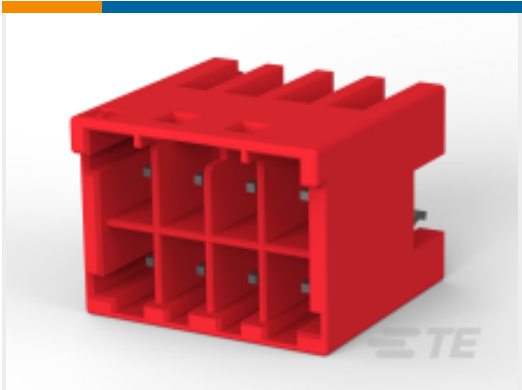
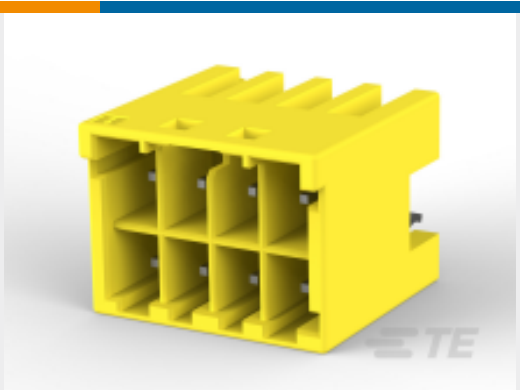
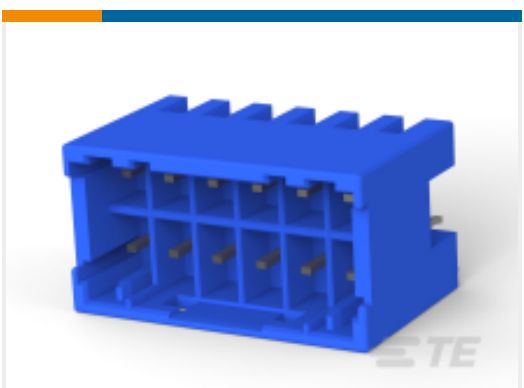
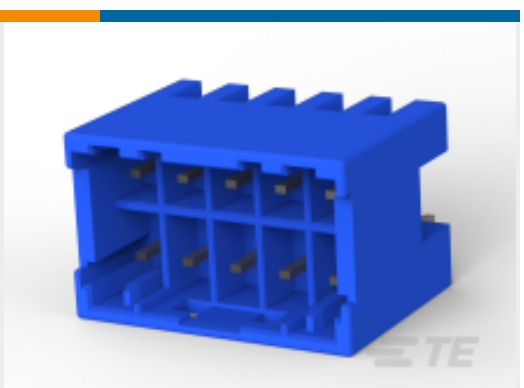
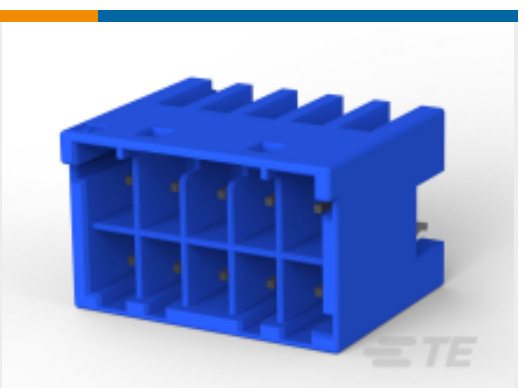
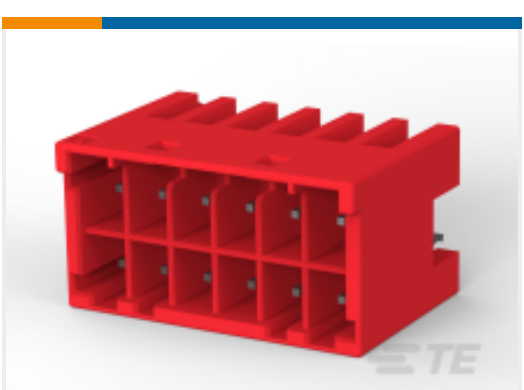
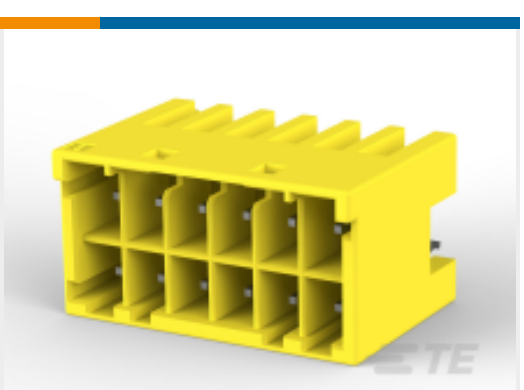
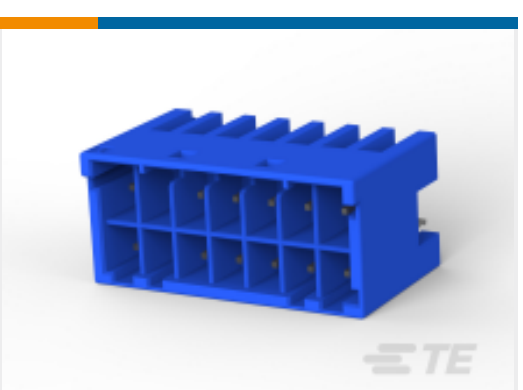
Product Compliance Disclaimer

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 # 3-1971906-4 HEADER ASSY 8POS,KEYING-C,NEW GIC3.3	 TE Part # 1-1971906-6 HEADER ASSY 12POS,KEYING-A,NEW GIC3.3	 TE Part # 4-1971906-4 HEADER ASSY 8POS,KEYING-D,NEW GIC3.3	 TE Part # 1-1971906-7 HEADER ASSY 14POS,KEYING-A,NEW GIC3.3
 TE Part # 1871822-1 GIC 3.3 12P DBL LOCK PLATE(2-ROW, M-TYPE)	 TE Part # 1939983-1 GIC3.3 HDR ASS'Y 10POS 2ROW	 TE Part # 1-1971906-3 HEADER ASSY 6POS,KEYING-A,NEW GIC3.3	 TE Part # 1-1971906-5 HEADER ASSY 10POS,KEYING-A,NEW GIC3.3
 TE Part # 1871571-1 GIC 3.3 HDR ASSY 12POS KINK	 TE Part # 2-1871571-3 GIC 3.3 HEADER ASSY 12POS	 TE Part # 2-1939983-3 GIC 3.3 HDR ASSY 10P 2ROW BLUE	 TE Part # 2-1971906-5 HEADER ASSY 10POS,KEYING-B,NEW GIC3.3
 TE Part # 2-1971906-7 HEADER ASSY 14POS,KEYING-B,NEW GIC3.3	 TE Part # 3-1971906-6 HEADER ASSY 12POS,KEYING-C,NEW GIC3.3	 TE Part # 4-1971906-6 HEADER ASSY 12POS,KEYING-D,NEW GIC3.3	 TE Part # 6-1971906-7 HEADER ASSY 14POS,KEYING-B,NEW GIC3.3

Also in the Series | GRACE INERTIA 3.3



PCB Latches, Locks & Retainers(7)

Power Contacts(3)

Rectangular Connector Locking(8)

Rectangular Power Connectors(70)

Customers Also Bought

TE Part #643749-1
06P UMNL HDR ASSY W/O DRNS

TE Part #1586039-2
2P VAL-U-LOK VRT HDR W/P V2

TE Part #63407-2
PL 187 TERMINAL REC 0.2-0.5 MM2 PTPBR

TE Part #7-1879354-0
RR03 5% 240R AMMO

TE Part #7-1633588-1
CRIMPER, WIRE 'F' .050

TE Part #1478884-2
Metric EMC Gland M16x1.5

TE Part #1217754-1
250 FASTON,FLAG,PCB TAB,TNBR

TE Part #1571627-1
FSM103A=TACT SWITCH,260G

TE Part #2-2174298-3
5mm POWER KEY 3P HDR ASSEMBLY

TE Part #4-1971906-6
HEADER ASSY 12POS,KEYING-D, NEW GIC3.3

Documents

Product Drawings
HEADER ASSY 12POS,KEYING-B,NEW GIC3.3

English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_2-1971906-6_A_c-2-1971906-6-a.2d_dxf.zip



English

Customer View Model

[ENG_CVM_CVM_2-1971906-6_A_c-2-1971906-6-a.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-1971906-6_A_c-2-1971906-6-a.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[5-1773465-4-GI3.3Flyer](#)

English

[7-1773465-7-GI3.3-ChineseFlyer](#)

[GI3.3_QRG_CN](#)

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[TE Material Declaration](#)

English