



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type:

PCB Mount Receptacle

PCB Mount Orientation:

Vertical

Connector System:

Board-to-Board

Number of Positions:

36

Number of Rows:

4

Features

Electrical Characteristics

Operating Voltage	60 VDC, 300 VDC
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Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
Connector Width	11.94 mm[.47 in]
PCB Thickness (Recommended)	1.35 mm[.053 in]
Connector Height	12.7 mm[.5 in]
Connector Length	96.26 mm[3.79 in]

Packaging Features

Packaging Quantity	22
Packaging Method	Tray

Industry Standards

Glow Wire Rating	High Temperature Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Mechanical Attachment

Mating Retention	Without
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Mating Alignment Type	Polarization
PCB Mount Retention Type	Hold-Down
PCB Mount Alignment Type	Hold-Down
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Termination Features

Termination Post & Tail Length	3.43 mm[.135 in]
Termination Method to PCB	Through Hole - Press-Fit

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 – 2.54 µm[50 – 100 µin]
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
Contact Layout	Matrix
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold
Contact Type	Receptacle
Contact Current Rating (Max)	42 A

Housing Features

Housing Material	High Temperature Thermoplastic Glass-Filled
Centerline (Pitch)	5.08 mm, 5.71 mm, 7.62 mm, 2.54 mm[.3 in][.225 in][.1 in][.2 in]

Configuration Features

Number of Columns	18
Number of Loaded Positions	36
Mating & Unmating Configuration	Normal
Number of Signal Positions	24
Number of Power Positions	12
PCB Mount Orientation	Vertical



Number of Positions	36
Number of Rows	4

Product Type Features

Mixed & Hybrid Header	Yes
Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Receptacle
Connector System	Board-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Body Features

Primary Product Color	Black
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Operation/Application

Circuit Application	Power & 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	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

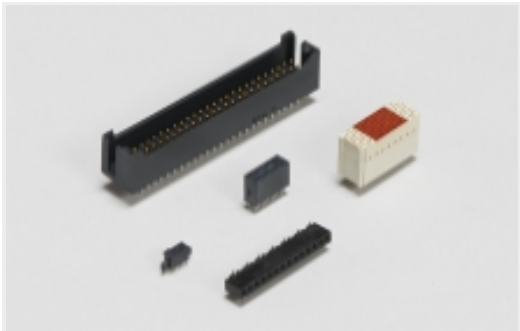
Product Compliance Disclaimer

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

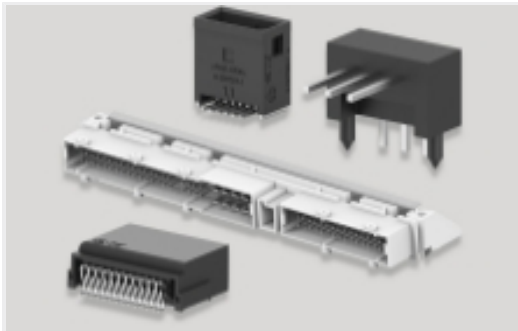


EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical 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>

Also in the Series | MULTI-BEAM XLE



Board-to-Board Headers & Receptacles(99)



PCB Headers & Receptacles(99)



Rectangular Power Connectors(12)

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



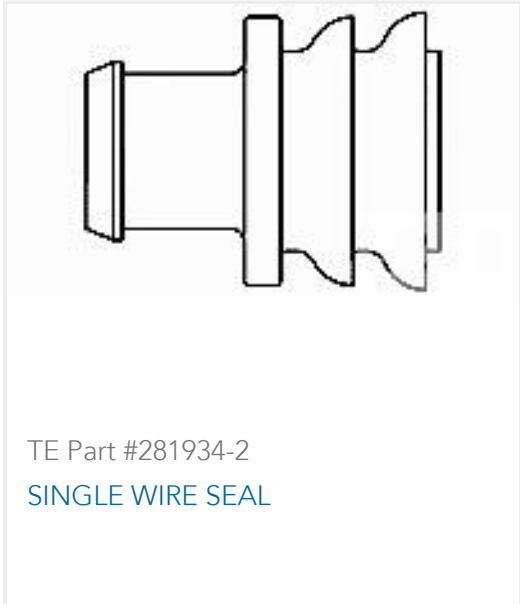
TE Part #CAT-D48-ST273  
DEUTSCH Solid Contacts



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



TE Part #206070-8  
CABLE CLAMP KIT #17



TE Part #281934-2  
SINGLE WIRE SEAL

Documents

Product Drawings  
MBXLE VERT RCPT 12P + 24S

English

CAD Files  
Customer View Model  
ENG\_CVM\_CVM\_1-6450862-9\_C.2d\_dxf.zip

1-6450862-9

PCB Mount Receptacle, Vertical, Board-to-Board, 36 Position, 2.54 mm / 5.08 mm / 5.71 mm [.1 in / .225 in / .3 in] Centerline, MULTI-BEAM XLE



English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-6450862-9\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-6450862-9\\_C.3d\\_stp.zip](#)

English

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[Product Specifications](#)

[Application Specification](#)

English