

6450860-1 ✓ ACTIVE

MULTI-BEAM | MULTI-BEAM XLE

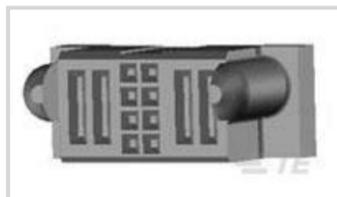
TE Internal #: 6450860-1

Rectangular Power Connectors, Connector Assembly, Receptacle, Board-to-Board, 12 Position, 2.54 mm [.1 in] Centerline, MULTI-BEAM XLE

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Connector Assembly**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **12**

Centerline (Pitch): **2.54 mm [.1 in]**

Features

Product Type Features

Assembly Requirement	Factory Assembled
Rectangular Power Connector Type	Connector Assembly
Connector & Housing Type	Receptacle
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Mating & Unmating Configuration	Normal
Number of Positions	12
PCB Mount Orientation	Vertical
Number of Power Positions	4
Number of Signal Positions	8
Number of Rows	4

Electrical Characteristics

Operating Voltage	60 VDC
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Contact Features

Power Contact Base Material	Tin
Contact Underplating Material	Nickel
Contact Current Rating (Max)	42 A



Contact Retention Within Housing	Without
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Contact Type	Receptacle
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PCB Contact Termination Area Plating Material	Tin
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Contact Mating Area Plating Material	Gold Flash over Palladium Nickel
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Contact Mating Area Plating Material Thickness	.076 μm [3 μin]
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Underplate Material Thickness	3.43 μm
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Termination Features

Termination Post & Tail Length	3.43 mm[.135 in]
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Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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Mechanical Attachment

PCB Mount Retention	Without
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Connector Mounting Type	Board Mount
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Housing Features

Centerline (Pitch)	2.54 mm[.1 in]
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Housing Color	Black
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Housing Material	High Temperature Thermoplastic
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Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
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Usage Conditions

Operating Temperature Range	-40 – 125 $^{\circ}\text{C}$ [-40 – 257 $^{\circ}\text{F}$]
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Operation/Application

Circuit Application	Power & Signal
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Industry Standards

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

Packaging Method	Tray
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Other

Wire Color	Black
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Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.te.com)>

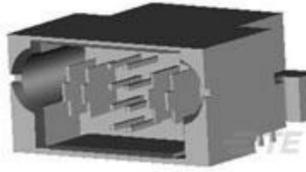


EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does 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	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 # 6450830-1
MBXL R/A HDR 2LP + 8S + 2LP



TE Part # 3-6450860-4
MBXLE VERT RCPT 2LP+8S+3LP



TE Part # 7-6450860-8
MBXLE VERT RCPT ,1P + 8S + 1P



TE Part # 7-6450860-9
MBXLE VERT RCPT ,4HDP + 92S + 4HDP

Also in the Series | MULTI-BEAM XLE



Rectangular Power Connectors(109)

Documents

Product Drawings

[MBXLE VERT RCPT 2LP+8S+2LP](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_6450860-1_D1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6450860-1_D1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6450860-1_D1.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[POWER_CONNECTORS_CATALOG_SEC01_BOARD_TO_BOARD](#)

English

[MULTI-BEAM XLE Connectors Quick Reference Guide](#)

English

[2_PIECE_POWER_CONNECTORS_qrg_4-1773458-1](#)

English

Product Specifications

[Product Specification](#)

English

Product Environmental Compliance

[MD_6450860-1_12202017559_dmtec](#)

English

[MD_6450860-1_12202017559_dmtec](#)

English

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12 Position, 2.54 mm [.1 in] Centerline, MULTI-BEAM XLE

