

6450851-1 ✓ ACTIVE

[MULTI-BEAM](#) | [MULTI-BEAM XLE](#)

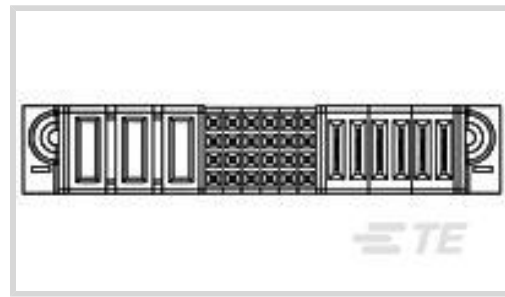
TE Internal #: 6450851-1

Rectangular Power Connectors, Connector Assembly, Receptacle,  
Board-to-Board, 46 Position, 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: **46**

Centerline (Pitch): **2.54 mm, 6.35 mm [ .1 in, .25 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	46
PCB Mount Orientation	Vertical
Number of Power Positions	14
Number of Signal Positions	32

### Electrical Characteristics

Operating Voltage	60 VDC, 200 VDC
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### Contact Features

Power Contact Base Material	Tin
Contact Current Rating (Max)	42 A
Contact Retention Within Housing	Without
Contact Type	Receptacle
PCB Contact Termination Area Plating Material	Tin



Contact Mating Area Plating Material	Noble Metal
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Contact Mating Area Plating Material Thickness	.076 $\mu\text{m}$ [3 $\mu\text{in}$ ]
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Underplate Material Thickness	3.43 $\mu\text{m}$
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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 - Solder
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### Mechanical Attachment

PCB Mount Retention	With
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PCB Mount Retention Type	Retention Clip/Post
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Connector Mounting Type	Board Mount
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Mating Retention Type	Retention Clip/Post
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### Housing Features

Centerline (Pitch)	2.54 mm, 6.35 mm[.1 in][.25 in]
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Housing Color	Black
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Housing Material	High Temperature Thermoplastic
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### Usage Conditions

Operating Temperature Range	-20 – 105 °C[-4 – 221 °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
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EU ELV Directive 2000/53/EC	Compliant
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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	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 # 1-6450831-4  
MBXLE R/A HDR 32S+14P



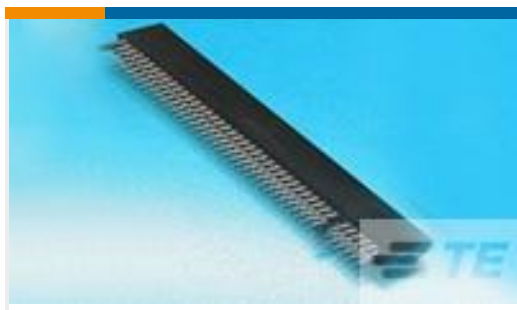
TE Part # 2-6450851-2  
MBXLE VERT RCPT 32S + 14P

### Also in the Series | MULTI-BEAM XLE



Rectangular Power Connectors(109)

### Customers Also Bought



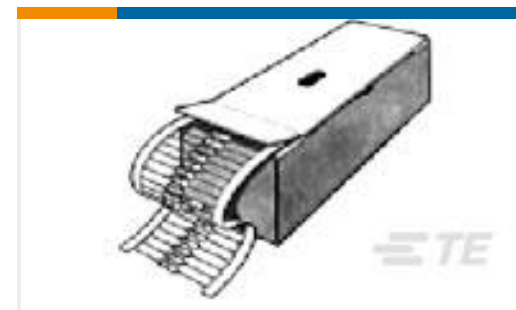
TE Part #5530843-7  
CONN SEC II 30 POS 100C/L



TE Part #5650118-2  
CONN SEC II 10 POS 100C/L R/A



TE Part #1551953-1  
Pluggable busbar assembly



TE Part #1-2176081-0  
EP 1W (S) 330R 5%



TE Part #3-794677-8  
8POS MICRO MNL ASSY,R/A,THRU



TE Part #2-1546720-8  
JC6-E107-03-221=JC6 ASSEMBLY



TE Part #1108810-1  
HP.3.AWG.2

## Documents

### Product Drawings

[MBXLE VERT RCPT 32S + 14P](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_6450851-1\\_A1.2d\\_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_6450851-1\\_A1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_6450851-1\\_A1.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

[2\\_PIECE\\_POWER\\_CONNECTORS\\_qrg\\_4-1773458-1](#)

English

### Product Specifications

[Product Specification](#)

English