

5-6450860-0 ✓ ACTIVE

MULTI-BEAM | MULTI-BEAM XLE

TE Internal #: 5-6450860-0

Rectangular Power Connectors, Connector Assembly, Receptacle, Board-to-Board, 32 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: **32**

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	32
PCB Mount Orientation	Vertical
Number of Power Positions	8
Number of Signal Positions	24
Number of Rows	4

### Electrical Characteristics

Operating Voltage	60 VDC
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### Body Features

Wire Color (Base)	Black
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### Contact Features

Power Contact Base Material	Tin
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Contact Underplating Material Thickness	3.43 $\mu\text{m}$
Contact Mating Area Plating Material	Gold
Contact Underplating Material	Nickel
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 Thickness	.076 $\mu\text{m}$ [3 $\mu\text{in}$ ]

### Termination Features

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

### Mechanical Attachment

PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Retention Type	Boardlock
Connector Mounting Type	Board Mount

### Housing Features

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

### 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
Glow Wire Rating	High Temperature Part - Not Glow Wire

### Packaging Features

Packaging Method	Tray
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## 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	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



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

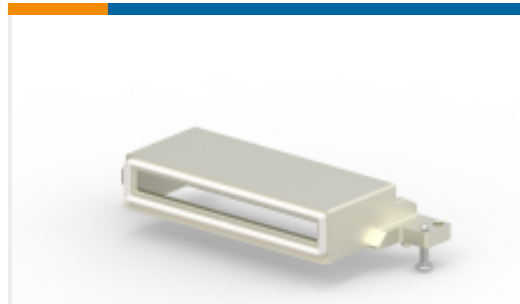


Rectangular Power Connectors(111)

## Customers Also Bought



TE Part #1888653-3  
2X1 OFFSET ST/JK WITH LEDS



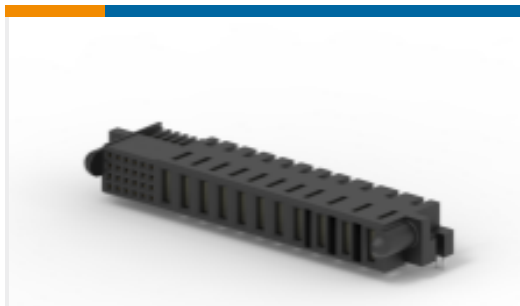
TE Part #2304452-1  
RECEPTACLE COVER WITH GASKET,  
CFP2 1X1



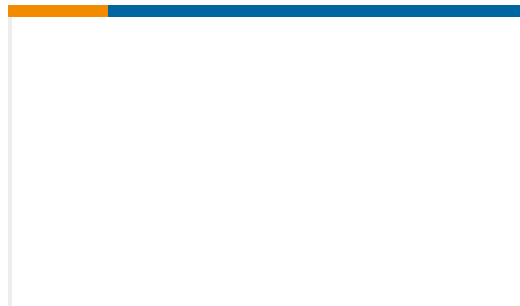
TE Part #104501-1  
PDBB 125 F2 Bus Bar PDS W/GDE



TE Part #1888631-5  
QSFP 1X1 CAGE ASSY , THRU BEZEL,  
CUST HS



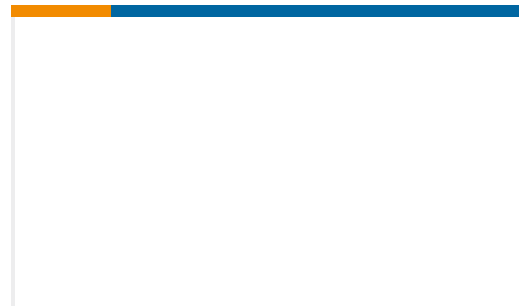
TE Part #2204145-3  
MBXLE R/A RCPT 3ACP + 8P + 26S



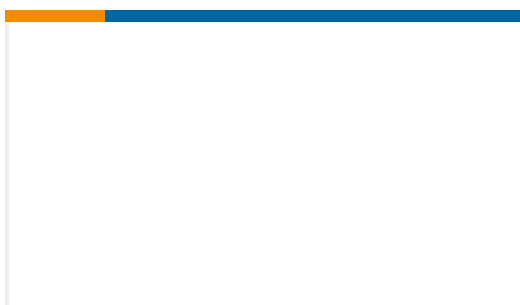
TE Part #2358475-1  
MBHD R/A REC. 15S+3P+3P+15S FOR  
30u'



TE Part #6450530-5  
MBXL R/A HDR 2P+24S+2P



TE Part #2-6450820-7  
MBXL VERT HDR 1P+16S+1P



TE Part #2057086-6  
SFP+ Enhanced 1x1 Cage Assembly

## Documents

### Product Drawings

[MBXLE VERT RCPT 3HDP+1LP+24S+1LP+3HDP](#)

English

### CAD Files

[3D PDF](#)

[3D](#)

### Customer View Model

[ENG\\_CVM\\_CVM\\_5-6450860-0\\_J.2d\\_dxf.zip](#)



English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_5-6450860-0\\_J.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_5-6450860-0\\_J.3d\\_stp.zip](#)

English

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**Product Specifications**

[Application Specification](#)

English

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**Agency Approvals**

[UL Report](#)

English