



MULTI-BEAM | MULTI-BEAM XLE

TE Part # 2204188-4

TE Internal #: 2204188-4

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Product Type: **Header**

Housing Type: **Plug**

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

Number of Positions: **48**

Centerline (Pitch): **2.54 mm, 6.35 mm [ .1 in, .25 in ]**

## Features

### Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Product Type                      | Header                |
| Housing Type                      | Plug                  |
| Connector System                  | Board-to-Board        |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |
| Contact Type                      | Pin                   |

### Configuration Features

|                              |                |
|------------------------------|----------------|
| Number of Positions          | 48             |
| PCB Mount Orientation        | Right Angle    |
| Number of Power Positions    | 16             |
| Number of Signal Positions   | 32             |
| Number of Rows               | 4              |
| Row-to-Row Spacing           | .1 mm[.003 in] |
| Board-to-Board Configuration | Right Angle    |

### Electrical Characteristics

|                   |                 |
|-------------------|-----------------|
| Operating Voltage | 60 VDC, 200 VDC |
|-------------------|-----------------|

### Contact Features

|                              |      |
|------------------------------|------|
| Power Contact Material       | Tin  |
| Contact Current Rating (Max) | 42 A |



|   |                |
|---|----------------|
| Contact Retention                         | Without        |
| Contact Termination Area Plating Material | Tin            |
| Contact Mating Area Plating Material      | Noble Metal    |
| Contact Mating Area Plating Thickness     | .076 μm[3 μin] |
| Underplate Material Thickness             | 3.05 μm        |

**Termination Features**

|   |                          |
|---|--------------------------|
| Termination Post & Tail Length              | 3.05 mm[.12 in]          |
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |

**Mechanical Attachment**

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

**Housing Features**

|                        |                                 |
|------------------------|---------------------------------|
| Centerline (Pitch)     | 2.54 mm, 6.35 mm[.1 in][.25 in] |
| UL Flammability Rating | UL 94V-0                        |
| Housing Color          | Black                           |
| Housing Material       | High Temperature Thermoplastic  |

**Usage Conditions**

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -20 – 105 °C[-4 – 221 °F] |
|-----------------------------|---------------------------|

**Operation/Application**

|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

**Industry Standards**

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

**Packaging Features**

|                  |      |
|------------------|------|
| Packaging Method | Tray |
|------------------|------|

**Product Compliance**

[For compliance documentation, visit the product page on TE.com>](#)

|   |   |
|---|---|
| EU RoHS Directive 2011/65/EU                  | Not Yet Reviewed                        |
| EU ELV Directive 2000/53/EC                   | Not Yet Reviewed                        |
| 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: JAN 2019 (197)  
 Candidate List Declared Against: JUN 2018 (191)

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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

### Compatible Parts



TE Part # 4-6450540-9  
 MBXL VERT RCPT  
 8P+32S+8P

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



Rectangular Power Connectors(170)

### Customers Also Bought



TE Part #2173234-1  
Heat Sink Clip zQSFP+



TE Part #6368062-8  
2X4 OFFSET STK MJ,  
SHLD,W/LED



TE Part #1-5406552-7  
INV MJ,1X4,PNL GRD,LED  
(-/G) W



TE Part #5-794679-4  
24P MICRO MNL ASSY,R  
/A,THRU,LF



TE Part #1-1658013-2  
MSB0.80PL5ASY56DP,-,10,  
VCTY



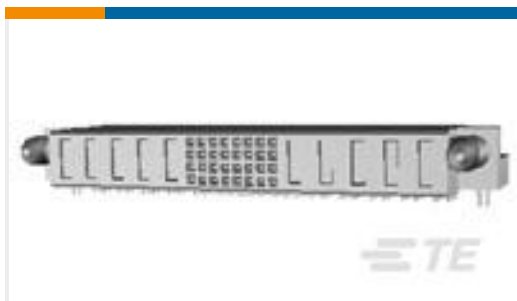
TE Part #1-2204147-6  
MBXL R/A RCPT  
8P+32S+8P



TE Part #354687-2  
Z-PACK HS3 REPAIR HT  
KIT



TE Part #4-1658012-2  
MSB0.80RC-ASY080FL,GP,  
10,-TR



TE Part #6450560-2  
MBXL R/A RCPT  
5P+32S+5P



TE Part #786155-5  
50 50SR VRT RCPT,LTCH,  
ACT PIN

## Documents

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2204188-4\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2204188-4\\_1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2204188-4\\_1.3d\\_stp.zip](#)

English

### Product Specifications

Application Specification

English

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