

6450849-7 ✓ ACTIVE

MULTI-BEAM | MULTI-BEAM XLE

TE Internal #: 6450849-7

Rectangular Power Connectors, Connector Assembly, Plug, Board-to-Board, 40 Position, 5.08 mm [.2 in] Centerline, Printed Circuit Board, MULTI-BEAM XLE

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Connector Assembly**

Connector & Housing Type: **Plug**

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

Number of Positions: **40**

Centerline (Pitch): **5.08 mm [.2 in]**

## Features

### Product Type Features

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

### Configuration Features

Mating & Unmating Configuration	Normal
Number of Positions	40
PCB Mount Orientation	Right Angle
Number of Power Positions	8
Number of Signal Positions	32
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
Contact Underplating Material Thickness	5.33 $\mu$ m
Contact Mating Area Plating Material	Gold
Contact Underplating Material	Nickel
Contact Current Rating (Max)	50 A
Contact Retention Within Housing	Without
Contact Type	Blade, Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 $\mu$ m[30 $\mu$ in]

### Termination Features

Termination Post & Tail Length	5.33 mm[.21 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

### Mechanical Attachment

PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail
Mating Retention Type	Action/Compliant Tail
Connector Mounting Type	Board Mount

### Housing Features

Centerline (Pitch)	5.08 mm[.2 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 °C[-40 – 257 °F]
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### Operation/Application

Circuit Application	Power & Signal
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### Industry Standards

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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	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed 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>

### Compatible Parts





## Also in the Series | MULTI-BEAM XLE



Rectangular Power Connectors(111)

## Customers Also Bought



TE Part #324587  
TERMINAL,PIDG SPD FLG 12-10 6



TE Part #322224  
TERMINAL,SOLIS R 2/0 5/8



TE Part #1-1469492-9  
MULTIGIG RT 9MM GUIDE/ESD UNKE



TE Part #6450843-6  
MBXLE R/A HEADER 7ACP



TE Part #1-1469491-2  
MULTIGIG RT GUIDEPIN, 9MM 2.60



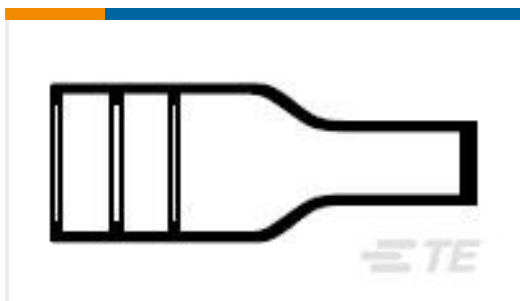
TE Part #1-534998-2  
24 MODIV VRT DR CE 100/125



TE Part #6-103166-0  
24 MODII HDR DRRR SHRD LF



TE Part #4-2176329-9  
CRGP 1210 100K 1%



TE Part #806995-000  
202D121-3/86-0



TE Part #830178-1  
RECEPTACLE

## Documents

### Product Drawings

[MBXLE R/A HED 2ACP+1LP+32S+3HDP+1LP+1P](#)

English

### CAD Files

[3D PDF](#)

[3D](#)



**Customer View Model**

[ENG\\_CVM\\_CVM\\_6450849-7\\_3.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_6450849-7\\_3.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_6450849-7\\_3.3d\\_stp.zip](#)

English

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

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**Datasheets & Catalog Pages**

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

English

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**Product Specifications**

[Application Specification](#)

English

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**Product Environmental Compliance**

[Product Compliance](#)

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[Product Compliance](#)

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