

6450820-6 ✓ ACTIVE

MULTI-BEAM | MULTI-BEAM XLE

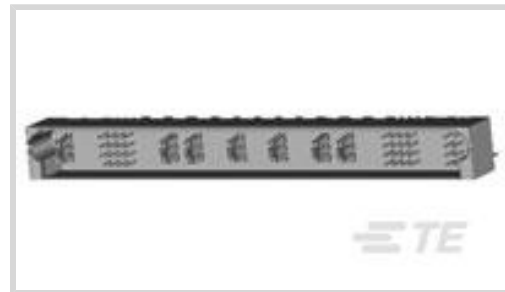
TE Internal #: 6450820-6

Rectangular Power Connectors, Connector Assembly, Plug, Board-to-Board, 36 Position, 2.54 mm / 6.35 mm [.25 in / .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: **Plug**

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

Number of Positions: **36**

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	Plug
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Mating & Unmating Configuration	Normal
Number of Positions	36
PCB Mount Orientation	Vertical
Number of Power Positions	12
Number of Signal Positions	24
Number of Rows	4

### Electrical Characteristics

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

Power Contact Base Material	Tin
Contact Underplating Material	Nickel
Contact Current Rating (Max)	50 A



Contact Retention Within Housing	Without
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Contact Type	Blade, Pin
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PCB Contact Termination Area Plating Material	Gold
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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 $\mu\text{m}$ [3 $\mu\text{in}$ ]
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Underplate Material Thickness	4.45 $\mu\text{m}$
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### Termination Features

Termination Post & Tail Length	4.45 mm[.175 in]
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Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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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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### 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>](#)

EU RoHS Directive 2011/65/EU	Not Yet Reviewed
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: DEC 2012 (138) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not applicable 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 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



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



## Documents

### Product Drawings

[XLE V/H 2P/24S/1P/2ACP/ 5P/2AC](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_6450820-6\\_F.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_6450820-6\\_F.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_6450820-6\\_F.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

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

English

### Product Specifications

[Application Specification](#)

English