

3-6450170-8 ✓ ACTIVE



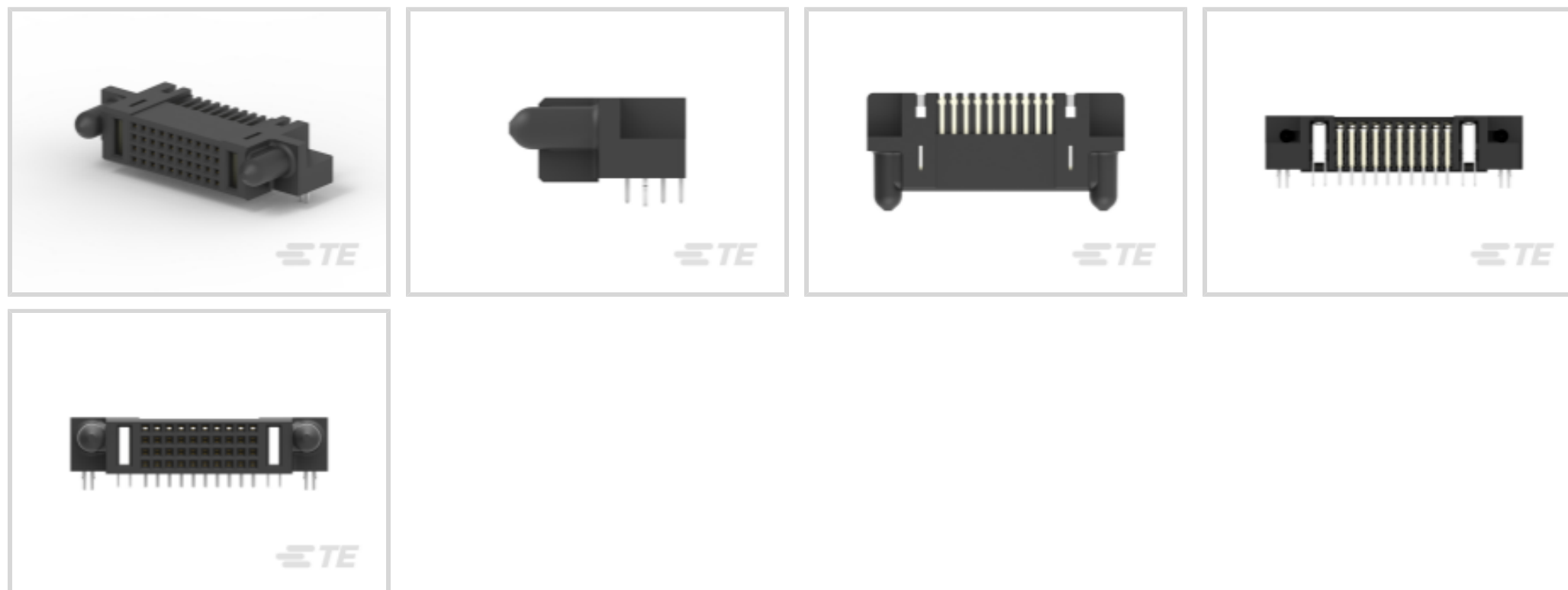
## MULTI-BEAM

TE Internal #: 3-6450170-8

Rectangular Power Connectors, Header, Receptacle, Board-to-Board, 42 Position, 2.54mm [.1in] Centerline, Printed Circuit Board, UL 94V-0

[View on TE.com >](#)

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **42**

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

## Features

### Product Type Features

Rectangular Power Connector Type	Header
Connector & Housing Type	Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

### Configuration Features

Number of Positions	42
PCB Mount Orientation	Right Angle
Number of Power Positions	2
Number of Signal Positions	40
Number of Rows	4

### Electrical Characteristics

Operating Voltage	60 VDC
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### Contact Features



Contact Current Rating (Max)	42 A
Contact Retention Within Housing	Without
Contact Type	Socket
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Noble Metal
Contact Mating Area Plating Material Thickness	.76 $\mu\text{m}$ [30 $\mu\text{in}$ ]

### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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### Mechanical Attachment

Connector Mounting Type	Board Mount
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### 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	-20 – 105 $^{\circ}\text{C}$ [-4 – 221 $^{\circ}\text{F}$ ]
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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](https://www.te.com)>

EU RoHS Directive 2011/65/EU	Compliant
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: JUN 2020 (209)

Candidate List Declared Against: JAN 2020 (205)

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 Model / Part # 6-6450330-5  
MBXL R/A HDR 1P+40S+1P



TE Model / Part # 1892130-3  
MBXL R/A HEADER W/ GUIDE ,  
1P+40S+1P

### Customers Also Bought



TE Model / Part #6-6450330-5  
MBXL R/A HDR 1P+40S+1P



TE Model / Part #3-647167-4  
04P MTA100 HDR ASSY SM 15AU LF



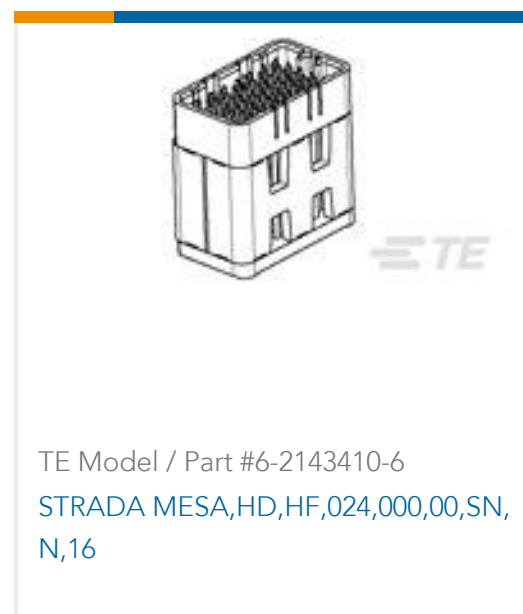
TE Model / Part #2057748-3  
IMP100S,H,V2P16C,UG,OEWS39,5,5



TE Model / Part #9-1614352-7  
RN 0603 118R 0.1% 10PPM 1K RL



TE Model / Part #2-216263-1  
64P.IEC-G FEM.CONN.



TE Model / Part #6-2143410-6  
STRADA MESA,HD,HF,024,000,00,SN,  
N,16



TE Model / Part #646478-1  
2MM H.M., "A" SHROUD,3MM



TE Model / Part #6646346-1  
CONN,SKT,STR,COMPL,FLATPAQ



TE Model / Part #765265-5  
HDR ASSY, W/ 21 SIGNAL LINES



TE Model / Part #766585-1  
WAVE CRIMP CABLE ASSY

## Documents

### Product Drawings

[MBXL R/A RCPT 1P+40S+1P](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_3-6450170-8\\_2.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_3-6450170-8\\_2.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_3-6450170-8\\_2.3d\\_stp.zip](#)

English

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

### Product Specifications

[Application Specification](#)

English