



TE Internal #: 3-6450832-8

Rectangular Power Connectors, Header, Board-to-Board, 31

Position, 2.54 mm / 2.92 mm [.115 in / .1 in] Centerline, Printed

Circuit Board, UL 94V-0

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

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

Number of Positions: **31**

Centerline (Pitch): **2.54 mm, 2.92 mm [ .1 in, .115 in ]**

Sealable: **No**

Features

Product Type Features

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

Configuration Features

Number of Positions	31
PCB Mount Orientation	Right Angle
Number of Power Positions	7
Number of Signal Positions	24
Number of Rows	4

Electrical Characteristics

Operating Voltage	300 VDC
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Contact Features

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Contact Mating Area Plating Material	Gold
Contact Current Rating (Max)	75 A
Contact Retention Within Housing	Without
Contact Type	Blade, Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 µm[3 µin]

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, 2.92 mm [.1 in][.115 in]
Housing Color	Black
Housing Material	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

UL Flammability Rating	UL 94V-0
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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: JAN 2024 (240)



Candidate List Declared Against: JAN 2024 (240)  
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 Part # 6450830-1  
MBXL R/A HDR 2LP + 8S + 2LP

## Customers Also Bought


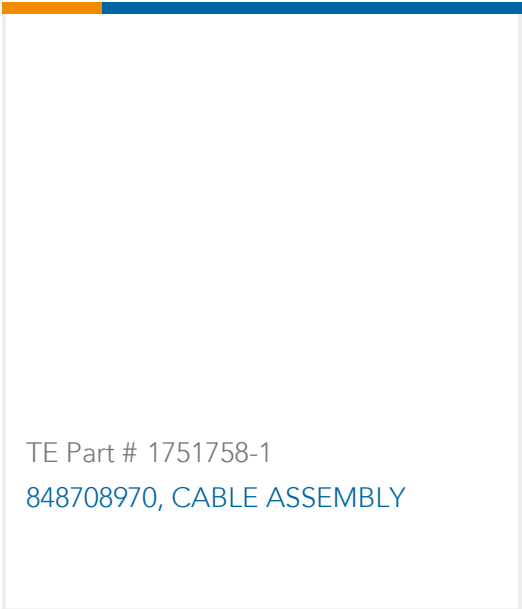
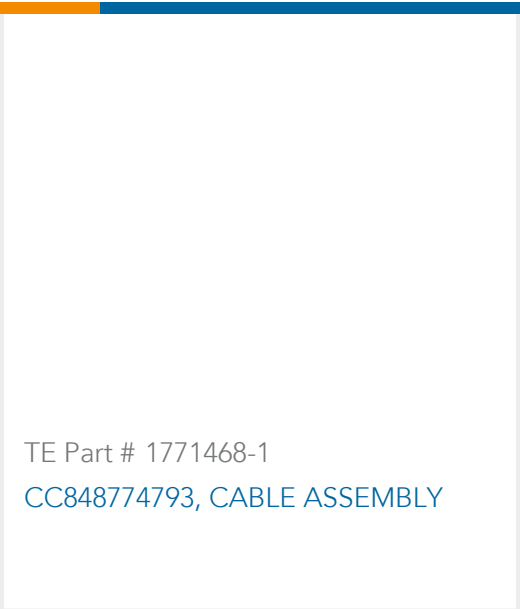
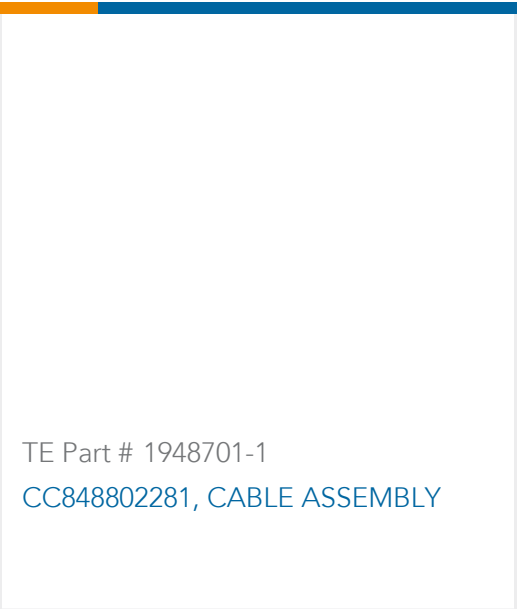

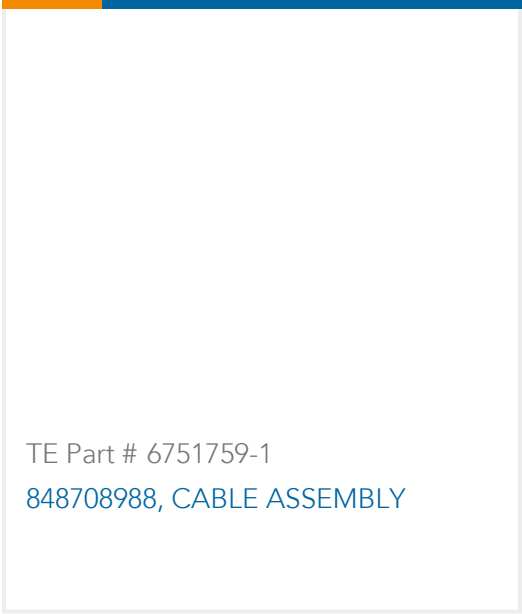
TE Part # 350417-1  
.093 COMM P&S SOK 18-24 PTPBR

TE Part # 1888132-4  
MBXL R/A RCPT 2ACP+10P+16S

TE Part # 3-6450832-6  
MBXLE R/A HEADER 15P+28S

TE Part # 6450874-3  
MBXLE R/A RCT,A/C PASS THRU 3ACP+4P+24S



 <p>TE Part # 2085295-1 CONN,PIN,TOP DRAWER</p>	 <p>TE Part # 1751758-1 848708970, CABLE ASSEMBLY</p>	 <p>TE Part # 1771468-1 CC848774793, CABLE ASSEMBLY</p>	 <p>TE Part # 1948701-1 CC848802281, CABLE ASSEMBLY</p>
 <p>TE Part # 4-6450832-7 MBXLE R/A HEADER 15P+28S</p>	 <p>TE Part # 6751759-1 848708988, CABLE ASSEMBLY</p>		

Documents

Product Drawings

MBXLE R/A HEADER 3ACP + 4P + 24S

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_3-6450832-8\_H1.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-6450832-8\_H1.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_3-6450832-8\_H1.3d\_stp.zip

English

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

Product Specifications

Application Specification

English