

1-6450860-6 ✓ ACTIVE

MULTI-BEAM | MULTI-BEAM XLE

TE Internal #: 1-6450860-6

PCB Mount Receptacle, Vertical, Board-to-Board, 33 Position, 2.54 mm / 5.84 mm / 6.35 mm [.1 in / .23 in / .25 in] Centerline, MULTI-BEAM XLE

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **33**

Number of Rows: **4**

Centerline (Pitch): **2.54 mm, 5.84 mm, 6.35 mm [.1 in, .23 in, .25 in]**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Mixed & Hybrid Header | Yes |
| Connector Shape | Rectangular |
| PCB Connector Type | PCB Mount Receptacle |
| Connector System | Board-to-Board |
| Header Type | Fully Shrouded |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type | Connector Assembly |

Configuration Features

| | |
|---------------------------------|--------|
| Number of Columns | 15 |
| Number of Loaded Positions | 33 |
| Mating & Unmating Configuration | Normal |
| Number of Positions | 33 |
| Number of Rows | 4 |



| | |
|-----------------------|----------|
| PCB Mount Orientation | Vertical |
|-----------------------|----------|

| | |
|---------------------------|---|
| Number of Power Positions | 9 |
|---------------------------|---|

| | |
|----------------------------|----|
| Number of Signal Positions | 24 |
|----------------------------|----|

Electrical Characteristics

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

Body Features

| | |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

| | |
|-------------------------------|--------|
| Contact Underplating Material | Nickel |
|-------------------------------|--------|

| | |
|---|--|
| Contact Underplating Material Thickness | 1.27 – 2.54 μm [50 – 100 μin] |
|---|--|

| | |
|---|---|
| PCB Contact Termination Area Plating Material Thickness | 2.54 – 5.08 μm [100 – 200 μin] |
|---|---|

| | |
|----------------|--------|
| Contact Layout | Matrix |
|----------------|--------|

| | |
|-----------------------|--------------|
| Contact Base Material | Copper Alloy |
|-----------------------|--------------|

| | |
|--------------------------------------|-----------|
| Contact Mating Area Plating Material | Gold (Au) |
|--------------------------------------|-----------|

| | |
|--------------|------------|
| Contact Type | Receptacle |
|--------------|------------|

| | |
|------------------------------|------|
| Contact Current Rating (Max) | 42 A |
|------------------------------|------|

| | |
|---|-----|
| PCB Contact Termination Area Plating Material | Tin |
|---|-----|

| | |
|--|--|
| Contact Mating Area Plating Material Thickness | .076 μm [3 μin] |
|--|--|

Termination Features

| | |
|--------------------------------|------------------|
| Termination Post & Tail Length | 3.43 mm[.135 in] |
|--------------------------------|------------------|

| | |
|---------------------------|--------------------------|
| Termination Method to PCB | Through Hole - Press-Fit |
|---------------------------|--------------------------|

Mechanical Attachment

| | |
|------------------|---------|
| Mating Retention | Without |
|------------------|---------|

| | |
|-----------------------|--------------|
| Mating Alignment Type | Polarization |
|-----------------------|--------------|

| | |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

| | |
|------------------|------|
| Mating Alignment | With |
|------------------|------|

| | |
|---------------------|---------|
| PCB Mount Alignment | Without |
|---------------------|---------|

| | |
|---------------------|---------|
| PCB Mount Retention | Without |
|---------------------|---------|

Housing Features

| | |
|--------------------|--|
| Centerline (Pitch) | 2.54 mm, 5.84 mm, 6.35 mm[.1 in][.23 in][.25 in] |
|--------------------|--|

| | |
|------------------|---|
| Housing Material | High Temperature Thermoplastic Glass-Filled |
|------------------|---|

Dimensions

| | |
|-----------------------------|-------------------|
| Connector Width | 11.94 mm[.47 in] |
| Connector Height | 12.7 mm[.5 in] |
| Connector Length | 64.9 mm[2.555 in] |
| Row-to-Row Spacing | 2.54 mm[.1 in] |
| PCB Thickness (Recommended) | 1.35 mm[.053 in] |

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature (Max) | 125 °C[257 °F] |
| Operating Temperature Range | -40 – 125 °C[-40 – 257 °F] |

Operation/Application

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

Industry Standards

| | |
|------------------------|---------------------------------------|
| Glow Wire Rating | High Temperature Part - Not Glow Wire |
| UL Flammability Rating | UL 94V-0 |

Packaging Features

| | |
|--------------------|------|
| Packaging Quantity | 33 |
| Packaging Method | Tray |

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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC |
| Halogen Content | Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| Solder Process Capability | Wave solder capable to 265°C |

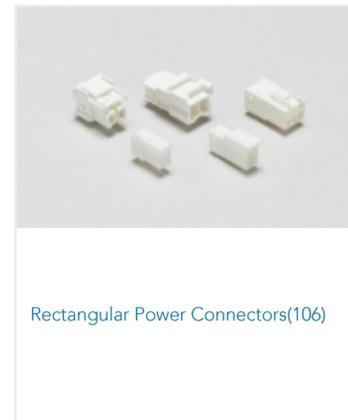
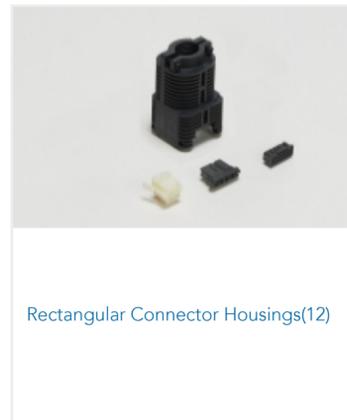
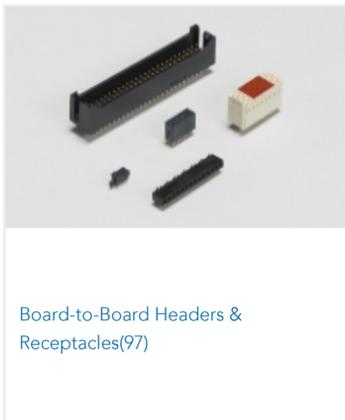
Product Compliance Disclaimer

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 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>

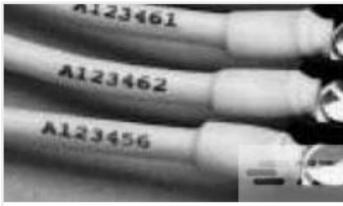
Compatible Parts



Also in the Series | MULTI-BEAM XLE



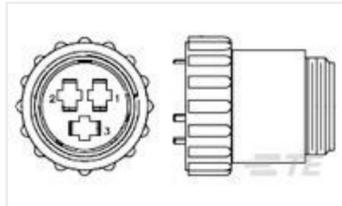
Customers Also Bought



TE Part #5053192058
RNF-100-1/2-0-STK



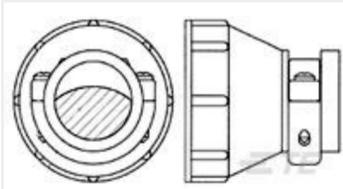
TE Part #ADP-SMAM-SMBM-G
SMA Plug to SMB Plug



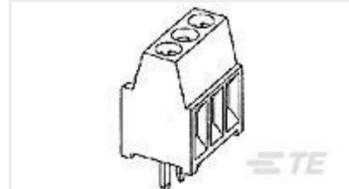
TE Part #206037-2
CPC PLUG ASSEMBLY SIZE 17-3



TE Part #208472-1
CMC PLUG ASSEMBLY, SZ 28



TE Part #208945-8
SZ 28 UNASSM KIT, CMC



TE Part #1-282834-2
TERMI-BLOK PCB MOUNT, 90 12P.



TE Part #3-794632-2
02P MICRO MNL ASSY, VRT, HDR, LF



TE Part #1-5103308-0
A/L LOW PRO HDR 50P VERT BLACK

Documents

Product Drawings

[MBXLE VERT RCPT 6LP + 24S + 3P](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_1-6450860-6_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-6450860-6_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-6450860-6_D.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English