# 2204188-4 ✔ ACTIVE

MULTI-BEAM | MULTI-BEAM XLE

TE Internal #: 2204188-4

PCB Mount Header, Right Angle, Board-to-Board, 48 Position, 2.54 mm / 6.35 mm [.1 in / .25 in] Centerline, Fully Shrouded, Gold (Au), MULTI-BEAM XLE

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **48**

Number of Rows: **4**

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

## Features

### Product Type Features

| | |
|---|---|
| Mixed & Hybrid Header | Yes |
| Connector Shape | Rectangular |
| PCB Connector Type | PCB Mount Header |
| 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 | 24 |
| Number of Loaded Positions | 48 |
| Number of Positions | 48 |
| Number of Rows | 4 |
| PCB Mount Orientation | Right Angle |
| Number of Power Positions | 16 |
| Number of Signal Positions | 32 |

### 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 µm[50 µin] |
| Contact Size | .64mm |
| Mating Square Post Dimension | .64 mm[.025 in] |
| Contact Shape & Form | Square |
| 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 | Blade, Tab |
| Contact Current Rating (Max) | 42 A |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin] |

## Termination Features

| | |
|---|---|
| Termination Post & Tail Length | 3.05 mm[.12 in] |
| Termination Method to PCB | Through Hole - Press-Fit |

## Mechanical Attachment

| | |
|---|---|
| Mating Retention | Without |
| PCB Mount Retention Type | Hold-Down |
| PCB Mount Alignment Type | Hold-Down |
| Mating Alignment Type | Polarization |
| Connector Mounting Type | Board Mount |
| Mating Alignment | With |
| PCB Mount Alignment | With |
| PCB Mount Retention | With |

## Housing Features

| | |
|---|---|
| Centerline (Pitch) | 2.54 mm, 6.35 mm[.1 in][.25 in] |
| Housing Material | High Temperature Thermoplastic Glass-Filled |

## Dimensions

| | |
|---|---|
| Connector Width | 23.62 mm[.93 in] |
| Connector Height | 14.58 mm[.574 in] |
| Connector Length | 138.43 mm[5.45 in] |
| Row-to-Row Spacing | 2.54 mm[.1 in] |
| PCB Thickness (Recommended) | 1.35 mm[.053 in] |

### Usage Conditions

| | |
|---|---|
| Operating Temperature (Max) | 105 °C[221 °F] |
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °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 | 10 |
| Packaging Method | Tray |

## Product Compliance

For compliance documentation, visit the product page on TE.com>

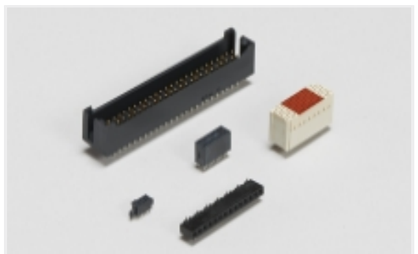
| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Not Yet Reviewed |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUN 2018 (191)<br>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

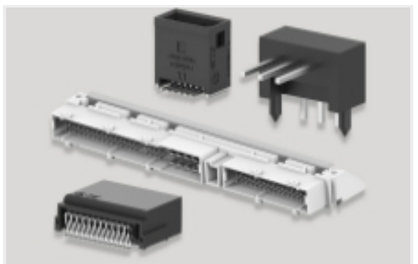
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

## Also in the Series | MULTI-BEAM XLE



Board-to-Board Headers & Receptacles(97)



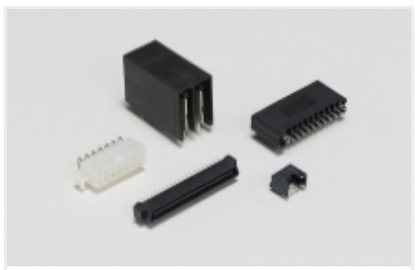
PCB Headers & Receptacles(97)



Rectangular Connector Housings(12)



Rectangular Power Connectors(106)



Standard Rectangular Connectors(12)

## Customers Also Bought



TE Part #60249-1
FF 250 REC 16-12AWG BR



TE Part #7-1393302-5
V23134B0052C642-EV-CBOX



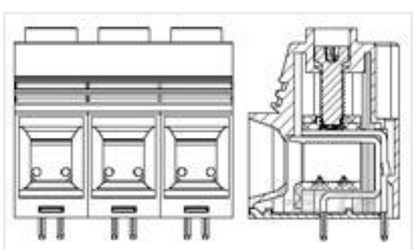

TE Part #2-1622824-0
RL73H 2B R33 1% 5K RL



TE Part #3-1630027-0
HSC300 3R2 5%



TE Part #1838893-2
M12 Mtl MALE PNL CONN. Sldr Rear (Hex)



TE Part #1986242-2
Power Connector, 15.0mm, Green, 2 posn



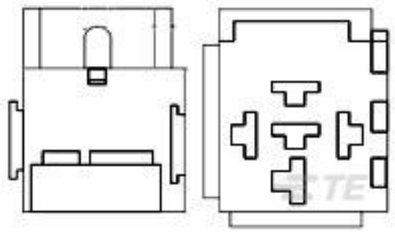

TE Part #1-2176070-2
3521 30R 1% 2W




TE Part #5-2176345-2
CRGCQ 1210 180K 1%



TE Part #5747844-3
09 MSFL RCPT RA 318 (IN,FM,BL)



TE Part #4-1419106-0
VCF4-1002=CONNECTOR,HOUSING-

## Documents

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2204188-4_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2204188-4_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2204188-4_1.3d_stp.zip

English

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### Product Specifications

Application Specification

English