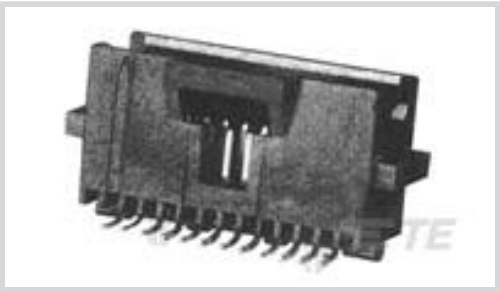




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**  
PCB Mount Orientation: **Vertical**  
Connector System: **Board-to-Board, Wire-to-Board**  
Number of Positions: **10**  
Number of Rows: **2**

Features

Product Type Features

|                                   |                               |
|-----------------------------------|-------------------------------|
| PCB Connector Type                | PCB Mount Header              |
| Connector System                  | Board-to-Board, Wire-to-Board |
| Header Type                       | Fully Shrouded                |
| Sealable                          | No                            |
| Connector & Contact Terminates To | Printed Circuit Board         |
| Connector Product Type            | Connector Assembly            |

Configuration Features

|                                  |              |
|----------------------------------|--------------|
| Connector Contact Load Condition | Fully Loaded |
| PCB Mount Orientation            | Vertical     |
| Number of Positions              | 10           |
| Number of Rows                   | 2            |

Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 30 VAC |
|-------------------|--------|

Body Features

|                       |          |
|-----------------------|----------|
| Connector Profile     | Standard |
| Primary Product Color | Black    |

Contact Features

|                                                      |       |
|------------------------------------------------------|-------|
| PCB Contact Termination Area Plating Material Finish | Matte |
|------------------------------------------------------|-------|



|                                               |                 |
|-----------------------------------------------|-----------------|
|                                               | 150 – 250 µin   |
| Contact Base Material                         | Phosphor Bronze |
| PCB Contact Termination Area Plating Material | Tin-Lead        |
| Contact Mating Area Plating Material Finish   | Bright          |
| Contact Mating Area Plating Material          | Gold (Au)       |
| Contact Type                                  | Pin             |
| Contact Current Rating (Max)                  | 1 A             |

Termination Features

|                                |                |
|--------------------------------|----------------|
| Termination Post & Tail Length | 2.54 mm[.1 in] |
| Termination Method to PCB      | Surface Mount  |

Mechanical Attachment

|                          |                |
|--------------------------|----------------|
| Panel Mount Feature      | Without        |
| Mating Retention         | With           |
| PCB Mount Retention Type | Hold-Down Post |
| Mating Alignment Type    | Latched        |
| PCB Mount Retention      | With           |
| PCB Mount Alignment      | With           |
| Connector Mounting Type  | Board Mount    |
| Mating Alignment         | With           |

Housing Features

|                    |                 |
|--------------------|-----------------|
| Housing Material   | Thermoplastic   |
| Centerline (Pitch) | 1.27 mm[.05 in] |

Dimensions

|                             |                |
|-----------------------------|----------------|
| Row-to-Row Spacing          | 2.54 mm[.1 in] |
| PCB Thickness (Recommended) | 1.57 mm        |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 105 °C[-85 – 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                        |                |
|------------------------|----------------|
| Solder Process Feature | Board Standoff |
| Circuit Application    | Power & Signal |

Industry Standards

|                                             |                       |
|---------------------------------------------|-----------------------|
| Compatible With Approved Standards Products | CSA LR7189, UL E28476 |
|---------------------------------------------|-----------------------|



UL Flammability Rating

UL 94V-0

Packaging Features

|                    |           |
|--------------------|-----------|
| Packaging Quantity | 41        |
| Packaging Method   | Box, Tube |

Product Compliance

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

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Not Compliant                                                                                                                                                                                                                                                                                                                                                                                                           |
| EU ELV Directive 2000/53/EC                   | Compliant with Exemptions                                                                                                                                                                                                                                                                                                                                                                                               |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                                                                                                                                                                                                                                                                                                                                                                                    |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<br>SVHC > Threshold:<br>Pb (13% in 4690971273)<br><b>Article Safe Usage Statements:</b><br>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                                                                                                                                                                                                                                                                                                                     |
| Solder Process Capability                     | Reflow solder capable to 260°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 # 147377-1  
10 SYS50 SMT HDR DR SHD W/O HD



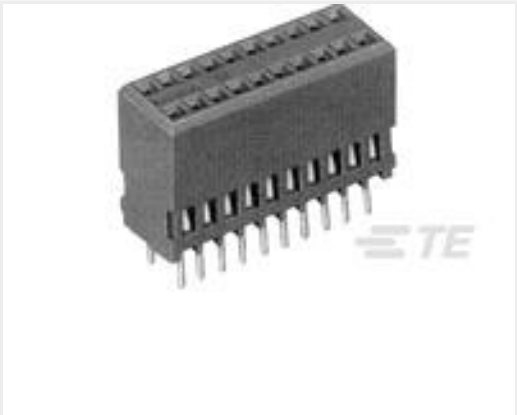
TE Part # CAT-F439-R2435127  
FFC Receptacle Housing: 1.27mm



TE Part # 104550-1  
10 SYS50 SURFMNT DRST RCPT

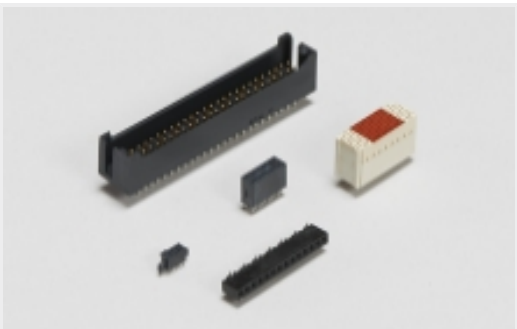


TE Part # 104744-3  
10 SYSTEM 50 RCPT ASSY DRST

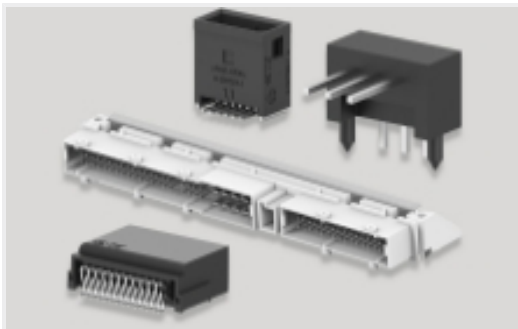


TE Part # 104078-3  
10 SYSTEM 50 RCPT ASSY DRST

Also in the Series | **AMPMODU System 50**



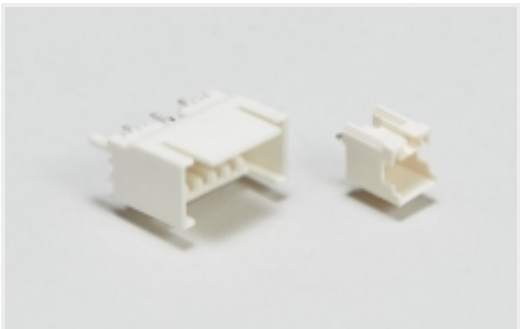
Board-to-Board Headers & Receptacles(685)



PCB Headers & Receptacles(685)



Rectangular Power Connectors(47)

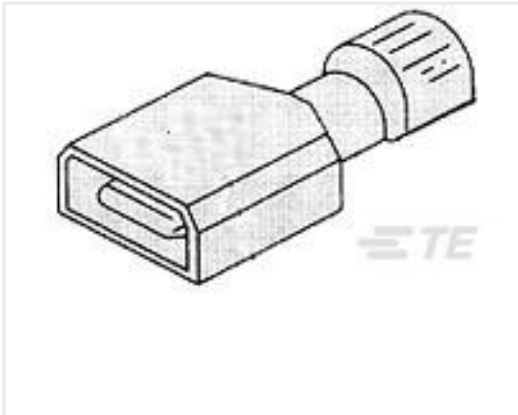


Wire-to-Board Headers & Receptacles (47)

Customers Also Bought



TE Part #770250-1  
UMNL II PIN PTPBR LP 20-14



TE Part #3-520106-2  
ULTRA-FAST 250 ASY TAB 16-14 AWG TPBR



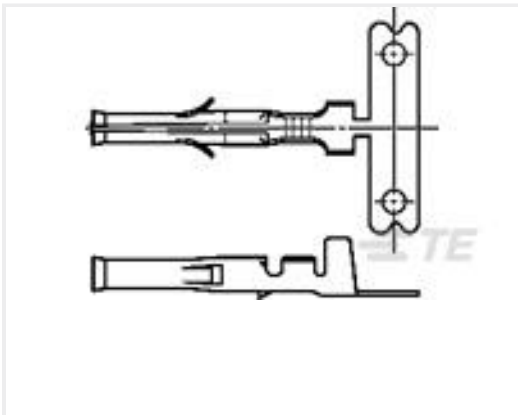
TE Part #1-480701-9  
03P UMNL CAP HSG BLK



TE Part #51864-5  
TERMINAL,PIDG R 16-14 8



TE Part #160163-2  
RING TONGUE WITH IS 3.1-5.3 MM2 TPBR



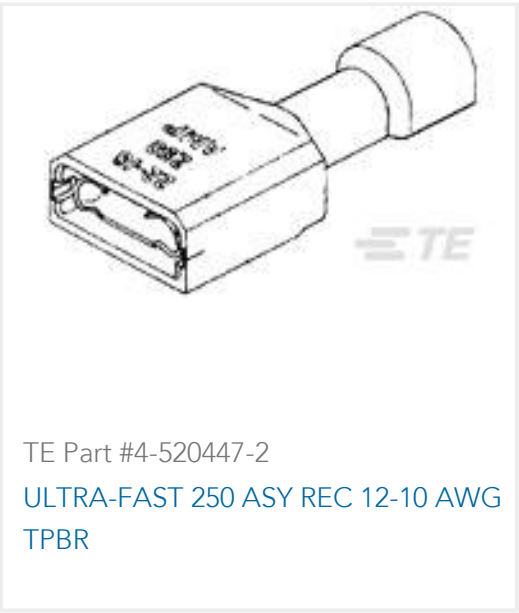
TE Part #350628-1  
.062 COMM P&S SOK 18-24 PTPBR



TE Part #1-480700-9  
03P UMNL PLUG HSG BLK



TE Part #CAT-104MTA-NTPNR  
MTA Receptacle: Nylon, Tin Plated, 2.54 mm



Documents

Product Drawings

10 SYS50 SURFMNT HDR DRST SHRD

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_104549-1\_Y.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_104549-1\_Y.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_104549-1\_Y.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