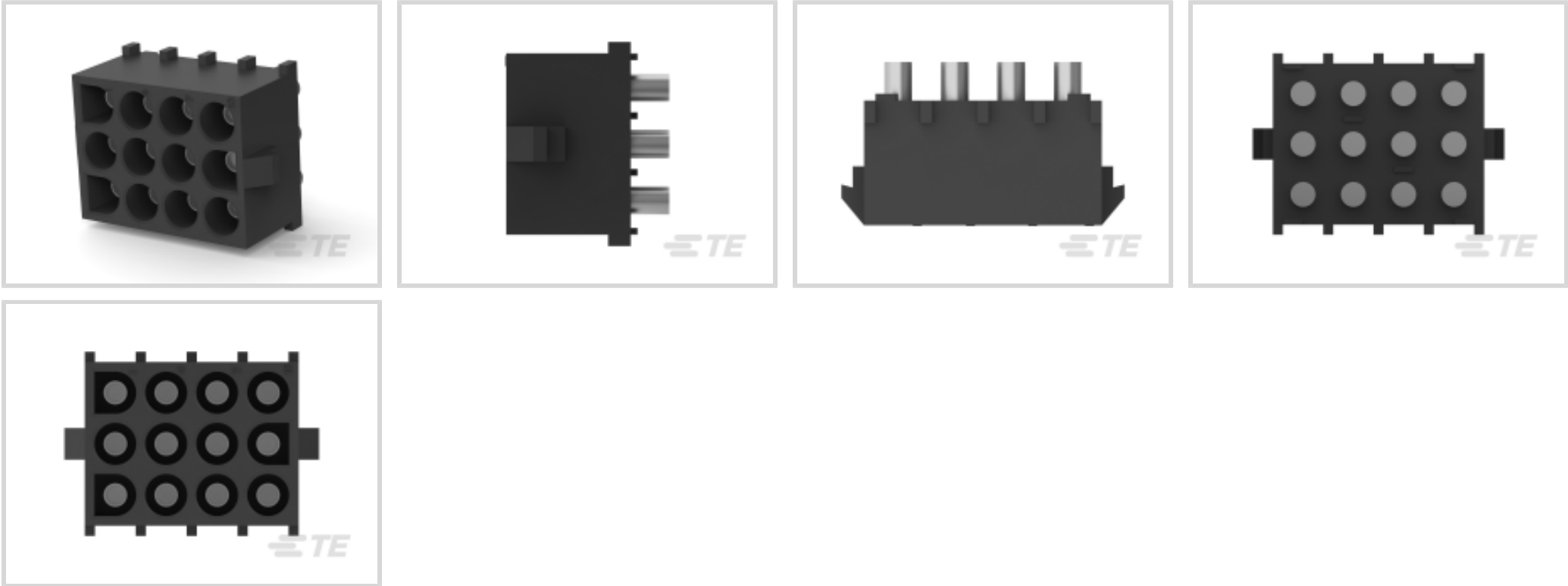




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **12**

Number of Rows: **3**

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Wire-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	4
Number of Loaded Positions	12
Number of Power Positions	12
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	12



Number of Rows	3
Electrical Characteristics	
Operating Voltage	600 VAC
Body Features	
Primary Product Color	Black
Contact Features	
Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 – 1.79 µm[50 – 70 µin]
Contact Size	2.95mm
Contact Mating Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]
PCB Contact Termination Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]
Contact Shape & Form	Round
Contact Layout	Matrix
Contact Base Material	Phosphor Bronze
PCB Contact Termination Area Plating Material	Pre-Tin
Contact Mating Area Plating Material	Pre-Tin
Contact Type	Socket
Contact Current Rating (Max)	12 A
Termination Features	
Termination Post & Tail Diameter	1.57 mm[.062 in]
Termination Post & Tail Length	3.56 mm[.14 in]
Termination Method to PCB	Through Hole - Solder
Mechanical Attachment	
Panel Mount Feature	Without
Mating Retention Type	Locking Tab
Mating Retention	With
Mating Alignment Type	Polarization
PCB Mount Alignment Type	Standard Polarized Tail
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With



Housing Features

Mating Entry Location	Top
Housing Material	Nylon
Centerline (Pitch)	6.35 mm[.25 in]

Dimensions

Row-to-Row Spacing	6.35 mm[.25 in]
Connector Width	20.32 mm[.8 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Connector Height	13.97 mm[.55 in]
Connector Length	26.67 mm[1.05 in]
Profile Height from PCB	14.73 mm[.58 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]

Operation/Application

Circuit Application	Power
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Industry Standards

Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	94
Packaging Method	Carton

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 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per



homogenous material. Also BFR/CFR/PVC Free

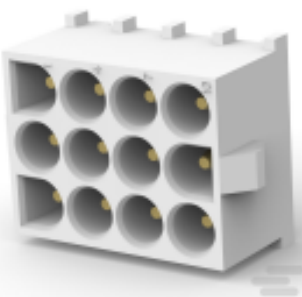
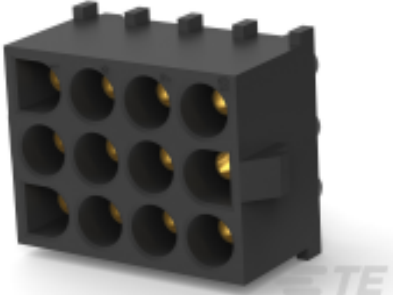
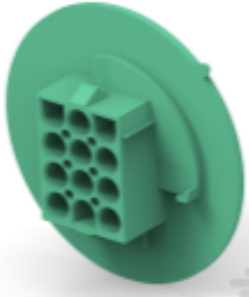
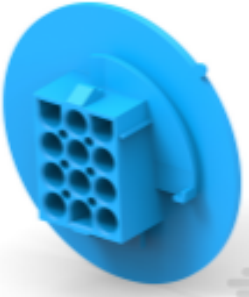
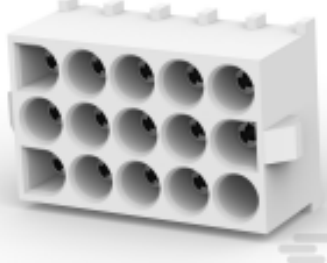
Solder Process Capability

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

 TE Part # 350433-4 12P UMNL PIN HDR ASSY NATL LF	 TE Part # 2178620-1 UMNL 12 WAY CAP HOUSING	 TE Part # 1586854-1 12P UMNL CAP HSG, GW	 TE Part # 1586682-3 09P UMNL HDR ASSY PC 94VO SL
 TE Part # 350713-1 12P UMNL PIN HDR ASSY 94VO	 TE Part # 350713-4 12P UMNL PIN HDR ASSY 94VO LF	 TE Part # 643428-3 12P UMNL HDR ASSY POL 94VO	 TE Part # 641973-1 12P UMNL PIN HDR ASSY V2 NATL
 TE Part # 1-794762-5 12P UMNL CAP HSG,PAN MNT, GREEN	 TE Part # 1-794762-3 12P UMNL CAP HSG,PAN MNT, ORANGE	 TE Part # 1-794762-6 12P UMNL CAP HSG,PAN MNT,BLUE	 TE Part # 1-1586683-5 15P UMNL HDR ASSY PC 94VO SL



TE Part # 1586170-1
15P UMNL PIN HDR 94VO NDH



TE Part # 1-641974-1
12P UMNL PIN HDR ASSY BLK



TE Part # 1-1586683-0
15P UMNL HDR ASSY PC 94VO SL



TE Part # 1-480709-2
12P UMNL CAP HSG RED



TE Part # 1586683-9
15P UMNL HDR ASSY PC 94VO SL



TE Part # 1-480709-0
12P UMNL CAP HSG NATL



TE Part # 1586174-1
06P UMNL PIN HDR 94VO NDH



TE Part # 350587-1
12P UMNL PIN HDR ASSY V2 NATL

Also in the Series | Universal MATE-N-LOK



Circular Power Connectors(2)



Connector Contacts(208)



Connector Hardware(12)



Power Contacts(208)



Rectangular Power Connectors(651)



Standard Circular Connectors(1)

Customers Also Bought



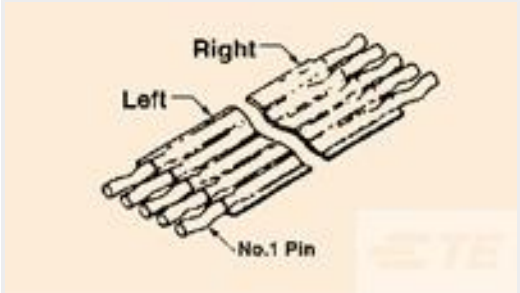
TE Part #63945-1
BOBBIN TERMINAL TAB TPCUBR



TE Part #1744188-1
HSG ASY,ULTRASON WELD, 15/30/45 WINGS



TE Part #2311844-2
PCB TERMINAL, LOOSE PIECE



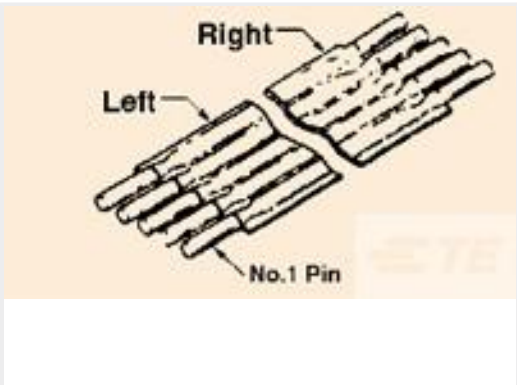
TE Part #6474561-1
FSN-23.25Z-16



TE Part #60713-1
FASTON 250 REC 18-14 AWG BR



TE Part #2825871-1
JUMPER CONNECTOR



TE Part #2-1474654-8
FSN-21.5A-5



TE Part #62804-2
BOBBIN TERMINAL 22-18 AWG
TPCUBR



TE Part #2238181-1
PCB TERMINAL



TE Part #8-456134-2
CRIMPER, INSULATION "F" (.140")

Documents

Product Drawings

12P UMNL HDR ASSY POL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_643428-2_H.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_643428-2_H.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_643428-2_H.3d_stp.zip

English

Customer View Model

ENG_CVM_643428-2_H1.3d_igs.zip

English

Customer View Model

ENG_CVM_643428-2_H1.3d_stp.zip

English

Customer View Model

ENG_CVM_643428-2_H1.2d_dxf.zip

English

3D PDF

English



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Datasheets & Catalog Pages
SOFT_SHELL_PIN_SOCKET_CONNECTORS_STANDARD_DENSITY
English

Product Specifications
Application Specification
English

Instruction Sheets
Instruction Sheet (U.S.)
English

Agency Approvals
UL
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