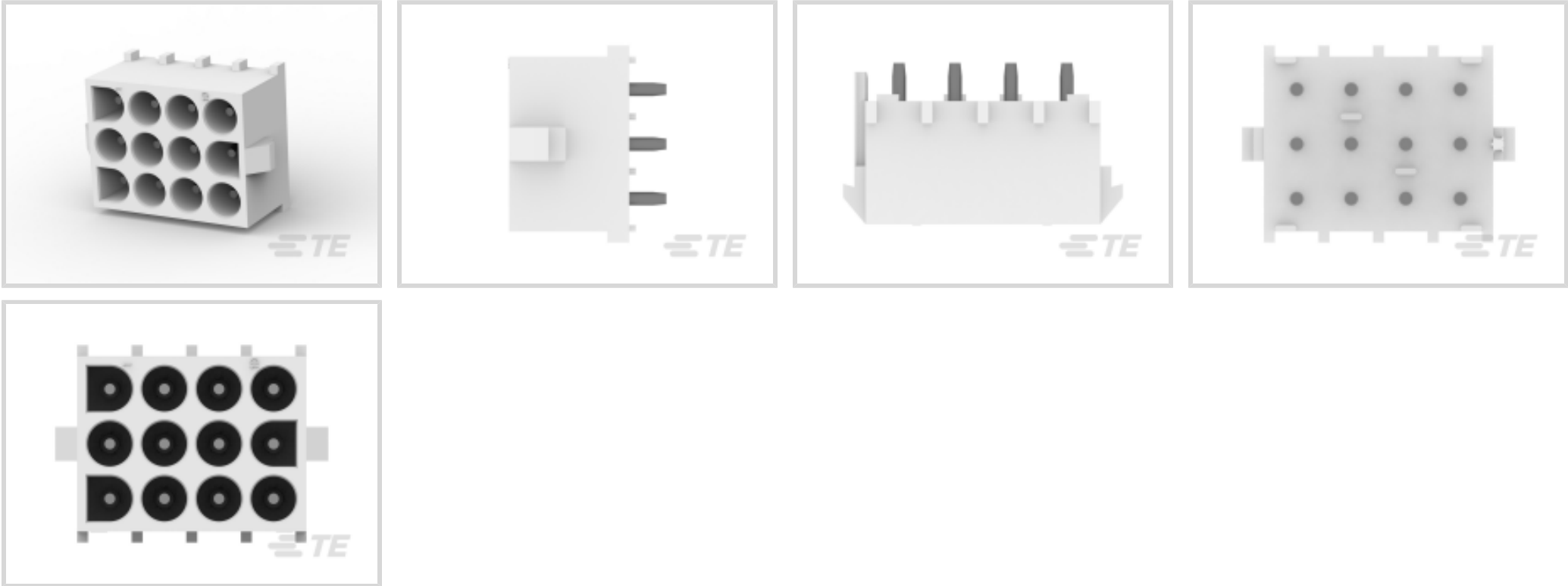




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **12**

Number of Rows: **3**

Features

Electrical Characteristics

Operating Voltage	600 VAC
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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]

Packaging Features

Packaging Quantity	94
Packaging Method	Carton

Industry Standards

Compatible With Agency/Standards Products	UL, VDE, CSA
UL Rating	Recognized



Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-2

Usage Conditions

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

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

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

Contact Features

Contact Underplating Material	Nickel
Mating Pin Diameter	2.2 mm[.087 in]
Contact Underplating Material Thickness	1.27 – 1.79 µm[50 – 70 µin]
Contact Size	2.2mm
Contact Mating Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]
Contact Shape & Form	Round
PCB Contact Termination Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]
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	Pin



Contact Current Rating (Max)	12 A
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Housing Features

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

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

Product Type Features

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

Body Features

Primary Product Color	Natural
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Operation/Application

Circuit Application	Power
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Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

Product Compliance

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

EU RoHS Directive 2011/65/EU	Compliant
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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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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 # 794727-1
12P UMNL CAP HSG NATL, BLACK



TE Part # 643255-1
12P UMNL ASSY MOD HSG VO



TE Part # 794279-1
12P UMNL INTERFACE SEAL



TE Part # 926681-3
12P UNIV. CAP HSG.



TE Part # 643428-2
12P UMNL HDR ASSY POL



TE Part # 350812-1
STR/REL CLAMP UMNL



TE Part # 926681-1
UNIV.M-N-L.CAP HSG.



TE Part # 2178621-1
UMNL 12 WAY CAP HOUSING



TE Part # 1-350590-0
STR/REL CLAMP NATL

TE Part # 1863006-1
12P UMNL CAP HSG

TE Part # 2178620-1
UMNL 12 WAY CAP HOUSING

TE Part # 643428-3
12P UMNL HDR ASSY POL 94VO

TE Part # 1-480708-0
12P UMNL PLUG HSG NATL

TE Part # 1586854-1
12P UMNL CAP HSG, GW

TE Part # 794280-1
12P UMNL WIRE SEAL

TE Part # 1-640723-0
12P UMNL STR/REL & INSRT NATL

TE Part # 640717-1
12P UMNL STR/REL

Also in the Series | Universal MATE-N-LOK

Connector Caps & Covers(34)

Connector Contacts(209)

Connector Seals & Cavity Plugs(27)

Connector Strain Relief(7)

Insertion & Extraction Tools(4)

PCB Headers & Receptacles(284)

Power Contacts(209)

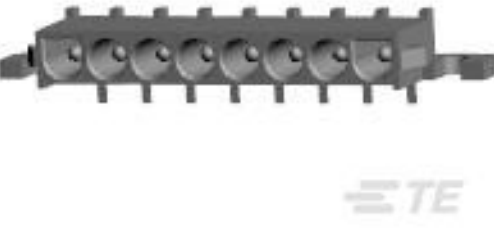
Wire-to-Board Headers & Receptacles (284)

Customers Also Bought





TE Part #2-1419129-5
[OJ-SS-112LMH,000](#)



TE Part #640584-1
[08P UMNL HDR ASSY R/A 94VO](#)



TE Part #641969-1
[06P UMNL PIN HDR ASSY V2 NATL](#)



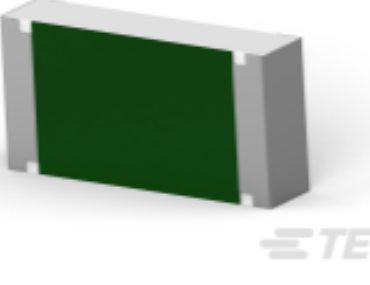
TE Part #641975-1
[15P UMNL PIN HDR ASSY POL NATL](#)



TE Part #641970-1
[06P UMNL PIN HDR ASSY 94VO](#)



TE Part #643405-1
[05P UMNL PIN HDR ASSY POL NATL](#)



TE Part #2-2176399-5
[3502 27K 5%](#)



TE Part #1-644751-1
[11P MTA156 HDR ASSY R/A](#)



TE Part #643464-9
[07P MTA156 HDR ASSY W/O#3&6](#)

TE Part #6364999-2
[CONN ASSY 31 DUAL POS](#)

Documents

Product Drawings

[12P UMNL PIN HDR ASSY V2 NATL](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_641973-1_L.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_641973-1_L.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_641973-1_L.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_641973-1_K.3d_igs.zip](#)

English



Customer View Model

[ENG_CVM_641973-1_K.3d_stp.zip](#)

English

Customer View Model

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English

3D PDF

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Product Specifications

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Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

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Agency Approvals

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