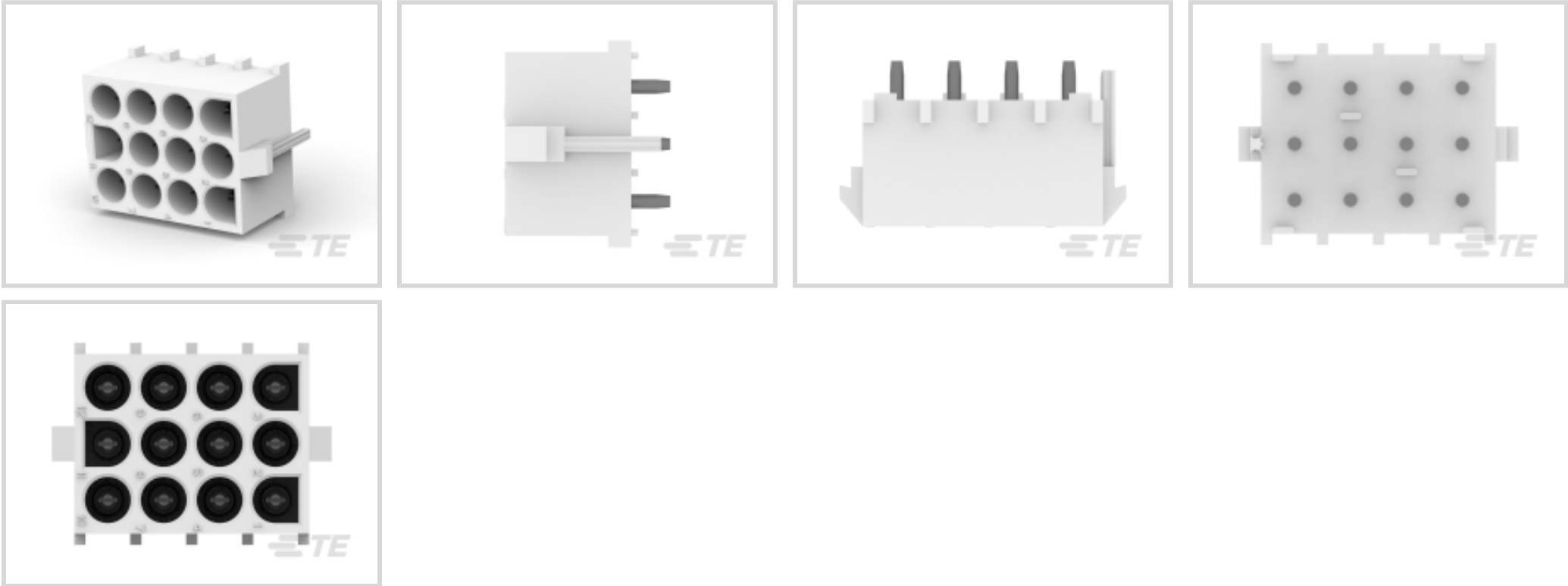




Connectors > PCB Connectors > PCB Headers & Receptacles



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
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Electrical Characteristics

Operating Voltage	600 VAC
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Body Features

Primary Product Color	White
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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]
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	Pin
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
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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

Compatible With Agency/Standards Products	CSA, UL, VDE
UL Rating	Recognized
Compatible With Approved Standards Products	UL E28476
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 # 794727-1 12P UMNLCAP HSG NATL, BLACK	 TE Part # 770022-1 12P UMNLCAP IN-LNE PLUG HSG KIT	 TE Part # 643255-1 12P UMNLCAP ASSY MOD HSG VO	 TE Part # 641968-3 04P UMNLCAP PIN HDR ASSY POL 94VO
 TE Part # 2178621-1 UMNLCAP 12 WAY CAP HOUSING	 TE Part # 1-350590-0 STR/REL CLAMP NATL	 TE Part # 1863006-1 12P UMNLCAP HSG	 TE Part # 350812-1 STR/REL CLAMP UMNLCAP



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



TE Part # 794279-1
12P UMNL INTERFACE SEAL



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



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



TE Part # 2178620-1
UMNL 12 WAY CAP HOUSING



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



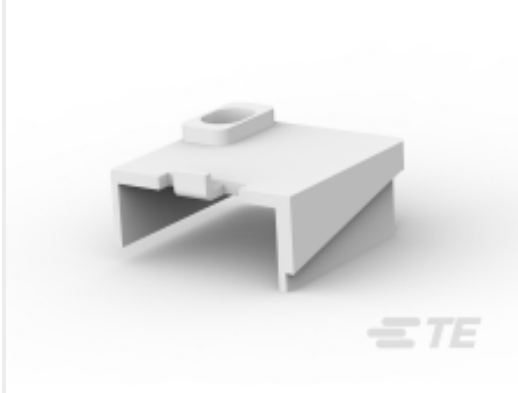
TE Part # 1586854-1
12P UMNL CAP HSG, GW



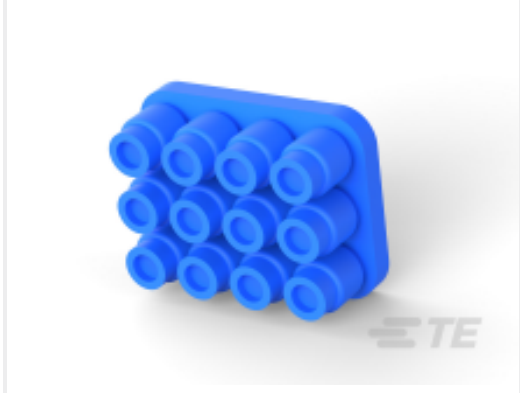
TE Part # 350735-1
12P UMNL PLUG HSG



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



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



TE Part # 794280-1
12P UMNL WIRE SEAL

Also in the Series | Universal MATE-N-LOK



Circular Power Connectors(2)



Connector Caps & Covers(34)



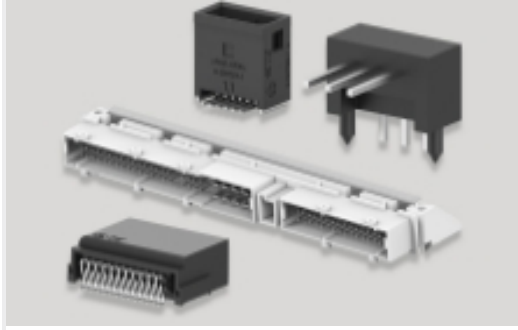
Connector Seals & Cavity Plugs(27)



Connector Strain Relief(7)



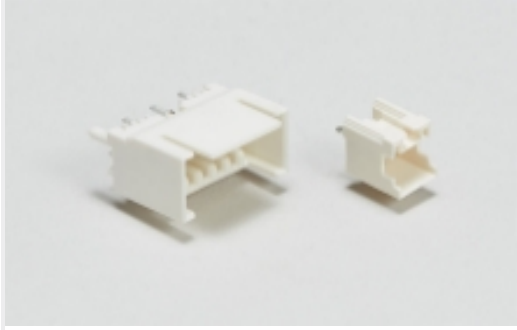
Insertion & Extraction Tools(4)



PCB Headers & Receptacles(286)



Rectangular Power Connectors(651)



Wire-to-Board Headers & Receptacles (286)

Customers Also Bought



TE Part #2176053-5
RLP73M 2A R075 1% 1K RL

TE Part #350212-1
08C CMNL HDR ASSY PC NATL

TE Part #794920-1
05P UMNL SOCKER HDR ASSY POL

TE Part #643425-1
09P UMNL HDR ASSY POL

TE Part #1-770967-0
03P MINI UMNL R/A HDR ASSY SN

TE Part #42100-1
FF 250 REC 18-14AWG BR

TE Part #42770-2
250 FASTON FLAG TAB 18-14 AWG TPBR

TE Part #2286377-1
250 FASTON,FLAG,REC.,22-18 AWG, NPST

TE Part #1977145-4
Slide Switch 4PDT actuator under,SMT T&R

TE Part #1977144-4
Slide Switch DPDT dual actuator, SMT T&R

Documents

Product Drawings

12P UMNL PIN HDR ASSY 94VO

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_641974-1_S.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_641974-1_S.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_641974-1_S.3d_stp.zip

English

Customer View Model

ENG_CVM_641974-1_P.3d_igs.zip

English



Customer View Model

[ENG_CVM_641974-1_P.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_641974-1_P.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](#)

English