

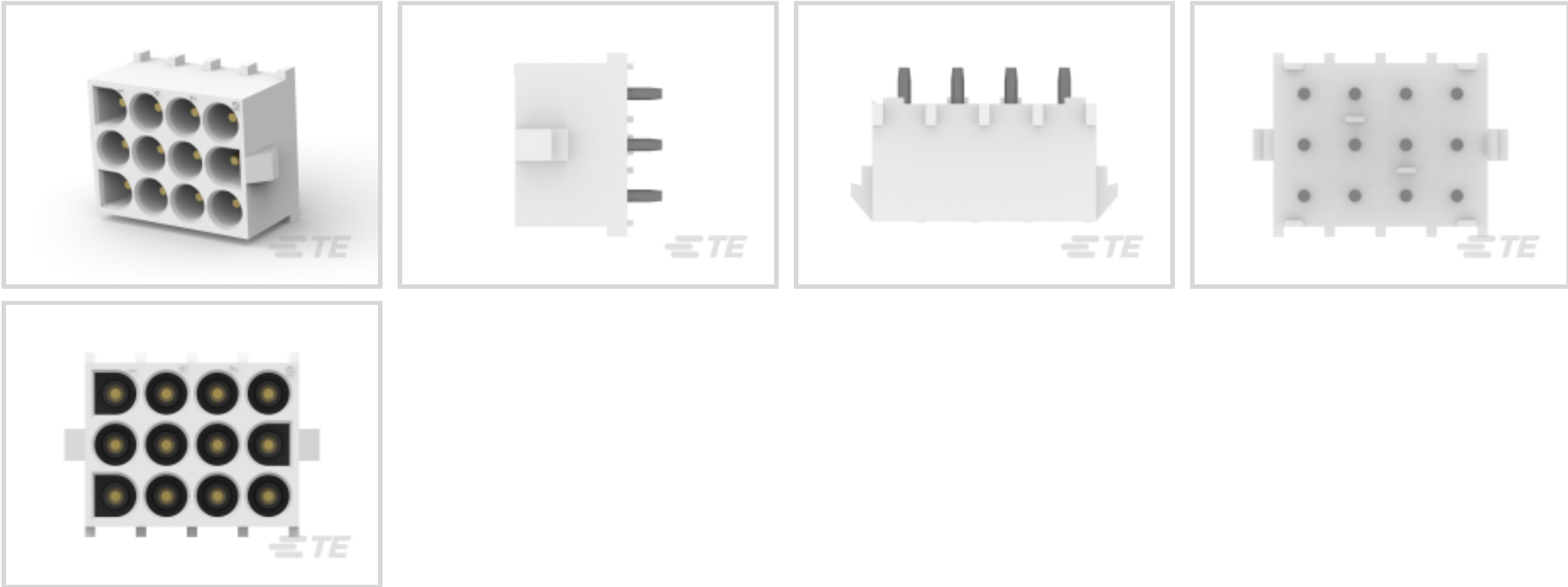


MATE-N-LOK | Universal MATE-N-LOK

TE Internal #: 350433-4
PCB Mount Header, Vertical, Wire-to-Board, 12 Position, 6.35 mm [.25 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Universal MATE-N-LOK

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**
Connector System: **Wire-to-Board**
Number of Positions: **12**
Number of Rows: **3**
Centerline (Pitch): **6.35 mm [.25 in]**

Features

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

Configuration Features

Number of Power Positions	12
Number of Columns	4
Number of Loaded Positions	12
Connector Contact Load Condition	Fully Loaded
Number of Positions	12
Number of Rows	3



PCB Mount Orientation	Vertical
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Electrical Characteristics

Operating Voltage	600 VAC
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Body Features

Primary Product Color	Natural
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Contact Features

Contact Size	2.2mm
PCB Contact Termination Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]
Contact Layout	Matrix
Mating Pin Diameter	2.2 mm[.087 in]
Contact Underplating Material Thickness	1.27 – 1.79 µm[50 – 70 µin]
Contact Mating Area Plating Material Thickness	.76 – .91 µm[30 – 36 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape & Form	Round
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
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

Mating Alignment Type	Polarization
Mating Retention	With
Panel Mount Feature	Without
Mating Retention Type	Locking Tab
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without



PCB Mount Retention

Without

Housing Features

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

Dimensions

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

UL Rating	Recognized
Glow Wire Rating	Standard Part - Not Glow Wire
Compatible With Agency/Standards Products	CSA, UL, VDE
Compatible With Approved Standards Products	UL E28476
UL Flammability Rating	UL 94V-2

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: 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 # 350812-1 STR/REL CLAMP UMNL	 TE Part # 794279-1 12P UMNL INTERFACE SEAL	 TE Part # 926681-3 12P UNIV.CAP HSG.	 TE Part # 640717-1 12P UMNL STR/REL
 TE Part # 1-640723-0 12P UMNL STR/REL & INSRT NATL	 TE Part # 794280-1 12P UMNL WIRE SEAL	 TE Part # 1-350590-0 STR/REL CLAMP NATL	 TE Part # 926681-1 UNIV.M-N-L.CAP HSG.



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

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

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

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

TE Part # 1863006-1
12P UMNL CAP HSG

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

TE Part # 794727-1
12P UMNL CAP HSG NATL, BLACK

TE Part # 2178620-1
UMNL 12 WAY CAP HOUSING

TE Part # 2178621-1
UMNL 12 WAY CAP HOUSING

Also in the Series | Universal MATE-N-LOK

Circular Power Connectors(2)

Connector Caps & Covers(34)

Connector Contacts(209)

Connector Hardware(12)

Connector Seals & Cavity Plugs(27)

Connector Strain Relief(7)

Insertion & Extraction Tools(4)

PCB Headers & Receptacles(285)



Rectangular Connector Housings(1)



Rectangular Power Connectors(370)

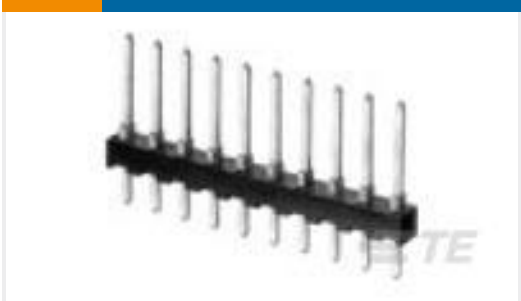


Standard Circular Connectors(1)

Customers Also Bought



TE Part #5102160-9
A/L UNIV HDR 40P RA



TE Part #87224-4
04 MODII HDR SRST UNSHRD .100



TE Part #640389-9
09P MTA156 HDR ASSY SQ R/A F/L



TE Part #643232-1
05P UMNL HDR ASSY R/A 94VO



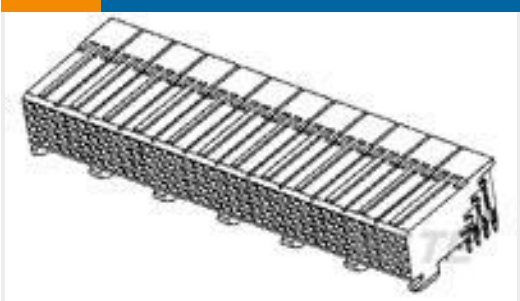
TE Part #5745183-2
09 RCPT SP/MS STD



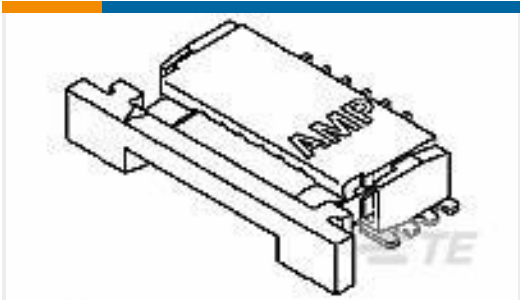
TE Part #5-2301994-8
RJ45 JACK INT.MAG. 10/100 LED 1X1 INV.



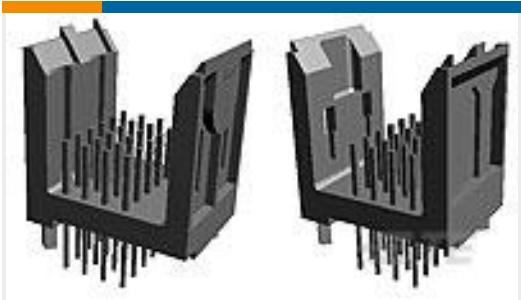
TE Part #4-2176326-6
CRGP 0603 56K 1%



TE Part #5536507-2
2MM FB,ASY,048,SIG,REC,SL,2.73



TE Part #3-84952-0
1MM FPC HORZ.BTTM CONT.ASS.30P



TE Part #5536501-2
2MM FB,ASY,48,SIG,HDR,SL,4.25

Documents

Product Drawings

12P UMNL PIN HDR ASSY NATL LF

English

CAD Files

Customer View Model

ENG_CVM_CVM_350433-4_AC.2d_dxf.zip

English

3D PDF



3D

Customer View Model

[ENG_CVM_CVM_350433-4_AC.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_350433-4_AC.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[SOFT_SHELL_PIN_SOCKET_CONNECTORS_STANDARD_DENSITY](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL](#)

English