1586681-2 ✔ ACTIVE

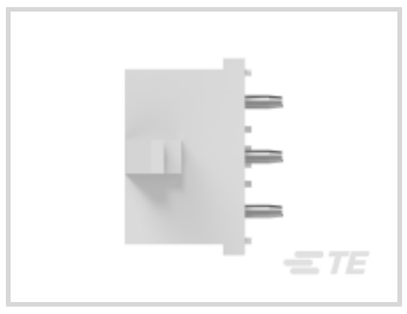
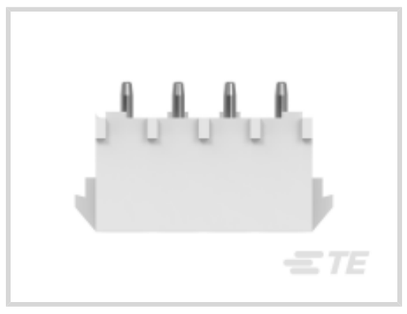
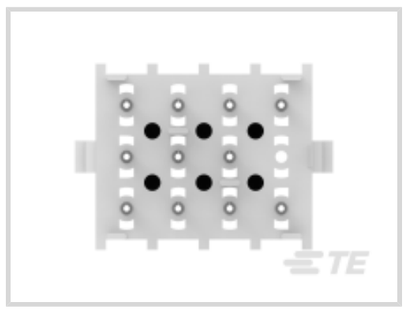
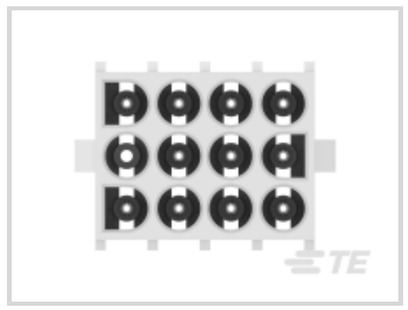
MATE-N-LOK | Universal MATE-N-LOK

TE Internal #: 1586681-2

Rectangular Power Connectors, Header, Receptacle, Wire-to-Board, 12 Position, 6.35 mm [.25 in] Centerline, Printed Circuit Board, Universal MATE-N-LOK

View on TE.com >

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors

Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **12**

Centerline (Pitch): **6.35 mm [.25 in]**

Features

Product Type Features

Rectangular Power Connector Type	Header
Connector & Housing Type	Receptacle
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Columns	4
Number of Loaded Positions	11
Number of Positions	12
PCB Mount Orientation	Vertical
Number of Power Positions	11
Number of Rows	3

Electrical Characteristics

Operating Voltage	600 VAC

Contact Features

Contact Layout	Matrix
Contact Mating Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	12 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Polarization
Mating Alignment	With
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	6.35 mm[.25 in]
Housing Color	White
Housing Material	Nylon

Dimensions

Connector Height	14.73 mm[.58 in]
PCB Thickness (Recommended)	1.57 mm[.06 in]
Product Width	20.32 mm[.8 in]
Product Length	26.67 mm[1.05 in]
Row-to-Row Spacing	6.35 mm[.25 in]

Usage Conditions

Operating Temperature Range	-40 - 105 °C[-40 - 221 °F]

Operation/Application

Shielded	No
Circuit Application	Power

Industry Standards

UL Rating	Recognized
Compatible With Agency/Standards Products	UL

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

Packaging Features

Packaging Quantity	75
Packaging Method	Bag

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 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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 # 1586174-1
06P UMNL PIN HDR 94VO NDH



TE Part # 2029002-1
09P UMNL HDR ASSY PC, NDH



TE Part # 1586176-1
12P UMNL PIN HDR 94VO NDH



TE Part # 1586681-8
12P UMNL PIN HDR ASSY 94VO omit #8



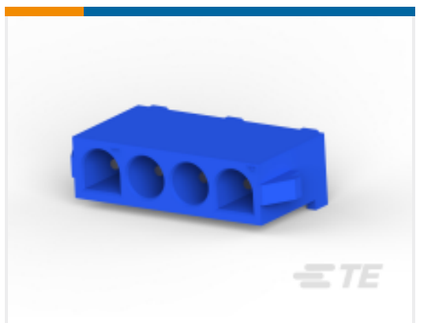
TE Part # 1586682-3
09P UMNL HDR ASSY PC 94VO SL



TE Part # 2029397-1
03P UMNL PIN HDR ASY 94VO NODH



TE Part # 2029451-1
06P UMNL SOK HDR ASSY W/O DRNS



TE Part # 6-641968-1
4P UMNL PIN HDR ASS POL VO BLU

TE Part # 2825006-1
09P UMNL HDR ASSY PC, NDH

TE Part # 2825061-1
09P UMNL HDR ASSY PC, NDH

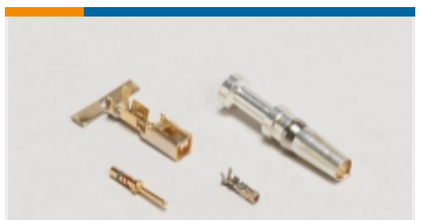
Also in the Series | Universal MATE-N-LOK



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)



Rectangular Connector Housings(1)



Rectangular Power Connectors(671)



Standard Circular Connectors(1)

Customers Also Bought



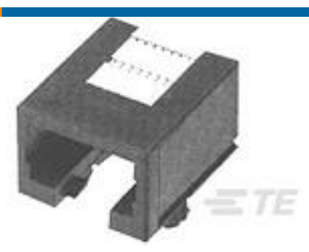
TE Part # 5747836-6
09 MSFL RCPT RA 590 (SL,FM,BL)



TE Part # DT15-12PC-G003
DEUTSCH DT Headers



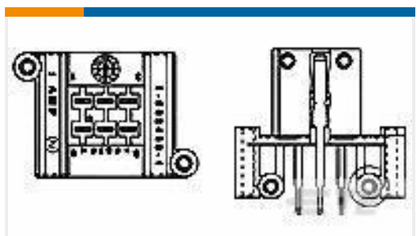
TE Part # 826469-5
2X5P MOD II SHROUDED HEADER, ST



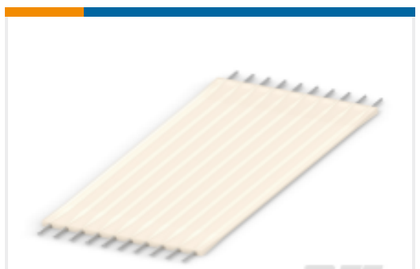
TE Part # 1-215876-3
6/6 PCB MOD.JACK SE



TE Part # 1676151-2
RN 0805 10K5 0.1% 10PPM 1KRL



TE Part # 1-929180-1
MESSERLEISTE3,0 6P



TE Part # 2205341-1
FSN-11.4A-5



TE Part # 2301994-3
RJ45 JACK INT.MAG. 10/100 1X1 INV.

Documents

Product Drawings

12P UMNL PIN HDR ASSY 94VO omit #2

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1586681-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1586681-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1586681-2_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditionsof use.

Product Specifications

Application Specification

English