643749-1 ✔ ACTIVE

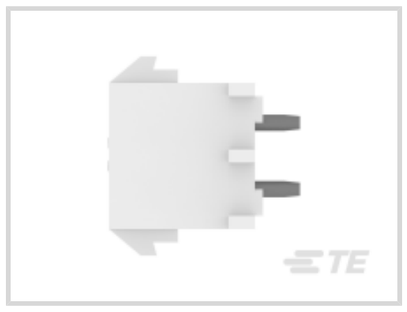
MATE-N-LOK | Universal MATE-N-LOK

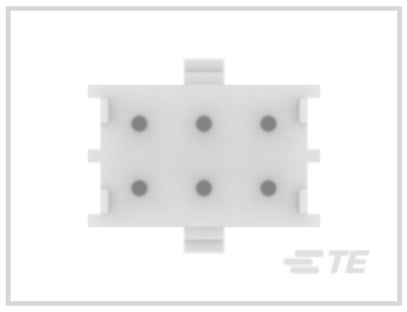
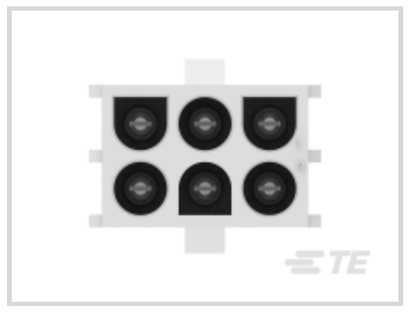
TE Internal #: 643749-1

PCB Mount Header, Vertical, Wire-to-Board, 6 Position, 6.35 mm [.25 in] Centerline, Fully Shrouded, Pre-Tin, Universal MATE-N-LOK

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles

PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

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

Number of Positions: **6**

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

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	3
Number of Loaded Positions	6
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	6
Number of Rows	2

Number of Power Positions	6

Electrical Characteristics

Operating Voltage	600 VAC

Body Features

Primary Product Color	Natural

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
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
Contact Mating Area Plating Material	Pre-Tin
Contact Mating Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]
Contact Type	Pin
Contact Current Rating (Max)	12 A
PCB Contact Termination Area Plating Material	Pre-Tin

Termination Features

Termination Post & Tail Diameter	1.57 mm[.062 in]
Termination Post & Tail Length	5.09 mm[.2 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

Housing Features

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

Dimensions

Row-to-Row Spacing	6.35 mm[.25 in]
Connector Width	13.97 mm[.55 in]
PCB Thickness (Recommended)	3.18 mm[.125 in]
Connector Height	13.97 mm[.55 in]
Connector Length	20.32 mm[.8 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

Industry Standards

Compatible With Agency/Standards Products	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-2

Packaging Features

Packaging Quantity	100
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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	

	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 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 # 643253-1
06P UMNL ASSY MOD HSG VO



TE Part # 1969881-1
06P UMNL CAP HSG, P/M, GW V0



TE Part # 1586090-3
06P UMNL PINHDR W/O DR HOLE LF



TE Part # 8-794536-1
06P UMNL CAP HSG 150C BLK, SPE



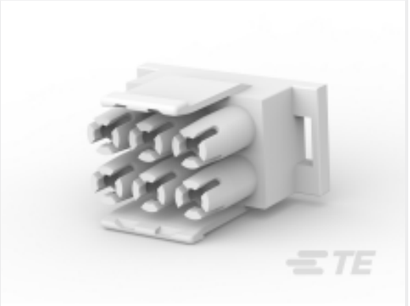
TE Part # 1586860-1
06P UMNL CAP HSG, GW



TE Part # 926682-4
6P UN-MNL AUFN-GEH



TE Part # 643423-1
06P UMNL HDR ASSY POL



TE Part # 2029369-1
06P UMNL-II REAR, TW-N-LK-CAP



TE Part # 641956-2

6P UMNL HDR HSG POL



TE Part # 2029367-1

06P UMNL-II TW-N-LK-CAP FRONT



TE Part # 350431-4

06P UMNL PINHDR ASSY V2 NAT LF



TE Part # 350588-1

15P UMNL PIN HDR ASSY V2 NATL



TE Part # 350732-1

06P UMNL PIN HDR ASSY 94VO



TE Part # 794536-1

06P UMNL CAP HSG 150C BLK



TE Part # 350434-1

15P UMNL PIN HDR ASSY NATL



TE Part # 350585-1

06P UMNL PIN HDR ASSY V2 NATL



TE Part # 350586-1

09P UMNL PIN HDR ASSY V2 NATL



TE Part # 926682-3

06P UNIV.M-N-L.HSG.



TE Part # 794714-3

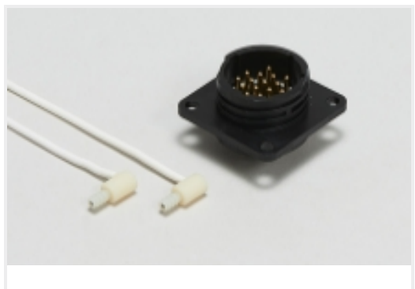
06P UMNL CAP HSG RED,PAN MNT



TE Part # 1586887-1

06P UMNL CAP HSG, P/M, GW

Also in the Series | Universal MATE-N-LOK



Circular Power Connectors(2)



Connector Caps & Covers(34)



Connector Contacts(205)



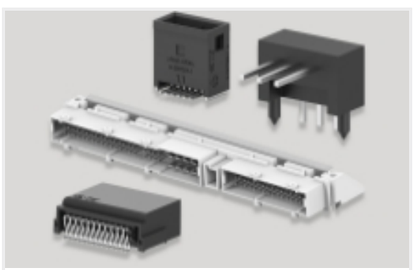
Connector Seals & Cavity Plugs(27)



Connector Strain Relief(7)



Insertion & Extraction Tools(4)



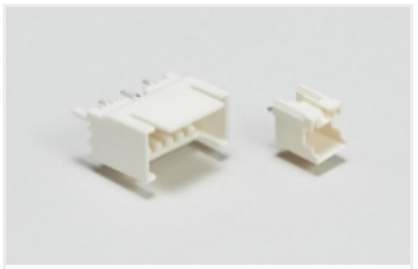
PCB Headers & Receptacles(285)



Power Contacts(205)

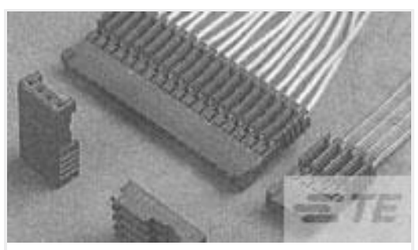


Standard Circular Connectors(1)

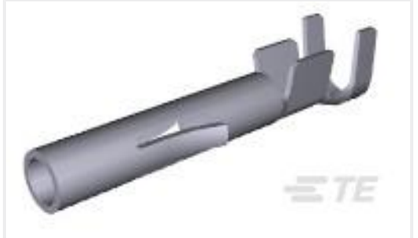


Wire-to-Board Headers & Receptacles (285)

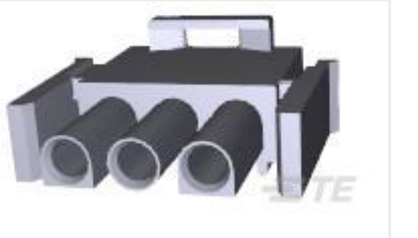
Customers Also Bought



TE Part #281784-4
PLUG HE13 IDC 180 4 P AWG 26-24



TE Part #350536-2
UMNL SOK 20-14 .0126 AUNI/BR



TE Part #1-480700-0
03P UMNL PLUG HSG NATL



TE Part #1-480701-0
03P UMNL CAP HSG NATL



TE Part #1-480703-0
04P UMNL CAP HSG NATL



TE Part #1-480764-0
05P UMNL CAP HSG NATL



TE Part #CAT-103156-WBHSM
Receptacle Housing: Wire-to-Board, with Mating Alignment, SL156



TE Part #1-640415-1
UMNL KEYING PLUG V2 NATL

TE Part #1586038-4
4P VRT HDR VAL-U-LOK V0

Documents

Product Drawings

06P UMNL HDR ASSY W/O DRNS

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_643749-1_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_643749-1_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_643749-1_D.3d_stp.zip

English

Customer View Model

ENG_CVM_643749-1_E.3d_igs.zip

English

Customer View Model

ENG_CVM_643749-1_E.3d_stp.zip

English

Customer View Model

ENG_CVM_643749-1_E.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

Agency Approvals

UL

English