

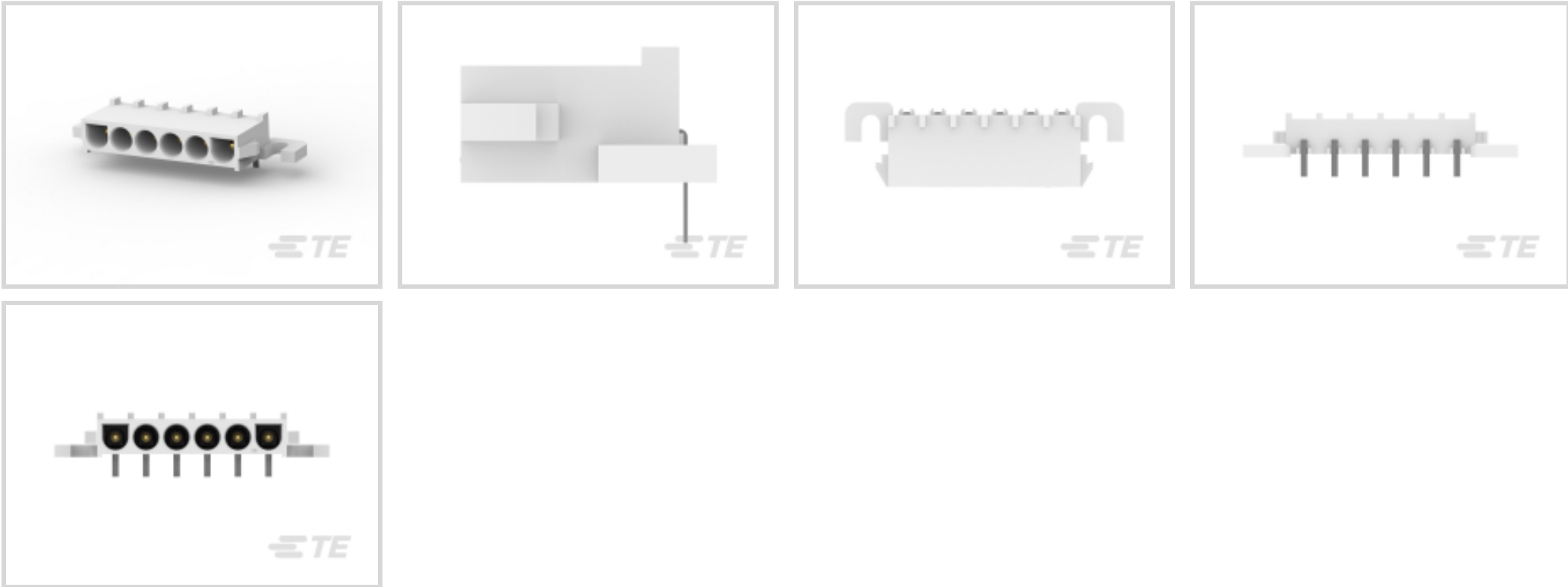


MATE-N-LOK | Universal MATE-N-LOK

TE Internal #: 640583-3
PCB Mount Header, Right Angle, Wire-to-Board, 6 Position, 6.35 mm [.25 in] Centerline, Fully Shrouded, Gold, 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: **6**
Number of Rows: **1**
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	6
Number of Columns	6
Number of Loaded Positions	6
Connector Contact Load Condition	Fully Loaded
Number of Positions	6
Number of Rows	1



PCB Mount Orientation	Right Angle
Electrical Characteristics	
Operating Voltage	600 VAC
Body Features	
Primary Product Color	Natural
Contact Features	
Contact Size	2.175mm
PCB Contact Termination Area Plating Material Thickness	3.81 – 5.08 µm[150 – 200 µin]
Contact Layout	Inline
Mating Pin Diameter	2.18 mm[.085 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 Length	4.06 mm[.16 in]
Termination Method to PCB	Through Hole - Solder
Mechanical Attachment	
Mating Alignment Type	Polarization
Mating Retention	With
Panel Mount Feature	Without
PCB Mount Retention Type	Mounting Ears
Mating Retention Type	Locking Tab
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without



PCB Mount Retention	With
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Housing Features

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

Dimensions

Connector Length	57.02 mm[2.24 in]
Connector Height	9.14 mm[.36 in]
Connector Width	17.27 mm[.68 in]
PCB Thickness (Recommended)	1.57 mm[.062 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-0

Packaging Features

Packaging Quantity	140
Packaging Method	Box

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 # 643585-2
06P UMNL STR/REL NATL

TE Part # 1-350589-0
STR/REL CLAMP NATL

TE Part # 350811-1
STR/REL CLAMP

TE Part # 640581-1
06P UMNL PLUG HSG

TE Part # 794275-1
06P UMNL INTERFACE SEAL

TE Part # 794276-1
06P UMNL WIRE SEAL

TE Part # 794993-1
06P UMNL BLACK INTERFACE SEAL

TE Part # 1863025-1
UNIVERSAL MNL 6-WAY CAP



TE Part # 643313-1
06P UMNL STR/REL

TE Part # 643313-2
06P UMNL STR/REL

TE Part # 643253-1
06P UMNL ASSY MOD HSG VO

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(379)

Standard Circular Connectors(1)

Customers Also Bought

TE Part #640455-5
05P MTA100 HDR ASSY SQ R/A POL

TE Part #1-770969-1
06P MINI UMNL R/A HDR ASSY LF

TE Part #350829-1
12P UMNL HDR ASSY PC 94VO

TE Part #2007198-1
SFP+ 1x1 Cage Assembly, Press-



Documents

Product Drawings

06P UMNL HDR ASSY R/A 94VO LF

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_640583-3_P.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_640583-3_P.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_640583-3_P.3d_stp.zip

English

3D PDF

English

Customer View Model

ENG_CVM_640583-3_J.3d_igs.zip

English

Customer View Model

ENG_CVM_640583-3_J.3d_stp.zip

English

Customer View Model

ENG_CVM_640583-3_J.2d_dxf.zip

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