

643232-1 ✓ ACTIVE

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

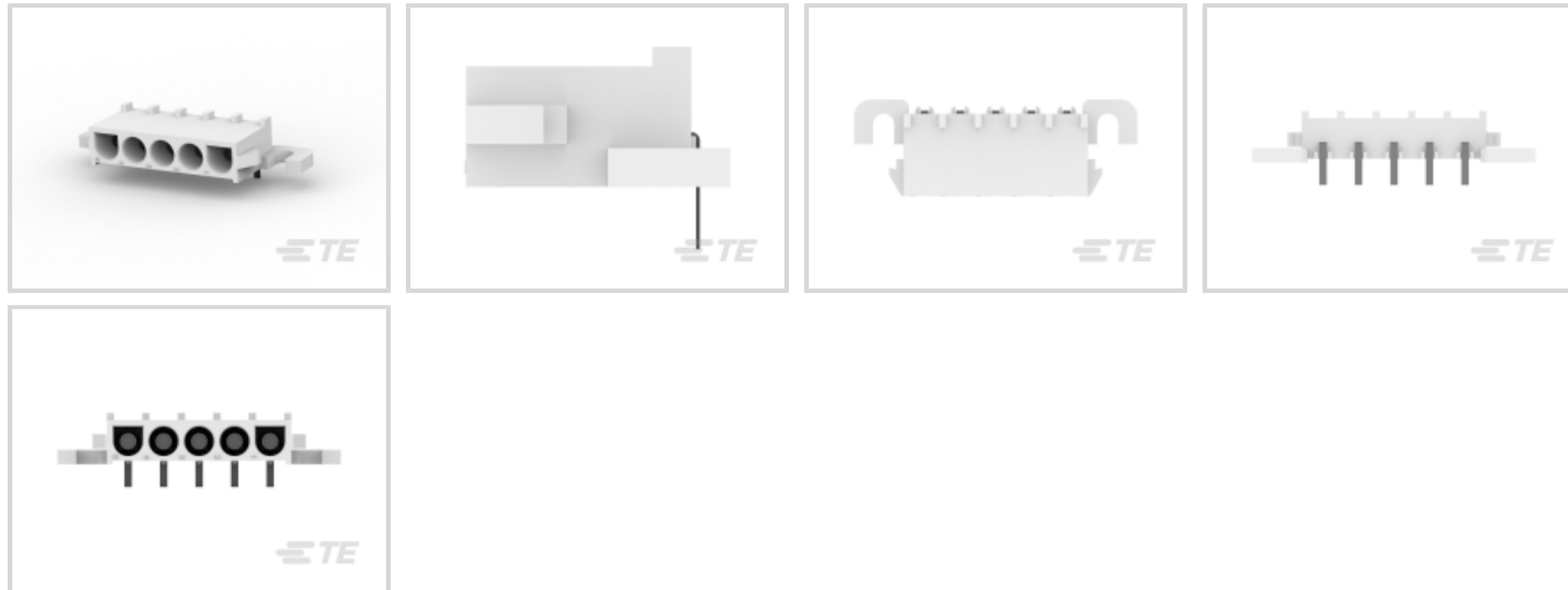
TE Internal #: 643232-1

PCB Mount Header, Right Angle, Wire-to-Board, 5 Position, 6.35 mm [.25 in] Centerline, Fully Shrouded, Pre-Tin, Universal MATE-N-LOK

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **5**

Number of Rows: **1**

## 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	5
Number of Loaded Positions	5
Number of Power Positions	5
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Right Angle



Number of Positions	5
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Number of Rows	1
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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 Underplating Material	Nickel
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Contact Underplating Material Thickness	1.27 – 1.79 $\mu\text{m}$ [50 – 70 $\mu\text{in}$ ]
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Contact Size	2.95mm
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Contact Mating Area Plating Material Thickness	3.81 – 5.08 $\mu\text{m}$ [150 – 200 $\mu\text{in}$ ]
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Contact Shape & Form	Round
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PCB Contact Termination Area Plating Material Thickness	3.81 – 5.08 $\mu\text{m}$ [150 – 200 $\mu\text{in}$ ]
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Contact Layout	Inline
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Contact Base Material	Phosphor Bronze
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PCB Contact Termination Area Plating Material	Pre-Tin
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Contact Mating Area Plating Material	Pre-Tin
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Contact Type	Socket
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Contact Current Rating (Max)	12 A
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### Termination Features

Termination Post & Tail Length	4.06 mm[.16 in]
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Termination Method to PCB	Through Hole - Solder
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### Mechanical Attachment

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

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

### Dimensions

Connector Width	17.27 mm [.68 in]
PCB Thickness (Recommended)	1.57 mm [.062 in]
Connector Height	9.14 mm [.36 in]
Connector Length	50.67 mm [1.995 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	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: 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 # 926306-5  
UMNL 5 WAY CAP HSG



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



TE Part # 1969806-1  
04P UMNL HDR ASSY R/A, SCKT V0  
GW



TE Part # 643030-1  
05P UMNL STR/REL



TE Part # 350809-1  
05P UMNL PLUG HSG



TE Part # 643030-2  
05P UMNL STR/REL V2 NATL



TE Part # 643030-3  
05P UMNL STR/REL V2 NATL



TE Part # 1969808-1  
05P UMNL HDR ASSY R/A, PIN V0 GW



TE Part # 770016-1  
05P UMNLII IN-LNE PLUG HSG KIT



TE Part # 643030-4  
05P UMNL STR/REL



TE Part # 350811-1  
STR/REL CLAMP



TE Part # 350848-5  
05P UMNL PLUG TEST ASSY 94VO

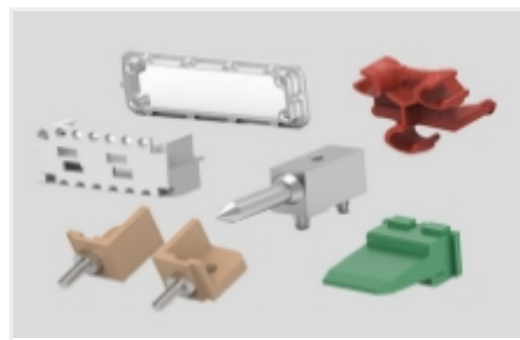
Also in the Series | **Universal MATE-N-LOK**



Circular Power Connectors(2)



Connector Contacts(208)



Connector Hardware(12)



Power Contacts(208)



Rectangular Power Connectors(651)



Standard Circular Connectors(1)

## Customers Also Bought



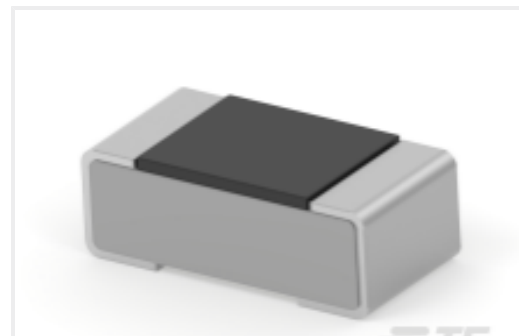
TE Part #1676480-7  
CRG0402 1% 120K



TE Part #1-1676480-4  
CRG0402 1% 150R



TE Part #3-1393239-0  
RT134024



TE Part #1-2176338-0  
CRGCO 0402 33R 5%



TE Part #CAT-D9934-A75F  
Header Assembly: Wire-to-Board, 15A,  
gold or tin plated



TE Part #643228-1  
03P UMNL HDR ASSY R/A 94VO



TE Part #1-1879217-1  
CPF 0603 360K 0.1% 25PPM 1K RL



TE Part #6-1879417-7  
CPF0603 590K 0.1% 25PPM 1K RL

## Documents

### Product Drawings

[05P UMNL HDR ASSY R/A 94VO](#)

English

### CAD Files

[3D PDF](#)

[3D](#)

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_643232-1\\_H.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_643232-1\\_H.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_643232-1\\_H.3d\\_stp.zip](#)

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Customer View Model

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English

Customer View Model

[ENG\\_CVM\\_643232-1\\_D.3d\\_stp.zip](#)

English

Customer View Model

[ENG\\_CVM\\_643232-1\\_D.2d\\_dxf.zip](#)

English

[3D PDF](#)

English

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

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### Datasheets & Catalog Pages

[SOFT\\_SHELL\\_PIN\\_SOCKET\\_CONNECTORS\\_STANDARD\\_DENSITY](#)

English

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### Product Specifications

[Application Specification](#)

English

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### Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

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### Agency Approvals

[UL](#)

English