

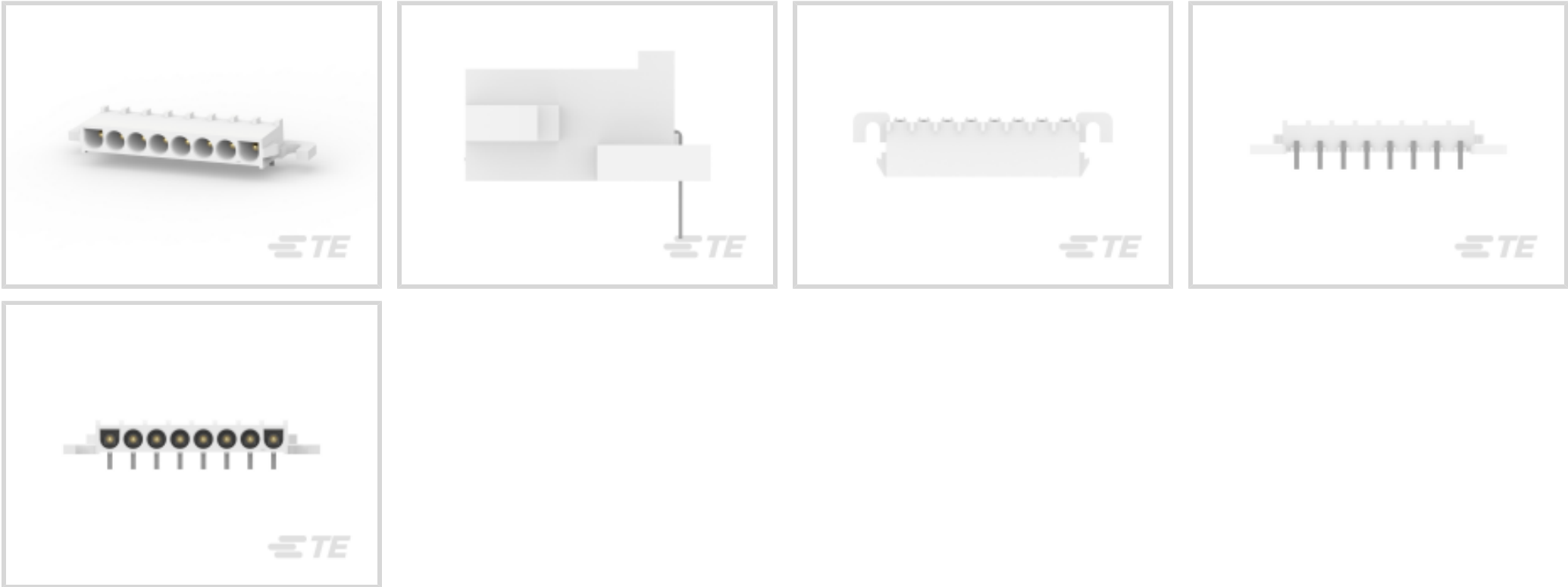


MATE-N-LOK | Universal MATE-N-LOK

TE Internal #: 640584-3  
Rectangular Power Connectors, Header, Plug, Wire-to-Board, 8  
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: **Plug**  
Connector System: **Wire-to-Board**  
Number of Positions: **8**  
Centerline (Pitch): **6.35 mm [.25 in ]**

Features

Product Type Features

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

Configuration Features

|                           |          |
|---------------------------|----------|
| Number of Positions       | 8        |
| PCB Mount Orientation     | Vertical |
| Number of Power Positions | 8        |
| Number of Rows            | 1        |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 600 VAC |
|-------------------|---------|

Contact Features

|                |        |
|----------------|--------|
| Contact Layout | Inline |
|----------------|--------|



|                                                |                           |
|------------------------------------------------|---------------------------|
| Contact Termination Area Plating Finish        | Matte                     |
| Multiple Contact Types                         | Without                   |
| Contact Current Rating (Max)                   | 12 A, 19 A                |
| Contact Retention Within Housing               | Without                   |
| Contact Type                                   | Pin                       |
| PCB Contact Termination Area Plating Material  | Tin                       |
| Contact Mating Area Plating Material           | Gold                      |
| Contact Mating Area Plating Material Thickness | .76 – .91 µm[30 – 36 µin] |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Termination Post & Tail Length              | 3.69 mm[.145 in]      |
| Termination Method to Printed Circuit Board | Through Hole - Solder |

Mechanical Attachment

|                          |               |
|--------------------------|---------------|
| Strain Relief            | Without       |
| Mating Alignment Type    | Polarization  |
| Mating Alignment         | With          |
| PCB Mount Alignment      | Without       |
| Panel Mount Feature      | Without       |
| PCB Mount Retention      | With          |
| PCB Mount Retention Type | Mounting Hole |
| Connector Mounting Type  | Board Mount   |
| Mating Retention         | With          |
| Mating Retention Type    | Positive Lock |

Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 6.35 mm[.25 in] |
| Housing Color      | Natural         |
| Housing Material   | Nylon           |

Dimensions

|                             |                 |
|-----------------------------|-----------------|
| Width                       | 17.27 mm        |
| PCB Thickness (Recommended) | 1.6 mm[.063 in] |
| Height                      | 9.14 mm         |
| Length                      | 52.07 mm        |

Usage Conditions

|  |  |
|--|--|
|  |  |
|--|--|



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

Operation/Application

|                              |         |
|------------------------------|---------|
| Assembly Integration Feature | Without |
| Circuit Application          | Power   |

Industry Standards

|                        |                               |
|------------------------|-------------------------------|
| CSA Rating             | Certified                     |
| UL Flammability Rating | UL 94V-0                      |
| Glow Wire Rating       | Standard Part - Not Glow Wire |
| Agency/Standard Number | E28476                        |
| Agency/Standard        | CSA, UL                       |
| UL Rating              | Recognized                    |
| CSA File Number        | LR7189                        |
| VDE Tested             | Yes                           |

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Method   | Box |
| Packaging Quantity | 140 |

Other

|              |                      |
|--------------|----------------------|
| For Use With | Universal MATE-N-LOK |
|--------------|----------------------|

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 2022 (224)<br>Candidate List Declared Against: JUNE 2022 (224)<br>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 # 640582-1  
08P UMNL PLUG HSG

TE Part # 826851-3  
8P UN-MNL BU SOCK

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

TE Part # 350811-1  
STR/REL CLAMP

TE Part # 643314-1  
08P UMNL STR/REL

TE Part # 643314-2  
08P UMNL STR/REL HSG

Also in the Series | Universal MATE-N-LOK

Circular Power Connectors(2)

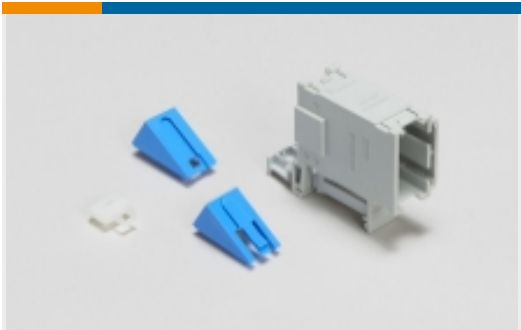
Connector Contacts(11)

Insertion & Extraction Tools(4)

Power Contacts(207)



Rectangular Boots & Strain Relief(35)



Rectangular Connector Adapters(7)



Rectangular Connector Hardware(1)



Rectangular Connector Housings(2)



Rectangular Connector Keying Plugs(3)



Rectangular Connector Locking(4)



Rectangular Connector Seals(26)



Rectangular Power Connectors(728)

Documents

Product Drawings

08P UMNL HDR ASSY R/A 94VO LF

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_640584-3\_P.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_640584-3\_P.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_640584-3\_P.3d\_stp.zip

English

3D PDF

English

Customer View Model

ENG\_CVM\_640584-3\_J.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_640584-3\_J.3d\_stp.zip

English

Customer View Model

ENG\_CVM\_640584-3\_J.2d\_dxf.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

Product Environmental Compliance  
[MD\\_640584-3\\_04242018717\\_dmtec](#)

English

[MD\\_640584-3\\_04242018717\\_dmtec](#)

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Agency Approvals  
[CSA Certificate](#)

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