

770974-1 ✓ ACTIVE

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

TE Internal #: 770974-1

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 16 Position, 4.14 mm [.162 in] Centerline, Printed Circuit Board, Mini-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: **16**

Centerline (Pitch): **4.14 mm [.162 in]**

## Features

### Product Type Features

Header Type	Fully Shrouded
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	16
PCB Mount Orientation	Right Angle
Number of Power Positions	16
Number of Signal Positions	0
Number of Rows	2

### Electrical Characteristics

Operating Voltage	600 VDC
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### Contact Features

Multiple Contact Types	Without
Contact Mating Area Plating Material	Tin-Lead
Contact Current Rating (Max)	9.5 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material Thickness	3.81 – 6.35 $\mu\text{m}$ [150 – 250 $\mu\text{in}$ ]

### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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### Mechanical Attachment

Strain Relief	Without
Mating Alignment Type	Chamfered Edges
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	Without
Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Retention Type	Locking Tab
Connector Mounting Type	Board Mount

### Housing Features

Centerline (Pitch)	4.14 mm[.162 in]
Housing Color	White
Housing Material	Nylon

### Dimensions

Connector Height	13.49 mm
Product Width	9.8 mm
Product Length	34.7 mm
Row-to-Row Spacing	4.14 mm[.163 in]

### Usage Conditions

Operating Temperature Range	-55 – 105 $^{\circ}\text{C}$ [-67 – 221 $^{\circ}\text{F}$ ]
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### Operation/Application

Circuit Application	Power
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### Identification Marking

Circuit Identification Feature	Without
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### Industry Standards

CSA Rating	Certified, LR 7189
UL Rating	Recognized
Agency/Standard	CSA, UL
Approved Standards	UL E28476
UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

### Packaging Features

Packaging Quantity	200
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: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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	Not lead free process capable

#### Product Compliance Disclaimer

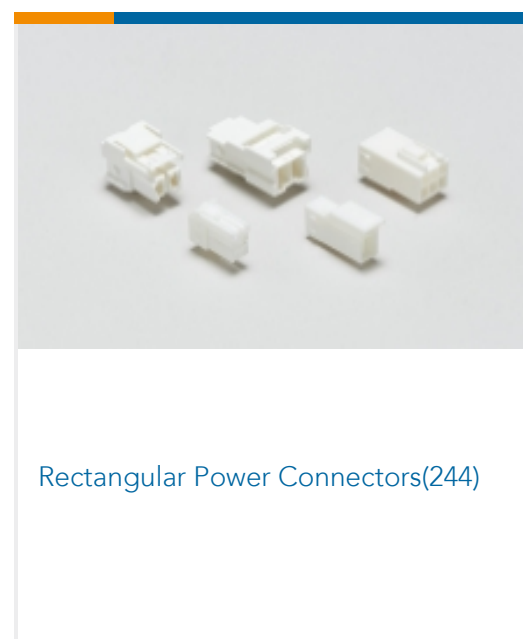
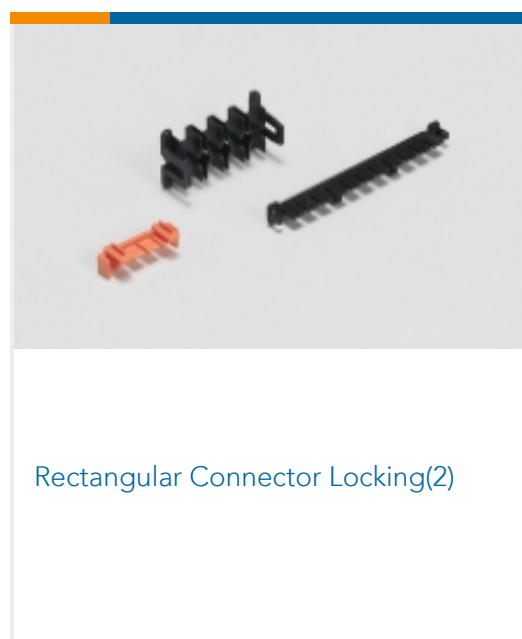
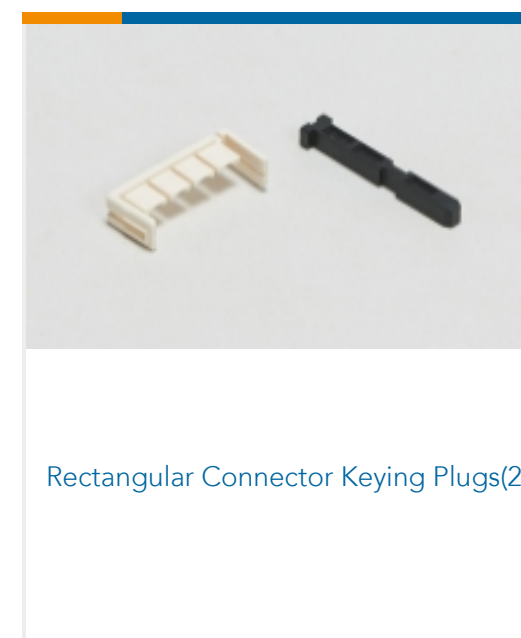
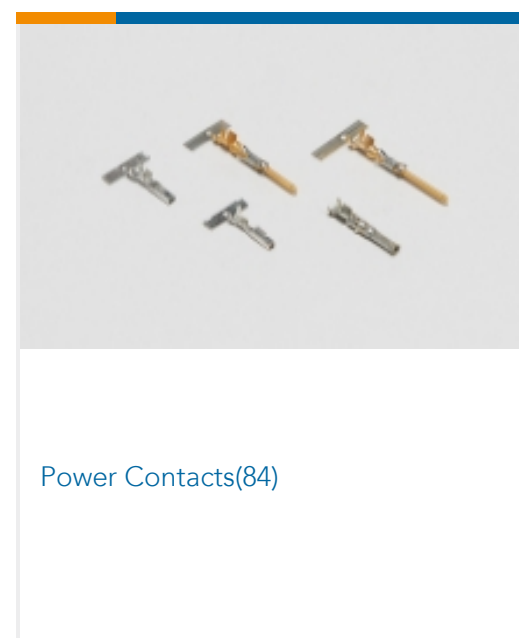
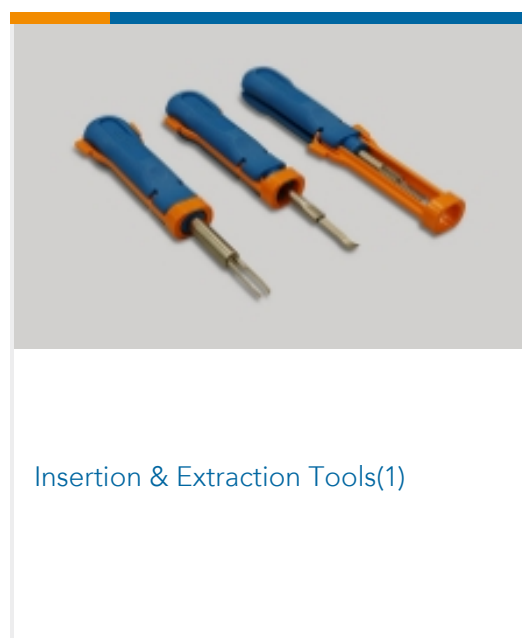
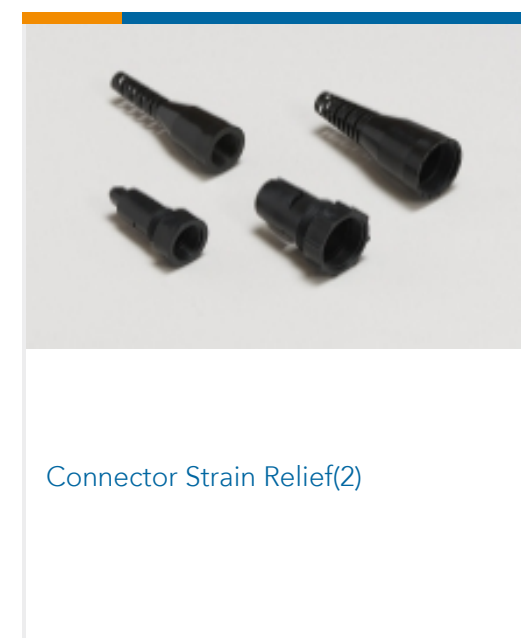
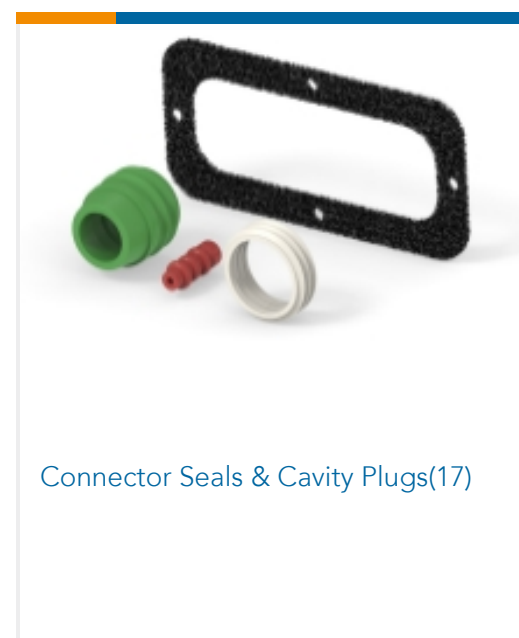
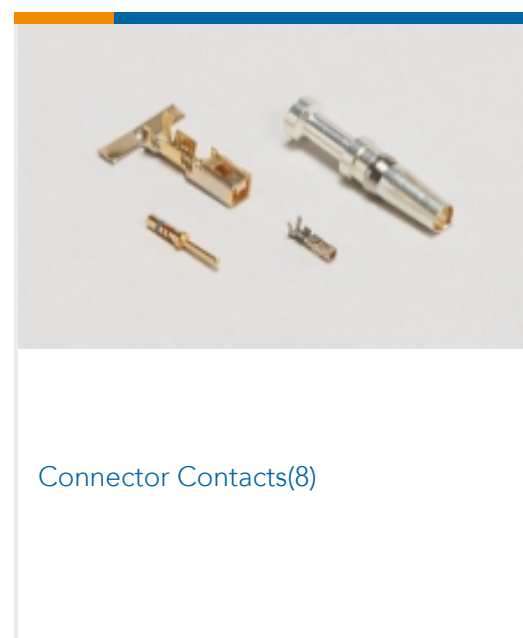
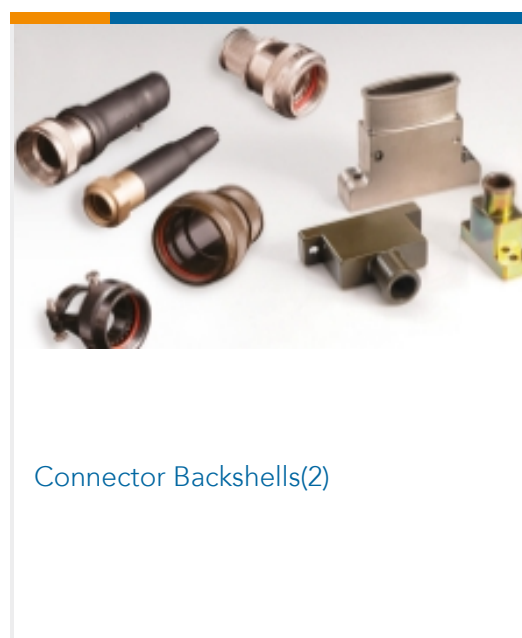
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



## Also in the Series | Mini-Universal MATE-N-LOK



## Customers Also Bought





TE Part #1735446-3  
2MM PITCH HPI POST HEADER,  
VERTICAL, 3P



TE Part #1761681-7  
IDC LOW PRO HDR 20P VERT HT  
BLACK



TE Part #5205817-3  
FEMALE SCREWLOCK KIT



TE Part #1-770971-1  
10P MINI UMNL R/A HDR ASSY LF



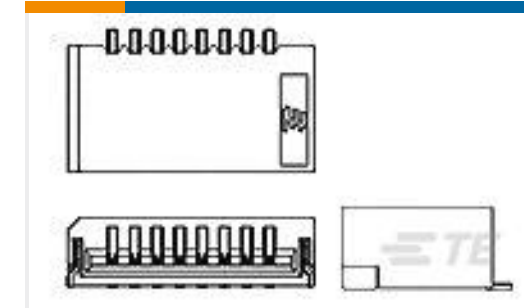
TE Part #770166-1  
02P MINI-UMNL ASSY VO SNNI\*



TE Part #1-770902-1  
MINI UMNL SOK 26-22 AWG AU LF



TE Part #1-770901-0  
MINI UMNL PIN 26-22 AWG AU LF



TE Part #1-84981-0  
1MM FFC SMT H ASSY 10P EMBOSS



TE Part #770170-1  
03P MINI-UMNL ASSY VO SNNI\*



TE Part #1-770903-1  
MINI UMNL PIN 22-18 AWG AU LF

## Documents

### Product Drawings

[16P MINI UMNL R/A HDR ASSY SN](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_770974-1\\_E.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_770974-1\\_E.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_770974-1\\_E.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages



## [SOFT\\_SHELL\\_PIN\\_AND\\_SOCKET\\_CONNECTORS\\_CATALOG](#)

English

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### [Product Specifications](#)

#### [Application Specification](#)

English

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### [Product Environmental Compliance](#)

#### [TE Material Declaration](#)

English

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### [Instruction Sheets](#)

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

English

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

English

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### [Agency Approvals](#)

#### [Agency Approval Document](#)

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