

770247-3 ✓ ACTIVE

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

TE Internal #: 770247-3

Universal MATE-N-LOK, Power Contacts, Contact, Operating Voltage 600 VAC, Pre-Tin, 12 – 10AWG Wire Size, 3 – 6mm<sup>2</sup> Wire Size, Wire-to-Wire

[View on TE.com >](#)



Connectors > Power Connectors > Power Contacts



Power Contact Type: **Contact**

Operating Voltage: **600 VAC**

Contact Mating Area Plating Material: **Pre-Tin**

Wire Size: **3 – 6 mm<sup>2</sup>**

## Features

### Product Type Features

|                                   |              |
|-----------------------------------|--------------|
| Power Contact Type                | Contact      |
| Connector System                  | Wire-to-Wire |
| Connector & Contact Terminates To | Wire & Cable |

### Electrical Characteristics

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

### Contact Features

|   |                   |
|---|-------------------|
| Contact Mating Area Plating Material                  | Pre-Tin           |
| Contact Current Rating (Max)                          | 7 A               |
| Contact Type  | Socket            |
| Contact Retention Within Housing                      | Without           |
| Mating Pin Diameter                                   | 2.18 mm [.086 in] |
| Contact Base Material                                 | Phosphor Bronze   |
| Wire Contact Termination Area Plating Material        | Pre-Tin           |
| Wire Contact Termination Area Plating Material Finish | Matte             |
| Contact Orientation                                   | Straight          |



### Termination Features

|                                    |       |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

### Mechanical Attachment

|                         |                            |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
| Wire Insulation Support | Without                    |

### Dimensions

|           |                       |
|-----------|-----------------------|
| Wire Size | 3 – 6 mm <sup>2</sup> |
|-----------|-----------------------|

### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 120 °C[-67 – 248 °F] |
|-----------------------------|----------------------------|

### Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

### Industry Standards

|                  |                               |
|------------------|-------------------------------|
| CSA Rating       | Certified                     |
| Glow Wire Rating | Standard Part - Not Glow Wire |
| VDE Tested       | Yes                           |
| Agency/Standard  | CSA, UL                       |
| CSA File Number  | LR 7189                       |
| UL Rating        | Recognized                    |
| UL File Number   | E28476                        |

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Method   | Bag  |
| Packaging Quantity | 1000 |

### Other

|                 |                                    |
|-----------------|------------------------------------|
| Wire/Cable Type | Discrete Wire                      |
| Wire Type       | Stranded                           |
| For Use With    | Standard Universal MATE-N-LOK(Pin) |

### 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 2021 (211)<br>Candidate List Declared Against: JAN 2021 (211)<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                     | Not applicable for solder process capability  |

Product Compliance Disclaimer

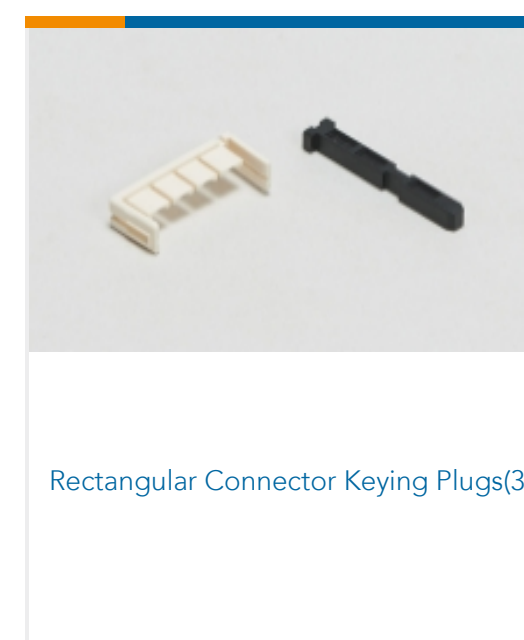
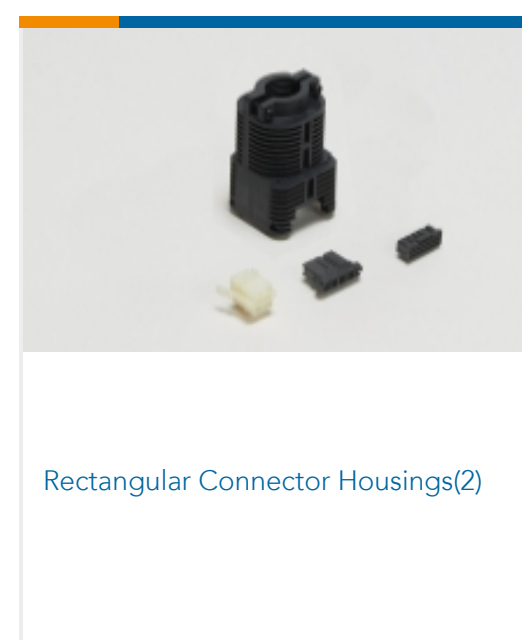
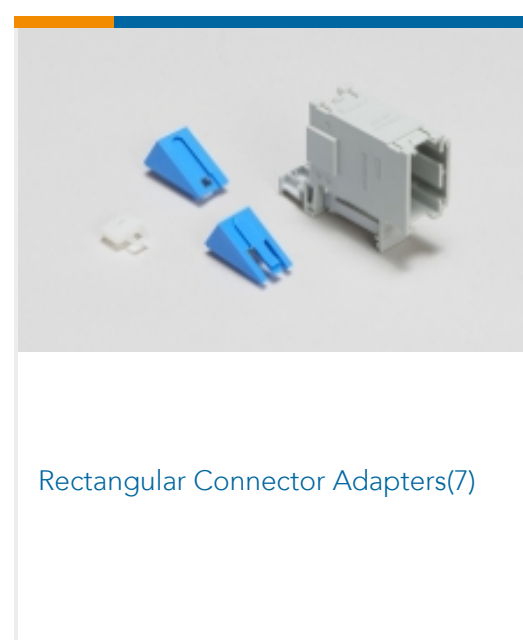
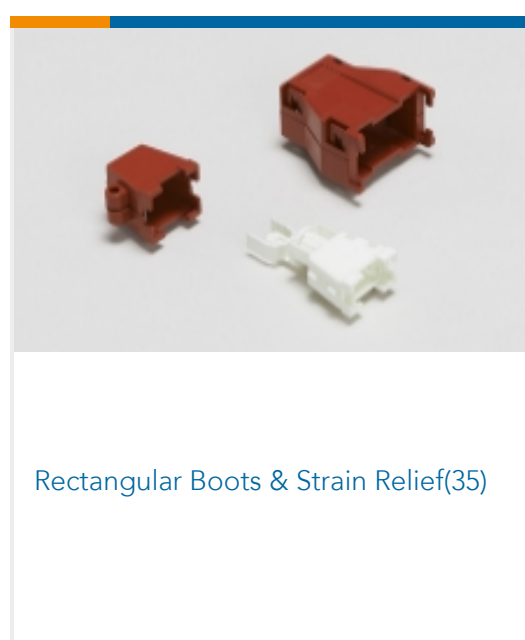
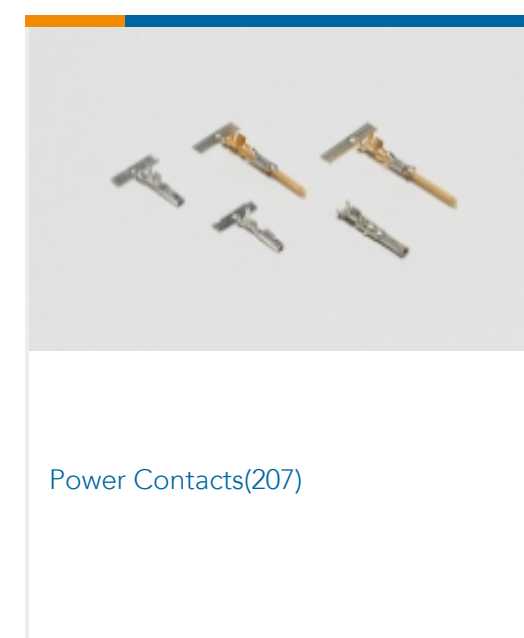
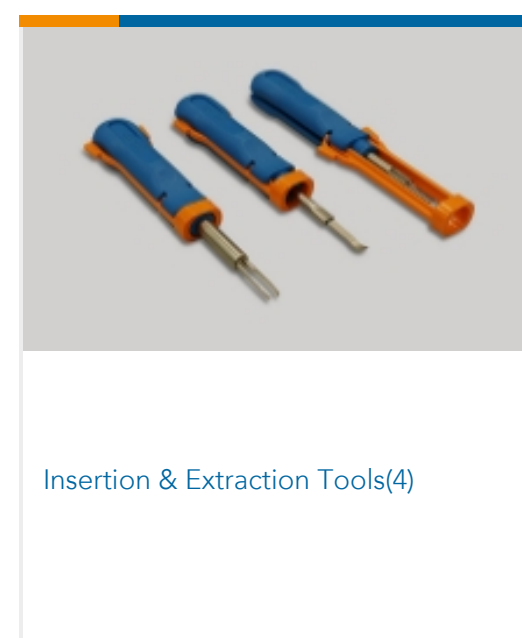
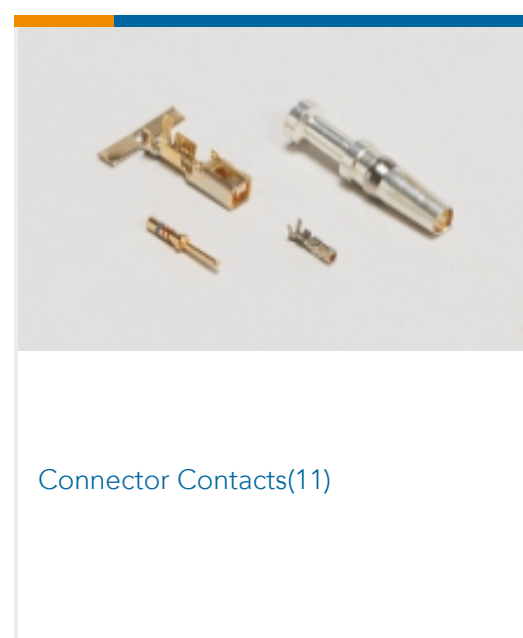
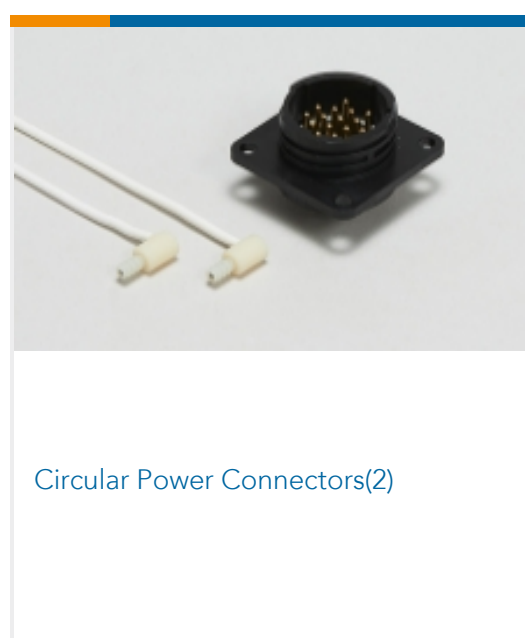
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

|  |  |  |  |
|--|--|--|--|
|  <p>TE Part # 539972-1<br/>EXTRACTION TOOL</p>                |  <p>TE Part # 770022-1<br/>12P UMNLI IN-LINE PLUG HSG KIT</p> |  <p>TE Part # 770019-1<br/>04P UMNLI IN-LINE PLUG HSG KIT</p> |  <p>TE Part # 770028-1<br/>09P UMNLI IN-LINE CAP HSG KIT</p>  |
|  <p>TE Part # 770016-1<br/>05P UMNLI IN-LINE PLUG HSG KIT</p> |  <p>TE Part # 770026-1<br/>04P UMNLI IN-LINE CAP HSG KIT</p>  |  <p>TE Part # 770029-1<br/>12P UMNLI IN-LINE CAP HSG KIT</p>  |  <p>TE Part # 770018-1<br/>03P UMNLI IN-LINE PLUG HSG KIT</p> |

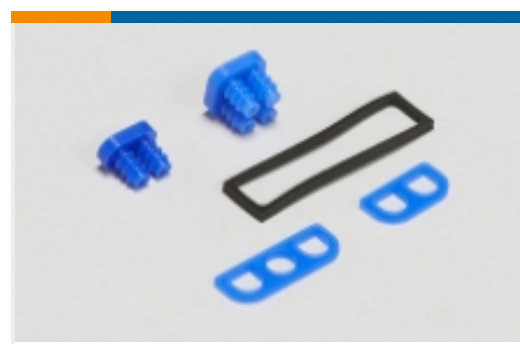


## Also in the Series | Universal MATE-N-LOK





Rectangular Connector Locking(4)



Rectangular Connector Seals(26)



Rectangular Power Connectors(725)

## Customers Also Bought



TE Part #5748536-1  
D-Sub Crimp Recept Signal 9 Posn,  
Socket Size 20, Shell Size 1



TE Part #2-328998-1  
PIDG RING TONGUE TERMINALS



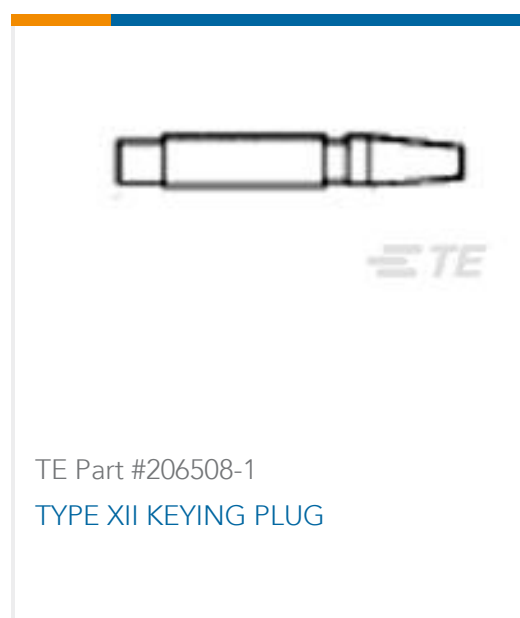
TE Part #1393143-8  
27E125=SOCKET,R10,10,SLG,PHE



TE Part #2-34067-1  
PG BUTT SPLC 22-16COMM22-18MIL



TE Part #58530-1  
AMP PRO-CRIMPER HAND TOOL II



TE Part #206508-1  
TYPE XII KEYING PLUG



TE Part #5748526-1  
D-Sub Crimp: Plug, Signal, 9 Posn, Pin  
Size 20, Shell Size 1



TE Part #DRC14-40PA  
DEUTSCH DRC HOUSINGS



TE Part #480116-3  
FF 250 TAB HSG 2P NYLON BLACK



TE Part #1217151-1  
187 FASTON,PIGGYBACK REC.,18-14  
AWG,TPBR

## Documents

### Product Drawings

[UMNL II SOK PTPPHBZ LP 12-10](#)

English

### CAD Files

[3D PDF](#)

3D

[3D PDF](#)

English

**Customer View Model**[ENG\\_CVM\\_770247-3\\_E.3d\\_igs.zip](#)

English

**Customer View Model**[ENG\\_CVM\\_770247-3\\_E.3d\\_stp.zip](#)

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**Customer View Model**[ENG\\_CVM\\_770247-3\\_E.2d\\_dxf.zip](#)

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**Customer View Model**[ENG\\_CVM\\_CVM\\_770247-3\\_C.2d\\_dxf.zip](#)

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**Customer View Model**[ENG\\_CVM\\_CVM\\_770247-3\\_C.3d\\_stp.zip](#)

English

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**Datasheets & Catalog Pages**[SOFT\\_SHELL\\_PIN\\_SOCKET\\_CONNECTORS\\_STANDARD\\_DENSITY](#)

English

**Product Specifications**[Application Specification](#)

English

**Product Environmental Compliance**[TE Material Declaration](#)

English