

350829-1 ✓ ACTIVE

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

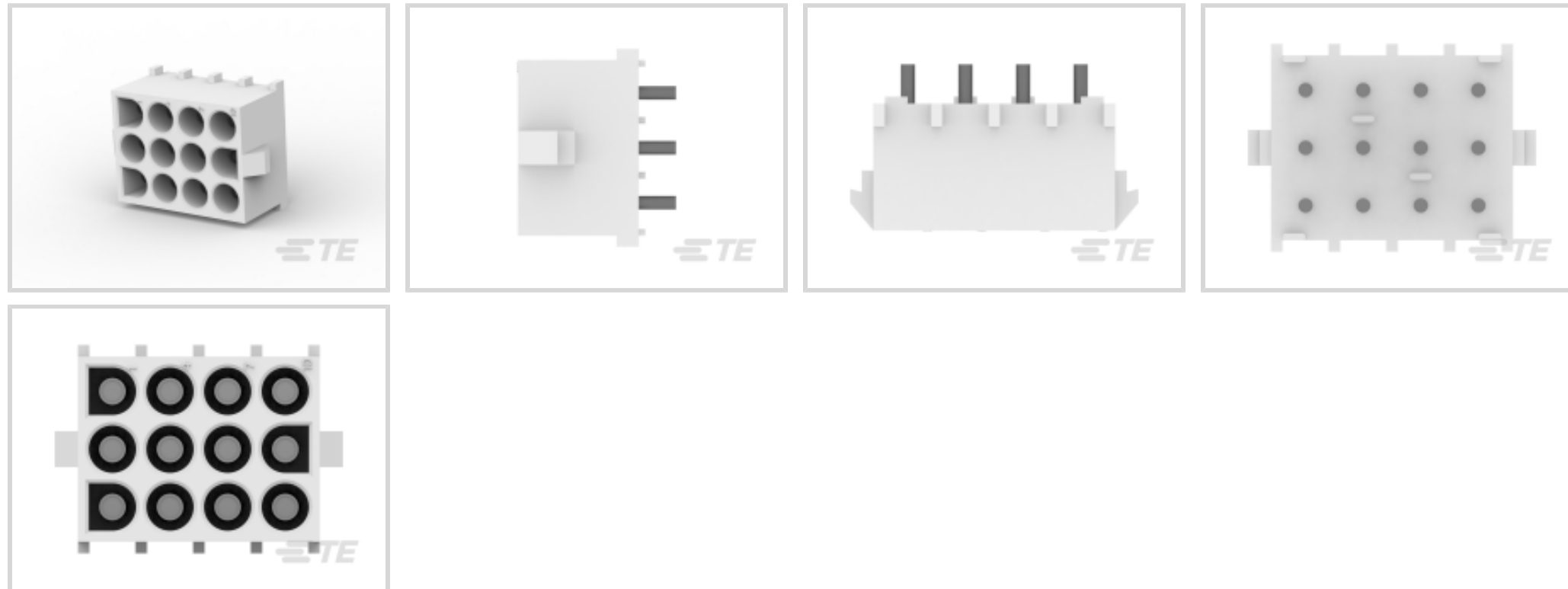
TE Internal #: 350829-1

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 12  
Position, 6.35 mm [.25 in] Centerline, Printed Circuit Board,  
Universal MATE-N-LOK

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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: **12**

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	12
PCB Mount Orientation	Vertical
Number of Power Positions	12
Number of Rows	3

### Electrical Characteristics

Operating Voltage	600 VAC
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### Contact Features

Multiple Contact Types	Without
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PCB Contact Termination Area Plating Material Thickness	2.54 $\mu\text{m}$ [100 $\mu\text{in}$ ]
Contact Layout	Matrix
Contact Underplating Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
Contact Mating Area Plating Material	Tin
Contact Current Rating (Max)	12 A, 19 A
Contact Retention Within Housing	Without
Contact Type	Socket
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	3.81 – 5.08 $\mu\text{m}$ [150 – 200 $\mu\text{in}$ ]

### Termination Features

Termination Post & Tail Length	3.18 mm[.125 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

### Mechanical Attachment

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

### Housing Features

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

### Dimensions

Compatible Insulation Diameter (Max)	5.08 mm
Connector Height	13.97 mm
PCB Thickness (Recommended)	1.57 mm[.062 in]
Product Width	20.32 mm
Product Length	26.67 mm



Row-to-Row Spacing	6.35 mm[.25 in]
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### Usage Conditions

Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]
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### Operation/Application

Circuit Application	Power
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### Industry Standards

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

### Packaging Features

Packaging Quantity	75
Packaging Method	Bag & 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 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	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

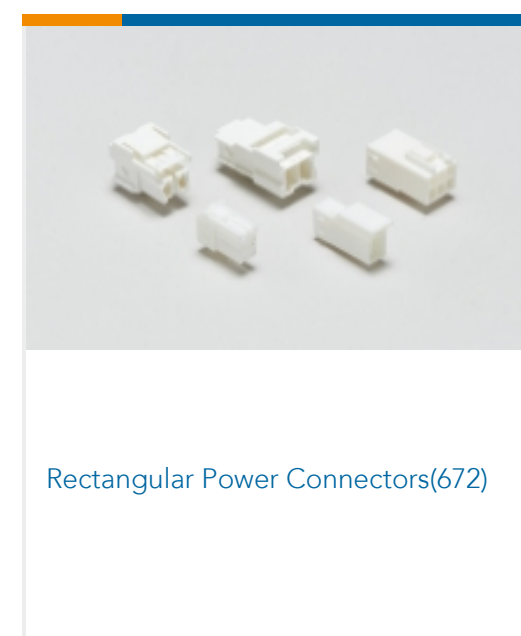
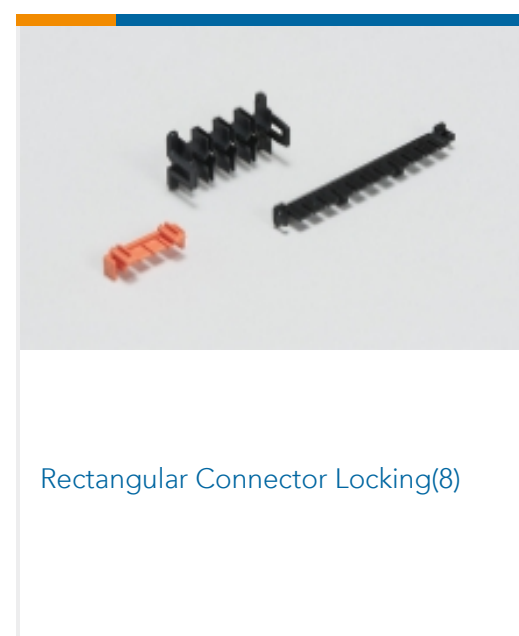
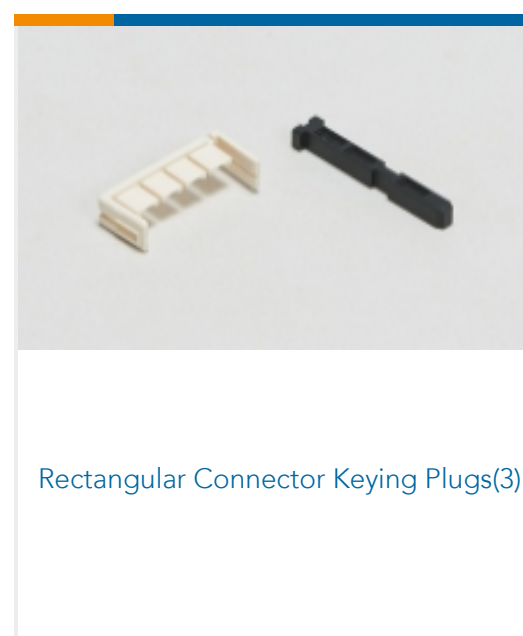
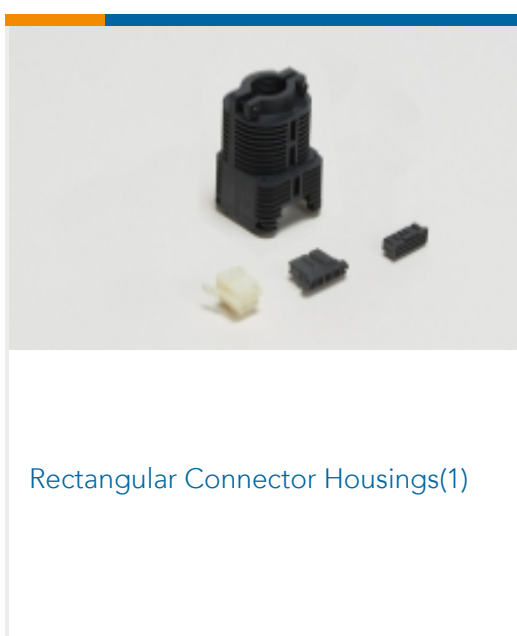
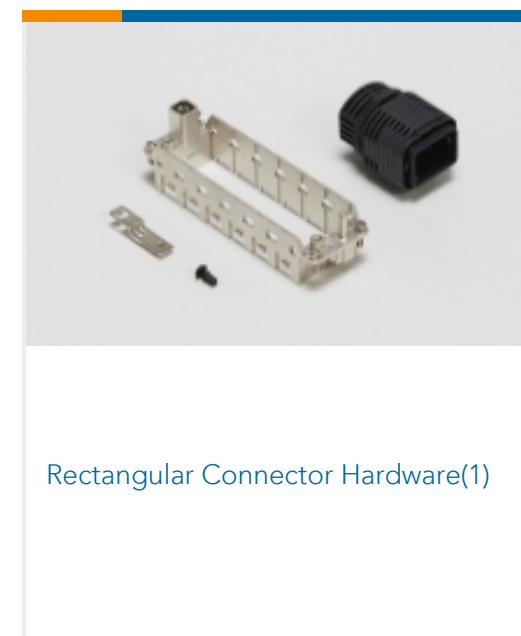
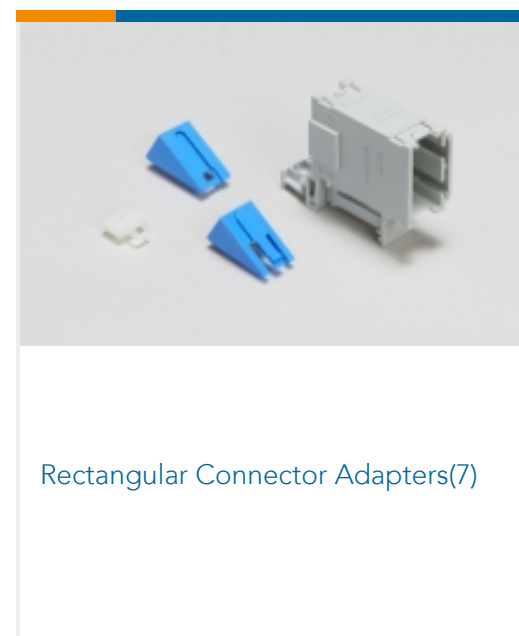
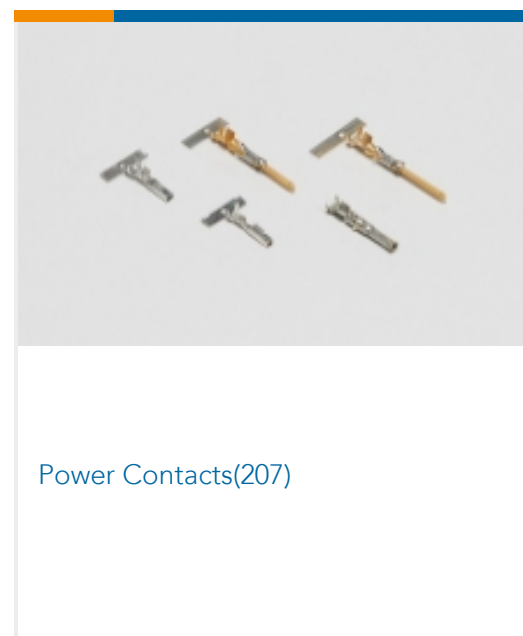
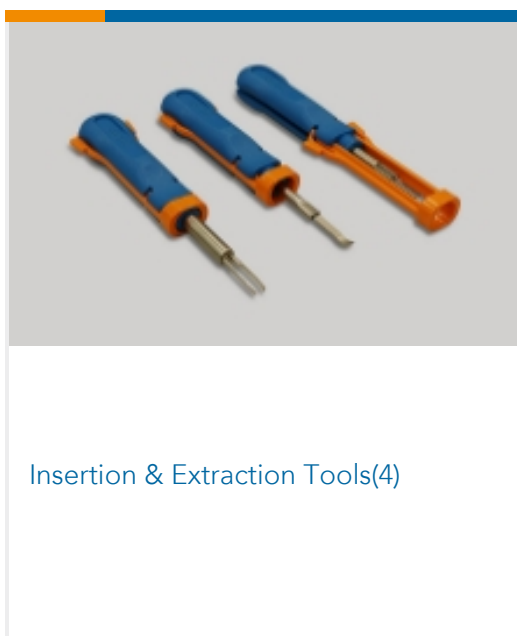
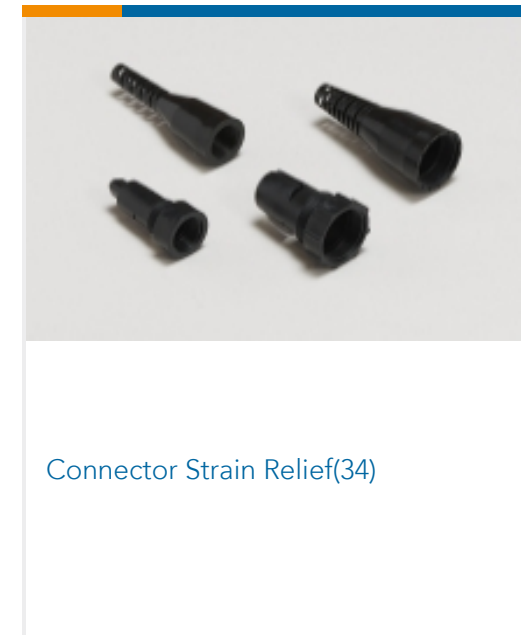
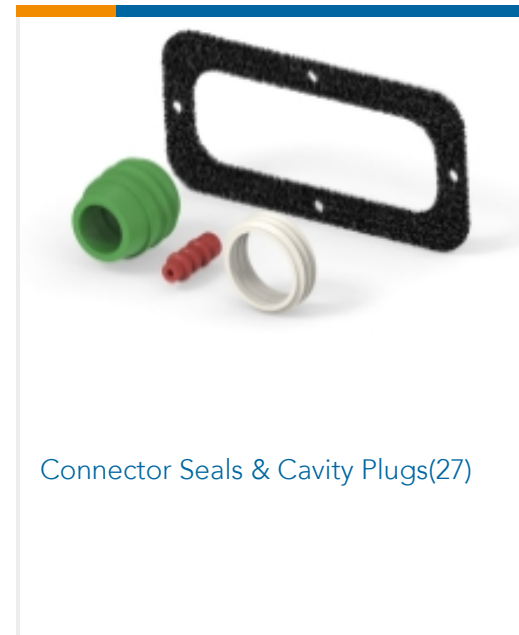
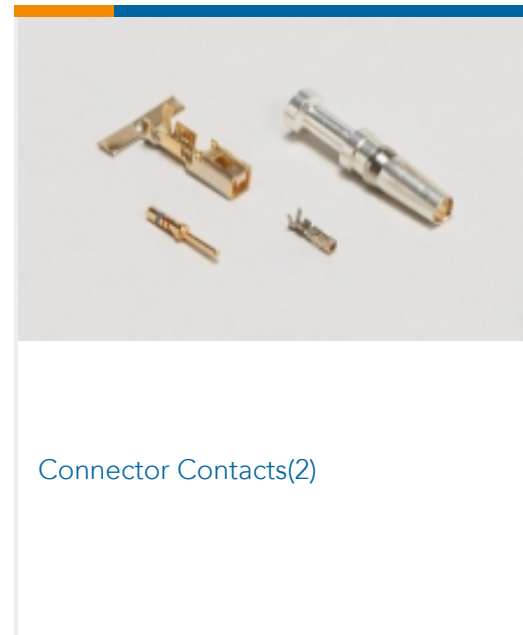
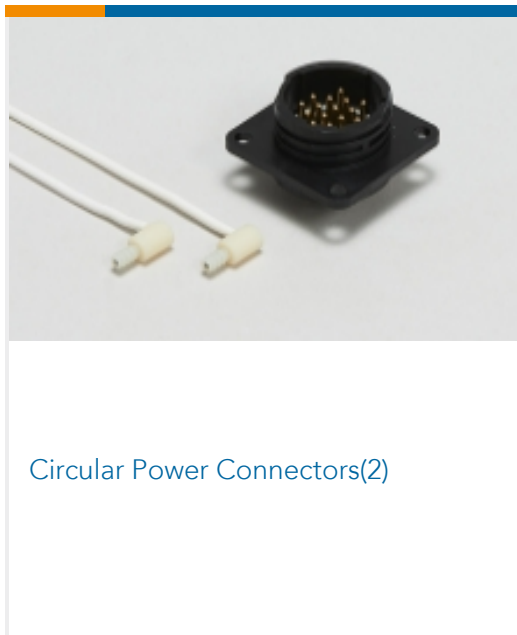
numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the 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

 <p>TE Part # 350735-1 12P UMNL PLUG HSG</p>	 <p>TE Part # 770022-1 12P UMNLII IN-LNE PLUG HSG KIT</p>	 <p>TE Part # 350812-1 STR/REL CLAMP UMNL</p>	 <p>TE Part # 794279-1 12P UMNL INTERFACE SEAL</p>
 <p>TE Part # 926681-3 12P UNIV.CAP HSG.</p>	 <p>TE Part # 640717-1 12P UMNL STR/REL</p>	 <p>TE Part # 794280-1 12P UMNL WIRE SEAL</p>	 <p>TE Part # 1-350590-0 STR/REL CLAMP NATL</p>
 <p>TE Part # 926681-1 UNIV.M-N-L.CAP HSG.</p>	 <p>TE Part # 826852-3 10P UN-MNL BU SOCK</p>	 <p>TE Part # 1-640723-0 12P UMNL STR/REL &amp; INSRT NATL</p>	 <p>TE Part # 1586854-1 12P UMNL CAP HSG, GW</p>
 <p>TE Part # 1863006-1 12P UMNL CAP HSG</p>	 <p>TE Part # 643255-1 12P UMNL ASSY MOD HSG VO</p>	 <p>TE Part # 794727-1 12P UMNL CAP HSG NATL, BLACK</p>	 <p>TE Part # 2178620-1 UMNL 12 WAY CAP HOUSING</p>

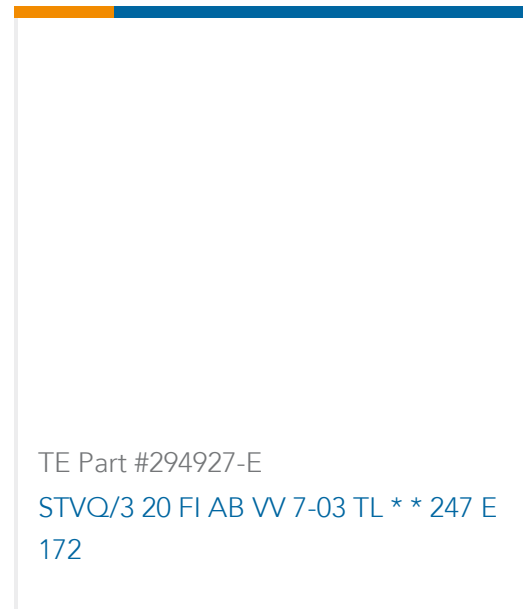


Also in the Series | **Universal MATE-N-LOK**



Customers Also Bought





## Documents

### Product Drawings

[12P UMNL HDR ASSY PC 94VO](#)

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### CAD Files

[3D PDF](#)

3D

Customer View Model

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### Datasheets & Catalog Pages

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

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### Product Specifications

[Application Specification](#)

English

### Product Environmental Compliance

[MD\\_350829-1\\_02272019213\\_dmtec](#)

English

[MD\\_350829-1\\_02272019213\\_dmtec](#)

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### Instruction Sheets

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

English