

284159-1 ✓ ACTIVE

AMP | Multilock Connector System

TE Internal #: 284159-1

Housing for Female Terminals, Wire-to-Board, 12 Position, 3.5 mm / 5 mm [.138 in / .197 in] Centerline, Natural, Multilock Connector System

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Connectors > Automotive Connectors > Automotive Housings > MULTILOCK, CONNECTOR HOUSING



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

Number of Positions: **12**

Connector & Housing Type: **Housing for Female Terminals**

Centerline (Pitch): **3.5 mm, 5 mm [.138 in, .197 in]**

Sealable: **No**

[All MULTILOCK, CONNECTOR HOUSING \(393\)](#)

## Features

### Product Type Features

Mixed & Hybrid Connector	Yes
Connector Shape	Rectangular
Connector System	Wire-to-Board
Connector & Housing Type	Housing for Female Terminals
Sealable	No
Connector & Contact Terminates To	Wire & Cable
Primary Locking Feature	On the Terminal

### Configuration Features

Number of Positions	12
Number of Rows	2

### Electrical Characteristics

Operating Voltage	24 VDC
Nominal Voltage Architecture	12 V, 24 V

### Body Features

Cable Exit Angle	90°
Primary Product Color	Natural



### Contact Features

Contact Size	1.8mm, 2.8mm
Contact Type	Receptacle
Mating Tab Width	1.8 mm, 2.8 mm [.071 in][.11 in]
Contact Current Rating (Max)	7.5 A, 15 A, 35 A

### Mechanical Attachment

Terminal Position Assurance	Yes
Strain Relief	Without
Mating Alignment Type	Polarized
Mating Alignment	With
Connector Mounting Type	Cable Mount (Free-Hanging)

### Housing Features

Housing Material	PA GF
Centerline (Pitch)	3.5 mm, 5 mm [.138 in][.197 in]

### Dimensions

Connector Height	34 mm [1.339 in]
Product Width	20.8 mm [.819 in]
Product Length	40.2 mm [1.583 in]
Row-to-Row Spacing	5.3 mm [.209 in]

### Usage Conditions

Operating Temperature (Max)	70 °C, 75 °C, 80 °C, 85 °C [158 °F][167 °F] [176 °F][185 °F]
Operating Temperature Range	-30 – 105 °C [-22 – 221 °F]

### Operation/Application

Circuit Application	Power & Signal
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### Packaging Features

Packaging Quantity	1000
Packaging Method	Bag

### Other

Serviceable	No
Connector Position Assurance Capable	No



## 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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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>

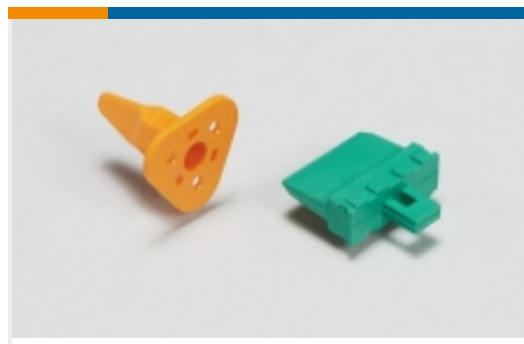
## Compatible Parts

<p>TE Part # CAT-M9194-T273 MULTILOCK, RECEPTACLE AND TAB</p>	<p>TE Part # CAT-T4827-T273 TIMER, RECEPTACLE AND TAB</p>	<p>TE Part # 284160-1 COVER FOR 6+6 POS. HYBRID CONN</p>	<p>TE Part # CAT-LMPH9507 Low &amp; Medium Power Header</p>
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## Also in the Series | Multilock Connector System



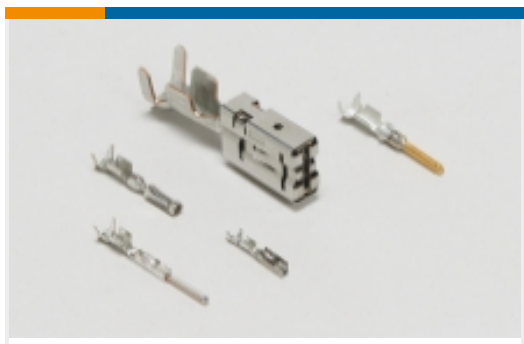
Automotive Connector Caps & Covers (10)



Automotive Connector Locks & Position Assurance (3)



Automotive Housings (445)



Automotive Terminals (118)



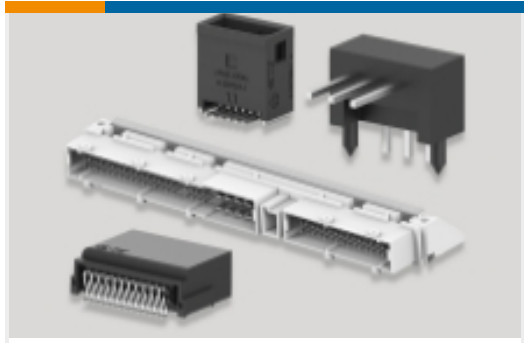
Connector Seals & Cavity Plugs (2)



Insertion & Extraction Tools (6)

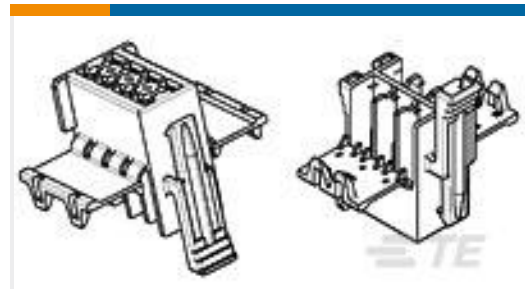


Other Automotive Connector Accessories (12)

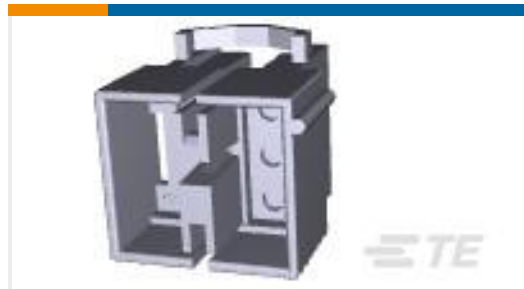


PCB Headers & Receptacles (134)

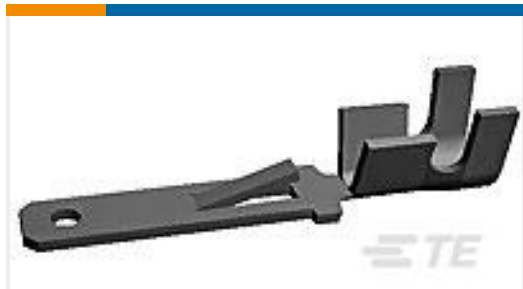
## Customers Also Bought



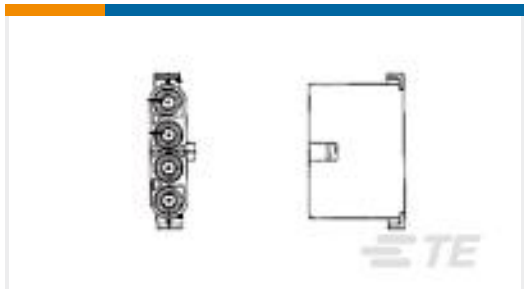
TE Part #929504-1  
2X 2P JUN POW TIMGH



TE Part #1-480340-0  
06P CMNL CAP HSG F/H NATL



TE Part #160645-2  
FF 250 TAB 22-18AWG TPBR



TE Part #794117-1  
04P .156 MNL CAP FREE-HANGING



TE Part #1423674-9  
W54-XB1A4A10-20=CKTBKR,THERM,P



TE Part #962930-1  
TIMER, RECEPTACLE AND TAB



TE Part #4-2112162-1  
21POS,TAB2.8X0.8,TABHSG,CODE D, ASSY,SLD



TE Part #9-1411325-5  
2X3 POS GET-FEMALE CONNECTOR U



TE Part #2-142183-1  
MIC RECEPT MKI

## Documents



**Product Drawings**

**12 POS. 070 RCPT.HSG. & SEC.LO**

English

**CAD Files**

**Customer View Model**

**ENG\_CVM\_CVM\_284159-1\_B.2d\_dxf.zip**

English

**3D PDF**

3D

**Customer View Model**

**ENG\_CVM\_CVM\_284159-1\_B.3d\_igs.zip**

English

**Customer View Model**

**ENG\_CVM\_CVM\_284159-1\_B.3d\_stp.zip**

English

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

**Datasheets & Catalog Pages**

**MULTILOCK Connector System**

English

**Product Specifications**

**Product Specification**

English

**6+6 POS. HEADER AND CONNECTOR FOR STEERING COLUMN DEVICE**

English

**HEADERS AND CONNECTORS FOR DOOR JUNCTION SYSTEM**

English

**Product Specification**

English