

9-966140-4 ✓ ACTIVE

AMP | AMP MCP Connector System

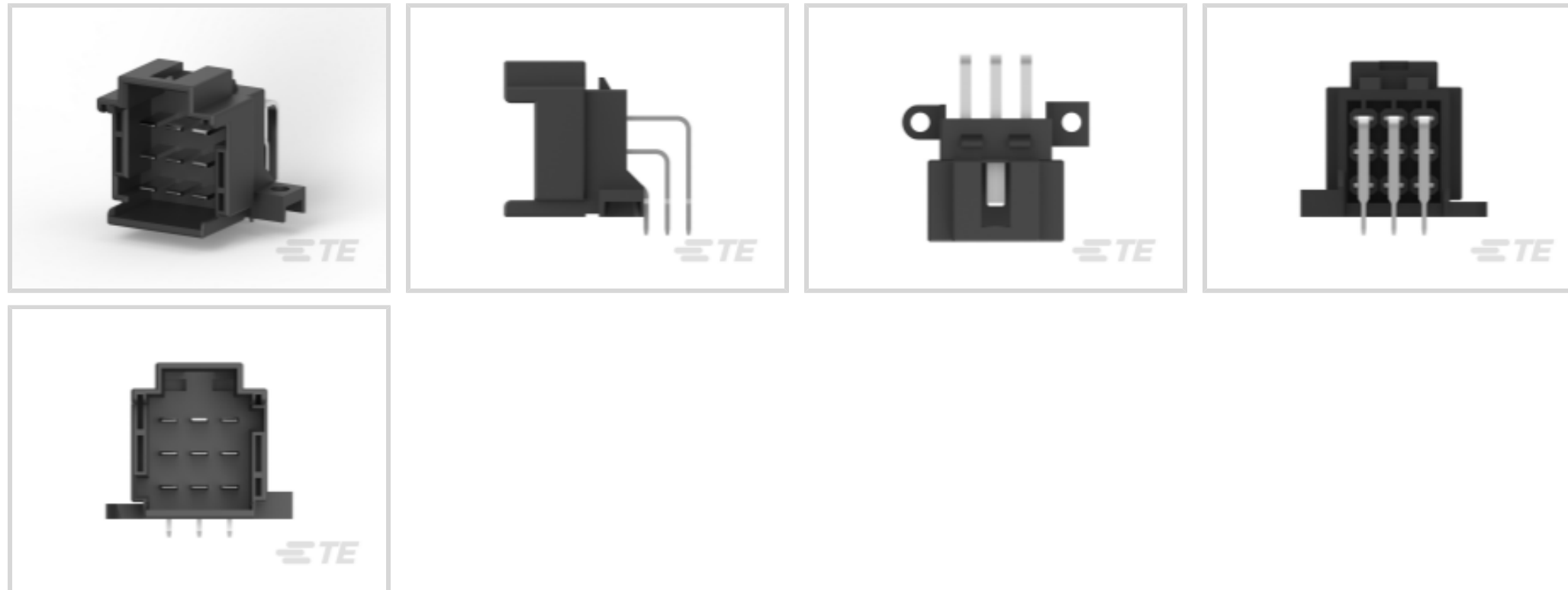
TE Internal #: 9-966140-4

PCB Mount Header, Horizontal, Wire-to-Board, 9 Position, .138 in [3.5 mm] Centerline, Fully Shrouded, Tin (Sn), AMP MCP Connector System

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles > AMP MCP UNSEALED HEADERS



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

Number of Positions: **9**

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

Sealable: **No**

PCB Mount Orientation: **Horizontal**

[All AMP MCP UNSEALED HEADERS \(17\)](#)

## Features

### Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Hybrid Header                     | No                    |
| Connector & Housing Shape         | Rectangular           |
| PCB Connector Assembly Type       | PCB Mount Header      |
| Header Type                       | Fully Shrouded        |
| Connector System                  | Wire-to-Board         |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

### Configuration Features

|                            |            |
|----------------------------|------------|
| Number of Signal Positions | 9          |
| Number of Positions        | 9          |
| PCB Mount Orientation      | Horizontal |
| Number of Rows             | 3          |



### Electrical Characteristics

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

### Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
| Connector Code        | A     |

### Contact Features

|                                      |                 |
|--------------------------------------|-----------------|
| Contact Size                         | 3mm             |
| Contact Type                         | Tab             |
| Mating Tab Width                     | 5.8 mm[.228 in] |
| Mating Tab Thickness                 | .8 mm[.031 in]  |
| Contact Mating Area Plating Material | Tin (Sn)        |

### Termination Features

|   |                       |
|---|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---|-----------------------|

### Mechanical Attachment

|                          |                   |
|--------------------------|-------------------|
| Mounting Holes           | With              |
| Mating Retention         | With              |
| Mating Alignment         | With              |
| PCB Mount Alignment      | Without           |
| Panel Mount Feature      | With              |
| PCB Mount Retention      | Without           |
| PCB Mount Retention Type | Solder Tail       |
| Mating Retention Type    | Locking Interface |
| Connector Mounting Type  | Panel Mount       |

### Housing Features

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 3.5 mm[.138 in] |
|--------------------|-----------------|

### Dimensions

|                         |                   |
|-------------------------|-------------------|
| Connector Length        | 31 mm[1.221 in]   |
| Connector Width         | 20.3 mm[.791 in]  |
| Profile Height from PCB | 26.2 mm[1.031 in] |

### Usage Conditions

|                             |   |
|-----------------------------|---|
| Operating Temperature (Max) | 65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 |
|-----------------------------|---|



°C[149 °F][158 °F][167 °F][176 °F][185 °F]  
[194 °F][212 °F]

Operating Temperature Range

-40 – 100 °C[-40 – 212 °F]

### Operation/Application

Shielded

No

Circuit Application

Signal

### Industry Standards

UL Flammability Rating

UL 94HB

### Packaging Features

Packaging Type

Tray

Packaging Quantity

168

### 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)  
Candidate List Declared Against: JUNE 2022 (224)  
Does not contain REACH SVHC

Halogen Content

BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.

Solder Process Capability

Wave solder capable to 260°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

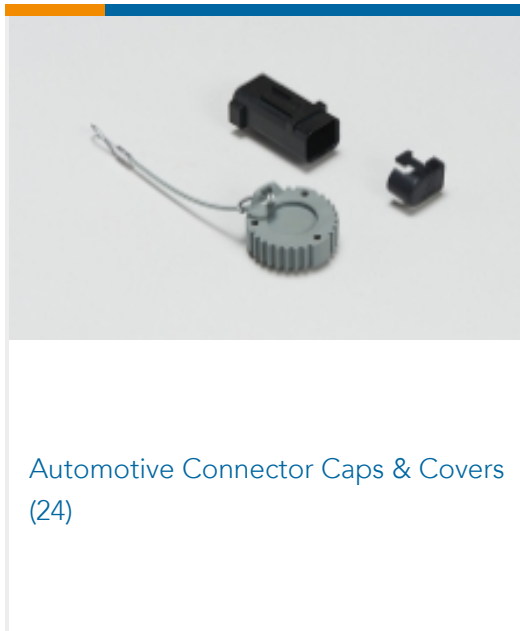


TE Part # CAT-T4827-CH8172  
TIMER, CONNECTOR HOUSING

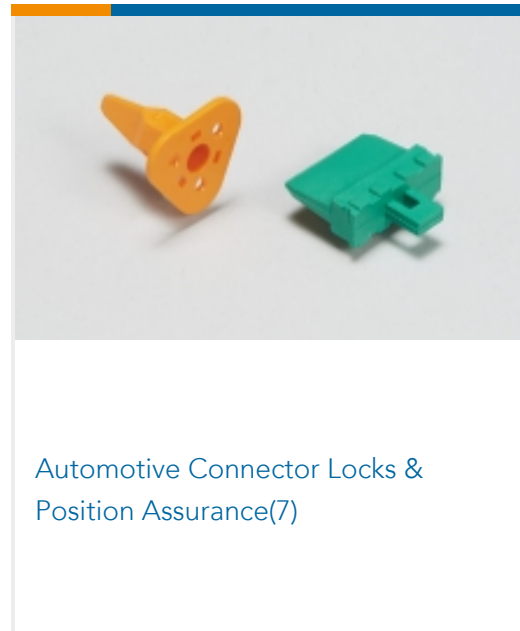


TE Part # CAT-AM705-CH8173  
AMP MCP, UNSEALED CONNECTOR HOUSING

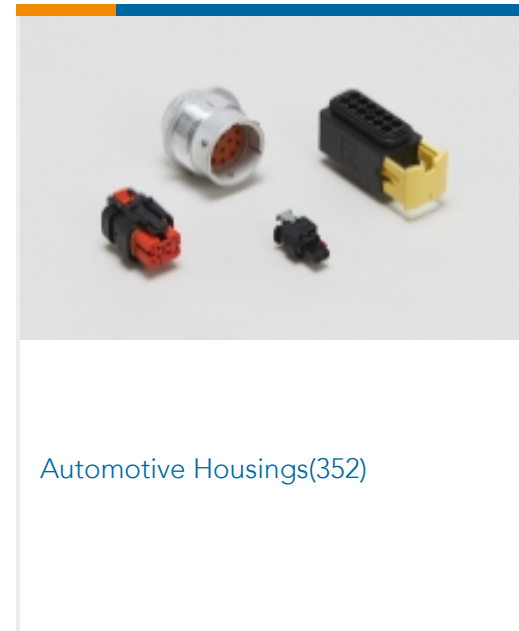
### Also in the Series | AMP MCP Connector System



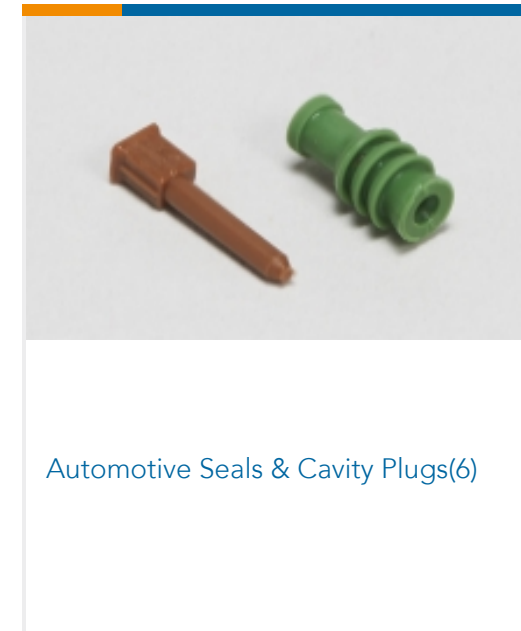
Automotive Connector Caps & Covers (24)



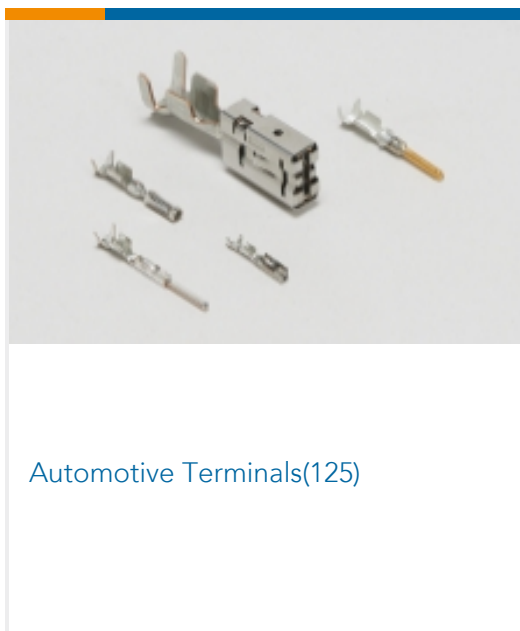
Automotive Connector Locks & Position Assurance(7)



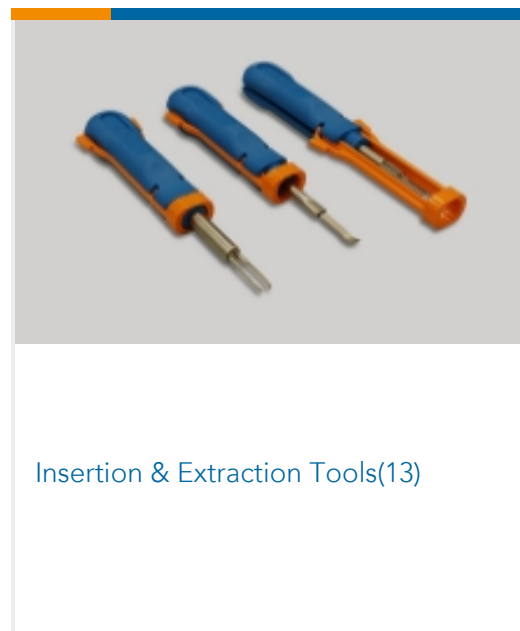
Automotive Housings(352)



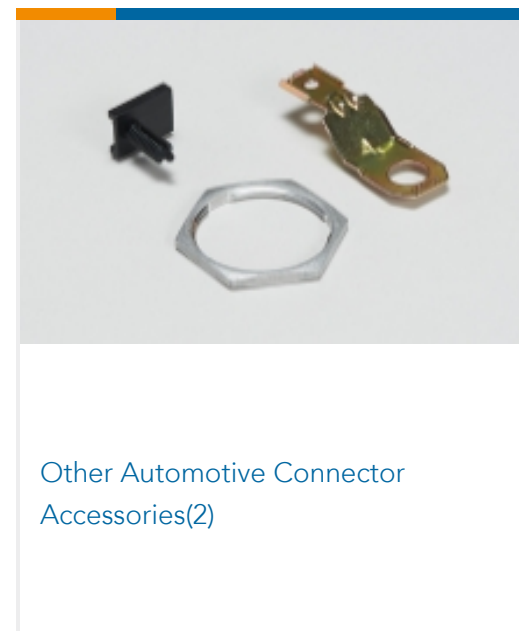
Automotive Seals & Cavity Plugs(6)



Automotive Terminals(125)



Insertion & Extraction Tools(13)



Other Automotive Connector Accessories(2)



PCB Headers & Receptacles(29)

### Customers Also Bought



TE Part #103669-3  
04 MTE HDR SRST LATCH W/HLDWN



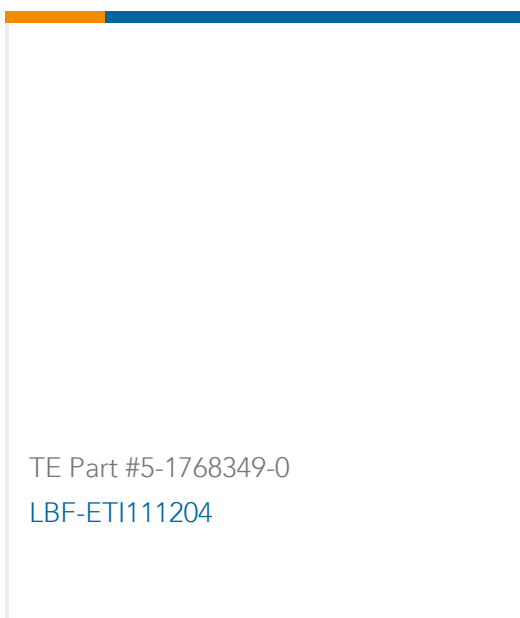
TE Part #953118-4  
SIGNAL HEADER



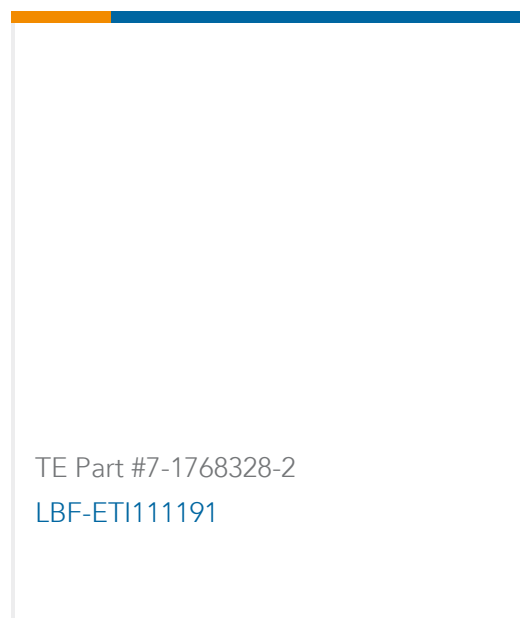
TE Part #9-966140-6  
AMP MCP UNSEALED HEADERS



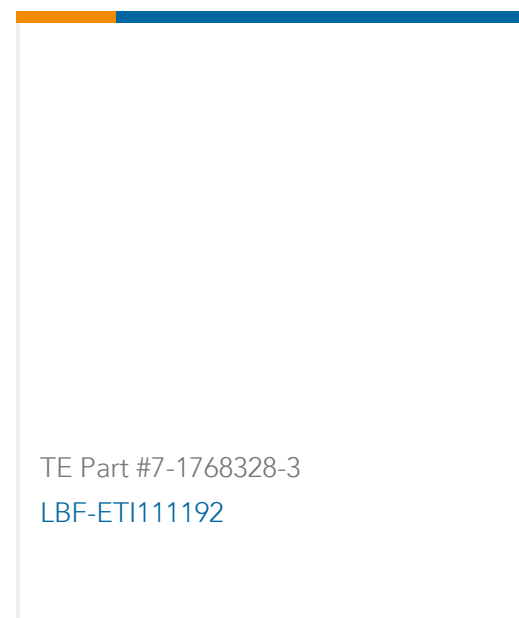
TE Part #2286547-1  
HSD,HDR ASSY,180DEG,COD A



TE Part #5-1768349-0  
LBF-ETI111204



TE Part #7-1768328-2  
LBF-ETI111191



TE Part #7-1768328-3  
LBF-ETI111192



## Documents

### Product Drawings

#### MESSERLEISTE 9P

English

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### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_9-966140-4\\_F.2d\\_dxf.zip](#)

English

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_9-966140-4\\_F.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_9-966140-4\\_F.3d\\_stp.zip](#)

English

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

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### Product Specifications

#### Application Specification

English

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### Product Environmental Compliance

#### TE Material Declaration

English