

174975-2 ✓ ACTIVE

## Multilock Connector System

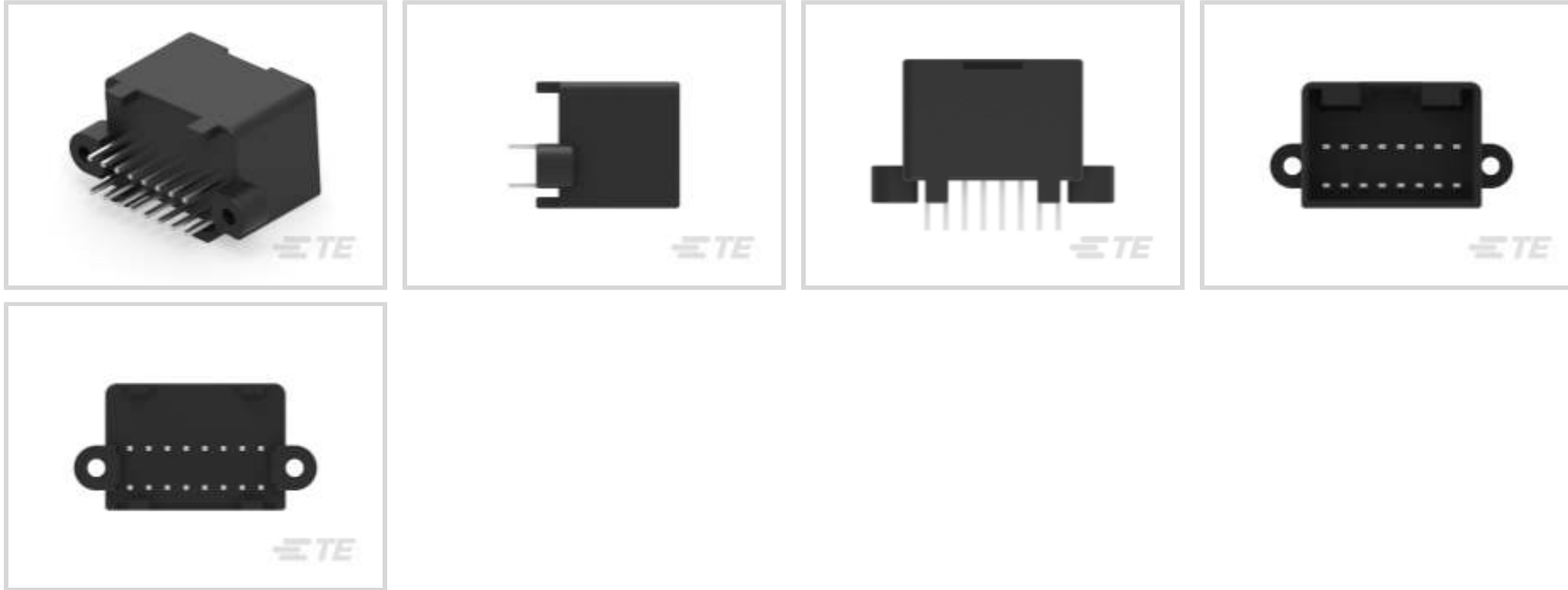
TE Internal #: 174975-2

PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 2.5 mm [.098 in] Centerline, Fully Shrouded, Tin, Multilock Connector System

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Connectors > PCB Connectors > PCB Headers & Receptacles > Signal Header



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

Number of Positions: **16**

Centerline (Pitch): **2.5 mm [.098 in]**

Sealable: **No**

PCB Mount Orientation: **Vertical**

[All Signal Header \(446\)](#)

## Features

### Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Hybrid Header                     | No                    |
| Connector 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 Sections         | 1        |
| Number of Signal Positions | 16       |
| Number of Positions        | 16       |
| PCB Mount Orientation      | Vertical |
| Number of Rows             | 2        |



### Electrical Characteristics

|                              |        |
|------------------------------|--------|
| Voltage Rating (Max)         | 12 VDC |
| Nominal Voltage Architecture | 12 V   |
| Operating Voltage            | 12 VDC |

### Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

### Contact Features

|                                      |                  |
|--------------------------------------|------------------|
| Contact Size                         | 1mm              |
| Contact Type                         | Tab              |
| Mating Tab Width                     | 1 mm [.039 in]   |
| Mating Tab Thickness                 | .64 mm [.025 in] |
| Contact Mating Area Plating Material | Tin              |

### 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   | Without           |
| PCB Mount Retention   | Without           |
| Mating Retention Type | Locking Interface |

### Housing Features

|                    |                  |
|--------------------|------------------|
| Centerline (Pitch) | 2.5 mm [.098 in] |
|--------------------|------------------|

### Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Connector Length            | 16.9 mm [.665 in] |
| Connector Width             | 32.5 mm [1.28 in] |
| PCB Thickness (Recommended) | 1.6 mm [.063 in]  |
| Profile Height from PCB     | 19.2 mm [.756 in] |

### Usage Conditions

|                             |   |
|-----------------------------|---|
| Operating Temperature (Max) | 65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C [149 °F][158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F] |
|-----------------------------|---|



|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -30 – 105 °C[-22 – 221 °F] |
|-----------------------------|----------------------------|

### Operation/Application

|                     |        |
|---------------------|--------|
| Shielded            | No     |
| Circuit Application | Signal |

### Industry Standards

|                        |         |
|------------------------|---------|
| UL Flammability Rating | UL 94HB |
|------------------------|---------|

### Packaging Features

|                    |      |
|--------------------|------|
| Packaging Type     | Tube |
| Packaging Quantity | 100  |

### Other

|                  |        |
|------------------|--------|
| Interface Number | 174046 |
|------------------|--------|

## 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)<br>Candidate List Declared Against: JUNE 2023 (235)<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 lead free process capable   |

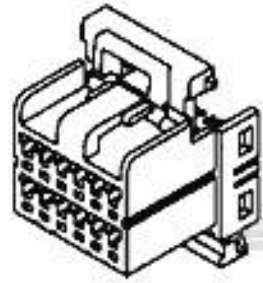
#### Product Compliance Disclaimer

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




TE Part # CAT-M9194-CH8172  
MULTILOCK, CONNECTOR HOUSING




TE Part # 174046-4  
040 MLC PLUG HSG 16P GREEN

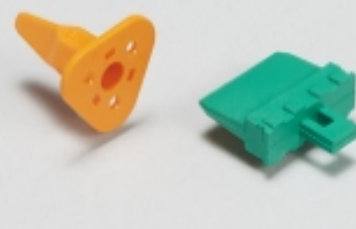
## Also in the Series | Multilock Connector System




Automotive Connector Caps & Covers (17)



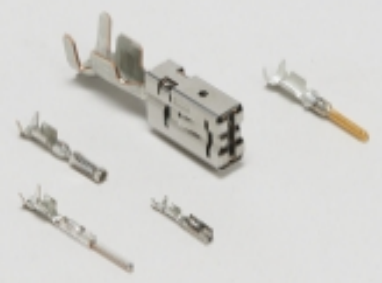
Automotive Connector EMC Shielding (1)




Automotive Connector Locks & Position Assurance(2)




Automotive Housings(603)




Automotive Terminals(141)



Connector Seals & Cavity Plugs(2)



Insertion & Extraction Tools(6)



Other Automotive Connector Accessories(14)

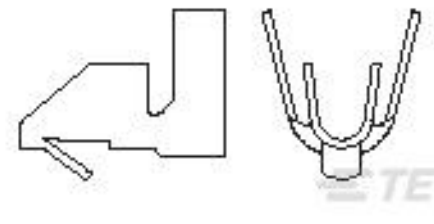


PCB Headers & Receptacles(142)

## Customers Also Bought



TE Part #485030-1  
RING 18-14 AWG TPBR



TE Part #3-770565-1  
MINI AMP-IN 22-18 AWG SN/BRASS LF



TE Part #292228-6  
1.5 MINI CT SGL H SMT W/O BOSS



TE Part #DT06-12SB-CE05  
PLG, 12P, BLK, E, SEAL RET, ENH KEY, CAP, B



TE Part #3-966140-6  
Low & Medium Power Header



TE Part #175977-2  
Signal Header



TE Part #172243-1  
DLI 12POS CAP ASSY H TIN

## Documents

### Product Drawings

#### 040 MLC CAP ASSY V 16P

English

### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_174975-2\\_D.2d\\_dxf.zip](#)

English

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_174975-2\\_D.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_174975-2\\_D.3d\\_stp.zip](#)

English

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

### Product Specifications

#### Product Specification

Japanese

#### Product Specification

Japanese

### Instruction Sheets

#### Instruction Sheet (non U.S.)

English

174975-2

PCB Mount Header, Vertical, Wire-to-Board, 16 Position, 2.5 mm [.098 in] Centerline,  
Fully Shrouded, Tin, Multilock Connector System



## 040 SERIES MULTI-LOCK CONNECTOR

English