

1-175976-2 **×** OBSOLETE

## Multilock Connector System

TE Internal #: 1-175976-2

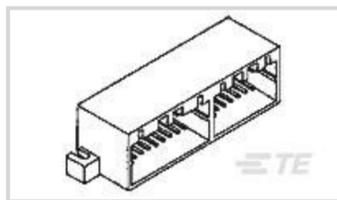
TE Internal Description: 040 MLC MK-2 CAP ASSY 28P (H)

SIGNAL HEADER

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Connectors > PCB Connectors > PCB Headers & Receptacles > SIGNAL HEADER



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

Number of Positions: **28**

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

Sealable: **No**

PCB Mount Orientation: **Horizontal**

[All SIGNAL HEADER \(413\)](#)

## 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	2
Number of Signal Positions	28
Number of Positions	28
PCB Mount Orientation	Horizontal
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
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### 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	Gold

### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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### 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]
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### Dimensions

Connector Length	22.5 mm[.886 in]
Connector Width	53.5 mm[2.106 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Profile Height from PCB	16.9 mm[.665 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
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### Packaging Features

Packaging Type	Tube
Packaging Quantity	80

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Not Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JAN 2022 (223) SVHC > Threshold: Pb (13% in Component Part) <b>Article Safe Usage Statements:</b> Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
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 240°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>

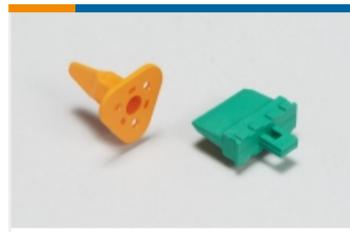
Also in the Series | [Multilock Connector System](#)



Automotive Connector Caps & Covers (16)



Automotive Connector EMC Shielding (1)



Automotive Connector Locks & Position Assurance(2)



Automotive Housings(572)



Automotive Seals & Cavity Plugs(2)



Automotive Terminals(140)



Insertion & Extraction Tools(6)



Other Automotive Connector Accessories(9)



PCB Headers & Receptacles(127)

## Documents

### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-175976-2\\_H.2d\\_dxf.zip](#)

English

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-175976-2\\_H.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1-175976-2\\_H.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



**Instruction Sheets**

**Customer Manual (non U.S.)**

Japanese

**.040 Series Multilock I/O Connector Mark II**

Japanese

**Customer Manual (non U.S.)**

Japanese

**.040 Series, Multilock I/O Connector, Mark II**

Japanese