



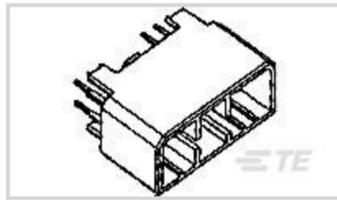
**Multilock Connector System**

TE Internal #: 1-174960-6

PCB Mount Header, Vertical, Wire-to-Board, 20 Position, 3.5 mm [.138 in] Centerline, Fully Shrouded, Tin, Multilock Connector System

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Connectors > PCB Connectors > PCB Headers & Receptacles > LOW & MEDIUM POWER HEADER



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

Number of Positions: **20**

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

Sealable: **No**

PCB Mount Orientation: **Vertical**

**All LOW & MEDIUM POWER HEADER (152)**

**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	20
Number of Positions	20
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	Gray
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### Contact Features

Contact Size	1.8mm
Contact Type	Tab
Mating Tab Width	1.8 mm[.071 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
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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)	3.5 mm[.138 in]
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### Dimensions

Connector Length	15.8 mm[.622 in]
Connector Width	46.7 mm[1.839 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Profile Height from PCB	23.5 mm[.925 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 94V-0
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### Packaging Features

Packaging Type	Tube
Packaging Quantity	60

### 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	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 240°C

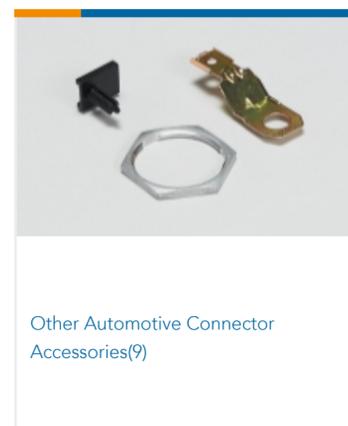
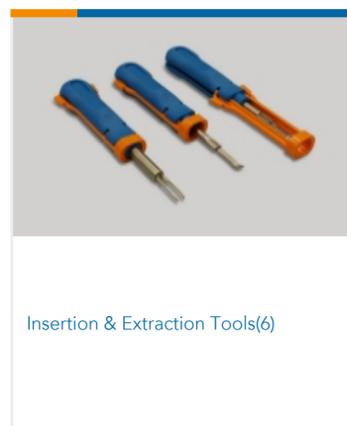
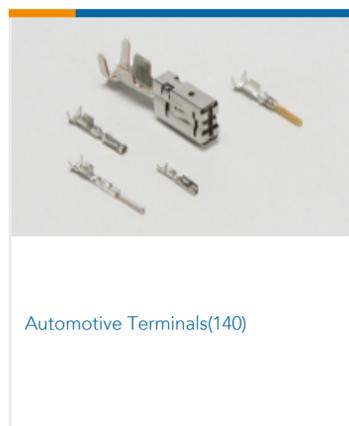
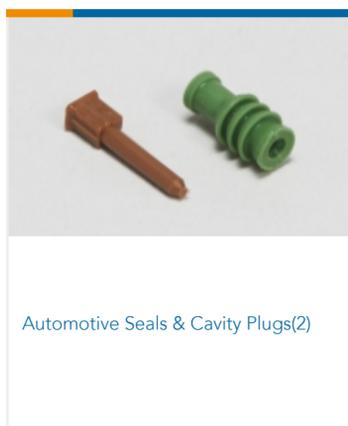
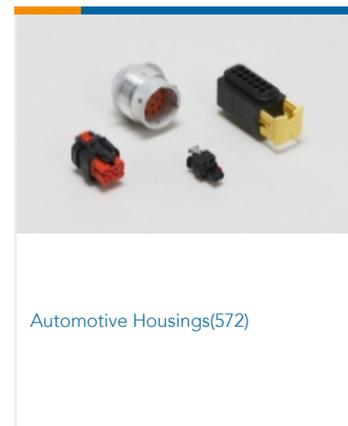
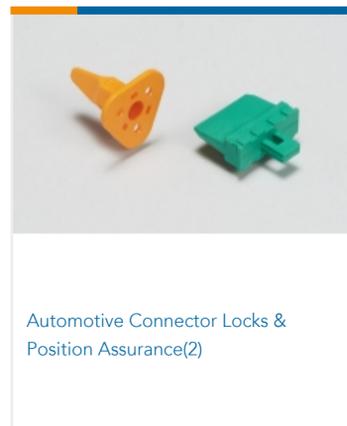
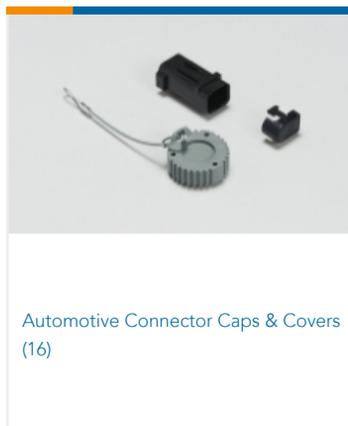
#### Product Compliance Disclaimer

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>

### Compatible Parts



## Also in the Series | Multilock Connector System



## Documents

### Product Drawings

070 MLC CAP ASSY V 20P GRAY

Japanese

### CAD Files

3D PDF

3D

Customer View Model



[ENG\\_CVM\\_CVM\\_1-174960-6\\_G.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_1-174960-6\\_G.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_1-174960-6\\_G.3d\\_stp.zip](#)

English

**3D PDF**

English

**Customer View Model**

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English

**Customer View Model**

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English

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## Product Specifications

**Product Specification**

Japanese

**.070 Series Multilock I/O Connector (MLC) MK-II for P.C.B.**

Japanese

**Product Specification**

Japanese

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## Instruction Sheets

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

English

**070 MULTI-LOCK CONNECTOR**

English