



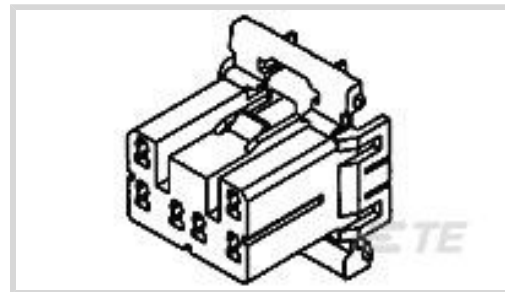
AMP | Multilock Connector System

TE Internal #: 174952-7

Housing for Female Terminals, Wire-to-Wire, 20 Position, .138 in / .217 in [5.5 mm / 3.5 mm] Centerline, Yellow, Signal, Multilock Connector System

[View on TE.com >](#)

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



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

Mating Tab Width: **1.8 mm [ .071 in ]**

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

Number of Positions: **20**

Centerline (Pitch): **3.5 mm, 5.5 mm [ .138 in, .217 in ]**

[All MULTILOCK, CONNECTOR HOUSING \(576\)](#)

## Features

### Product Type Features

|                           |                              |
|---------------------------|------------------------------|
| Connector & Housing Shape | Rectangular                  |
| Connector & Housing Type  | Housing for Female Terminals |
| Connector System          | Wire-to-Wire                 |
| Sealable                  | No                           |
| Hybrid Connector          | No                           |
| Primary Locking Feature   | Integrated in Housing        |

### Configuration Features

|                     |    |
|---------------------|----|
| Number of Positions | 20 |
| Number of Rows      | 2  |

### Electrical Characteristics

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

### Body Features

|                       |        |
|-----------------------|--------|
| Cable Exit Angle      | 180°   |
| Body Material         | PBT    |
| Primary Product Color | Yellow |



### Contact Features

|                  |                 |
|------------------|-----------------|
| Contact Size     | 1.8mm           |
| Contact Type     | Receptacle      |
| Mating Tab Width | 1.8 mm[.071 in] |

### Mechanical Attachment

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

### Housing Features

|                    |                                  |
|--------------------|----------------------------------|
| Centerline (Pitch) | 3.5 mm, 5.5 mm[.138 in][.217 in] |
|--------------------|----------------------------------|

### Dimensions

|                    |  |
|--------------------|--|
| Product Width      | 45.8 mm[1.803 in]                                  |
| Product Length     | 21.6 mm[.85 in]                                    |
| Product Height     | 26.05 mm[1.026 in]                                 |
| Row-to-Row Spacing | 10.7 mm, 2.54 mm, 8.31 mm[.1 in][.327 in][.421 in] |

### Usage Conditions

|                             |   |
|-----------------------------|---|
| Operating Temperature (Max) | 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C[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

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

### Industry Standards

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

### Packaging Features

|                    |    |
|--------------------|----|
| Packaging Quantity | 50 |
|--------------------|----|

### Other

|                                      |     |
|--------------------------------------|-----|
| Serviceable                          | Yes |
| Connector Position Assurance Capable | No  |



## Product Compliance

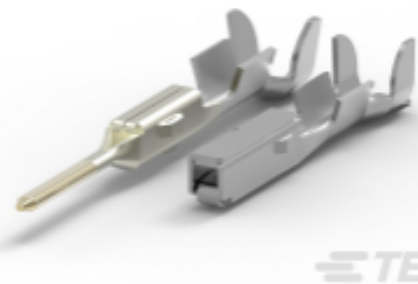
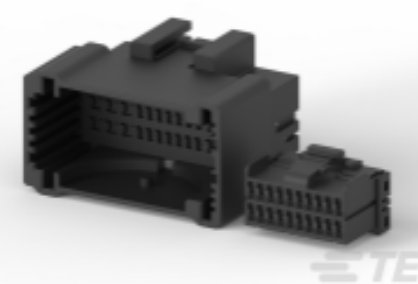


[For compliance documentation, visit the product page on TE.com>](#)

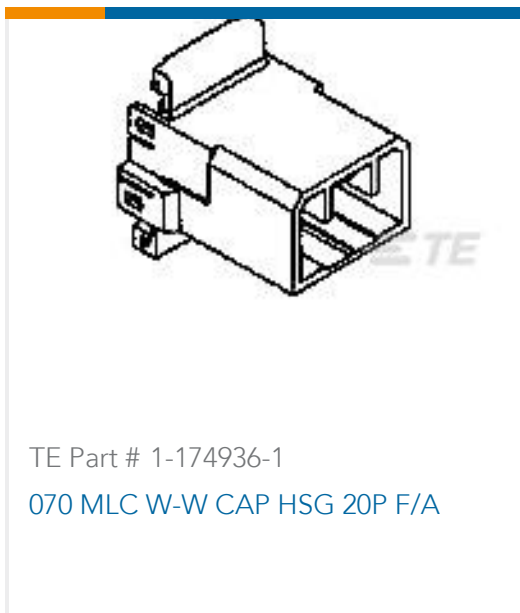
|   |  |
|---|--|
| EU RoHS Directive 2011/65/EU                  | Compliant  |
| EU ELV Directive 2000/53/EC                   | Compliant  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold  |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2022 (224)<br>Candidate List Declared Against: JAN 2022 (223)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| Halogen Content                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.   |
| Solder Process Capability                     | Not reviewed for solder process capability   |

### Product Compliance Disclaimer

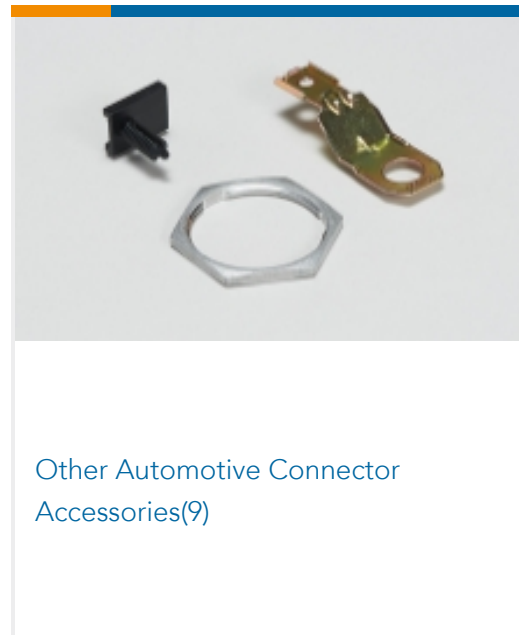
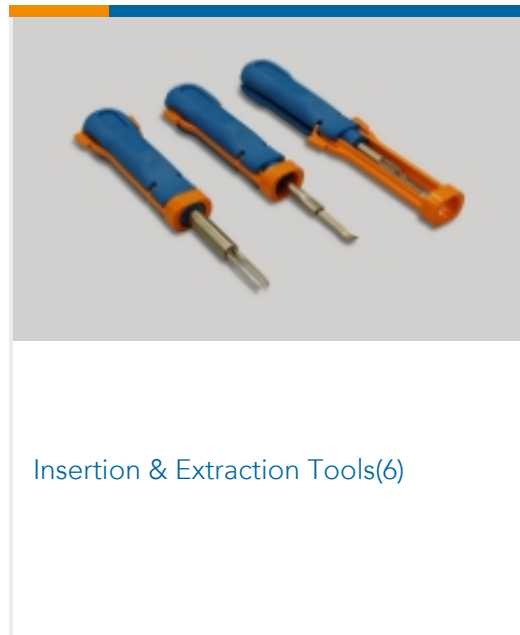
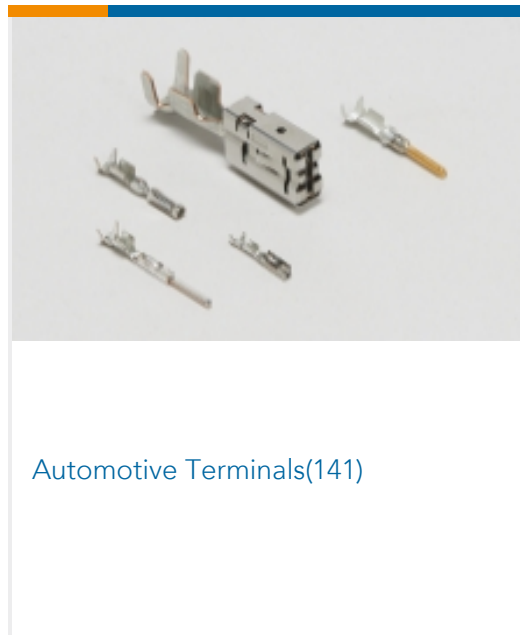
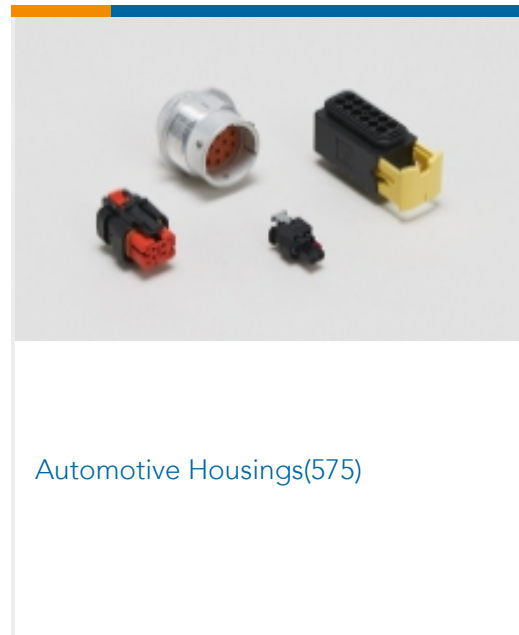
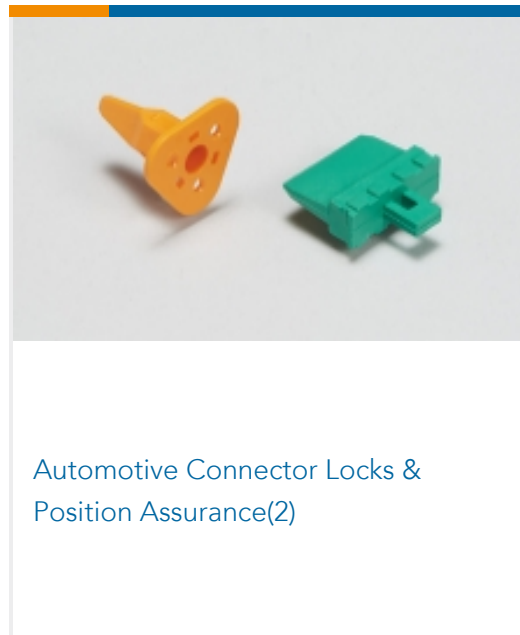
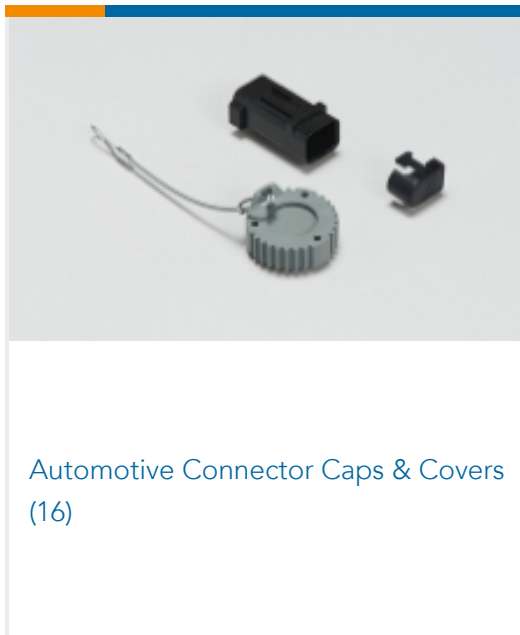
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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<br/>MULTILOCK, RECEPTACLE AND TAB</p> |  <p>TE Part # CAT-M9194-CH8172<br/>MULTILOCK, CONNECTOR HOUSING</p> |  <p>TE Part # CAT-SIGH262<br/>SIGNAL HEADER</p> |  <p>TE Part # CAT-LMPH9507<br/>LOW &amp; MEDIUM POWER HEADER</p> |
|---|--|--|---|



Also in the Series | **Multilock Connector System**



Customers Also Bought





## Documents

### Product Drawings

#### 070 MULTI LOCK PLUG HSG 20P

Japanese

### CAD Files

#### Customer View Model

[ENG\\_CVM\\_174952-7\\_E1.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_174952-7\\_E1.3d\\_stp.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_174952-7\\_E1.2d\\_dxf.zip](#)

English

### 3D PDF

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

Japanese

#### Product Specification

Japanese