

1903614-1 ✓ ACTIVE



## 0.50 Connector System

TE Internal #: 1903614-1

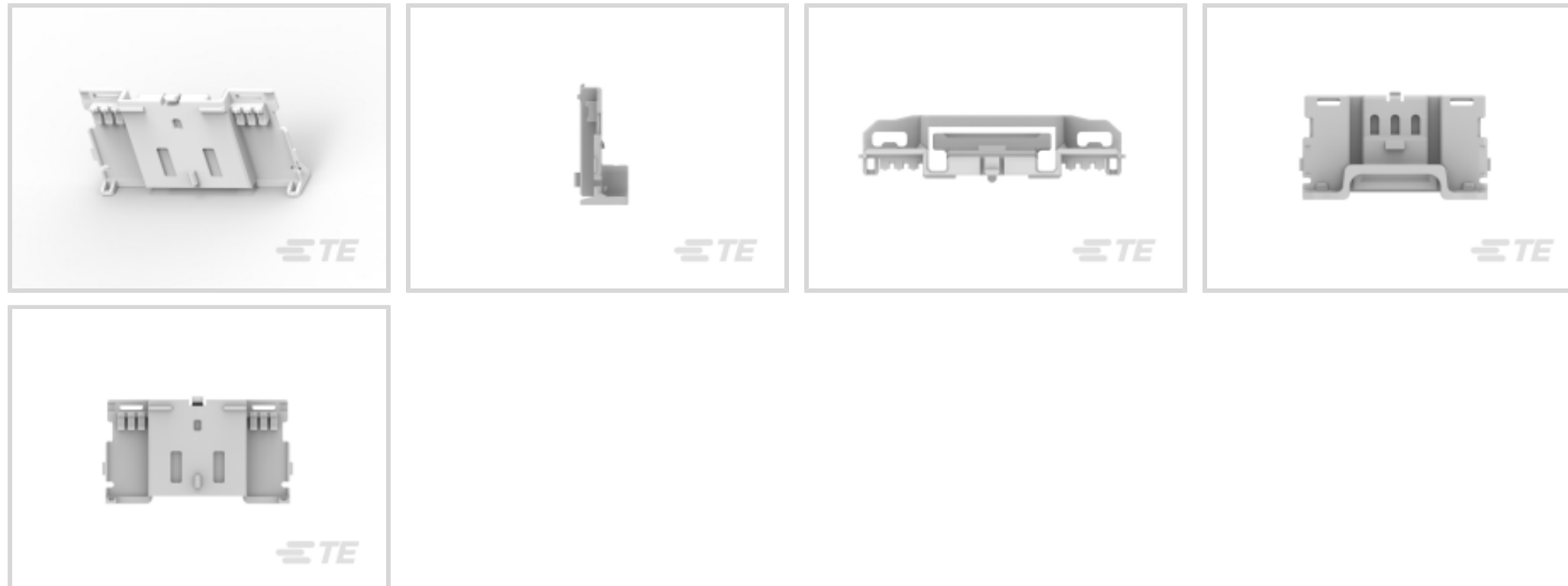
Housing for Female Terminals, Wire-to-Board / Wire-to-Device, 6

Position, .063 in [1.6 mm] Centerline, Natural, Signal, 0.50

Connector System

[View on TE.com >](#)

Connectors > Automotive Connectors > Automotive Housings > 0.50 CONNECTOR SYSTEM, CONNECTOR HOUSING



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

Number of Positions: **6**

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

Centerline (Pitch): **1.6 mm [ .063 in ]**

Sealable: **No**

[All 0.50 CONNECTOR SYSTEM, CONNECTOR HOUSING \(31\)](#)

## Features

### Product Type Features

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

### Configuration Features

|                     |   |
|---------------------|---|
| Number of Positions | 6 |
|---------------------|---|

### Electrical Characteristics

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

### Body Features



|                  |      |
|------------------|------|
| Cable Exit Angle | 180° |
|------------------|------|

|                       |         |
|-----------------------|---------|
| Primary Product Color | Natural |
|-----------------------|---------|

### Contact Features

|              |      |
|--------------|------|
| Contact Size | .5mm |
|--------------|------|

|              |            |
|--------------|------------|
| Contact Type | Receptacle |
|--------------|------------|

|                  |               |
|------------------|---------------|
| Mating Tab Width | .5 mm[.02 in] |
|------------------|---------------|

### Mechanical Attachment

|                             |     |
|-----------------------------|-----|
| Terminal Position Assurance | Yes |
|-----------------------------|-----|

|               |         |
|---------------|---------|
| Strain Relief | Without |
|---------------|---------|

|                       |           |
|-----------------------|-----------|
| Mating Alignment Type | Polarized |
|-----------------------|-----------|

|                  |      |
|------------------|------|
| Mating Alignment | With |
|------------------|------|

|                         |                            |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
|-------------------------|----------------------------|

### Housing Features

|                  |     |
|------------------|-----|
| Housing Material | PBT |
|------------------|-----|

|                    |                 |
|--------------------|-----------------|
| Centerline (Pitch) | 1.6 mm[.063 in] |
|--------------------|-----------------|

### Dimensions

|                  |                 |
|------------------|-----------------|
| Connector Height | 7.5 mm[.295 in] |
|------------------|-----------------|

|               |                   |
|---------------|-------------------|
| Product Width | 29.9 mm[1.177 in] |
|---------------|-------------------|

|                |                  |
|----------------|------------------|
| Product Length | 16.3 mm[.642 in] |
|----------------|------------------|

### Usage Conditions

|                             |  |
|-----------------------------|--|
| Operating Temperature (Max) | 70 °C, 75 °C, 80 °C, 85 °C[158 °F][167 °F]<br>[176 °F][185 °F] |
|-----------------------------|--|

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -30 – 85 °C[-22 – 185 °F] |
|-----------------------------|---------------------------|

### Operation/Application

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

### Industry Standards

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

### Packaging Features

|                  |            |
|------------------|------------|
| Packaging Method | Box & Tray |
|------------------|------------|

### 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 2023 (235)<br>Candidate List Declared Against: JAN 2022 (223)<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 applicable for solder process capability   |

### Product Compliance Disclaimer

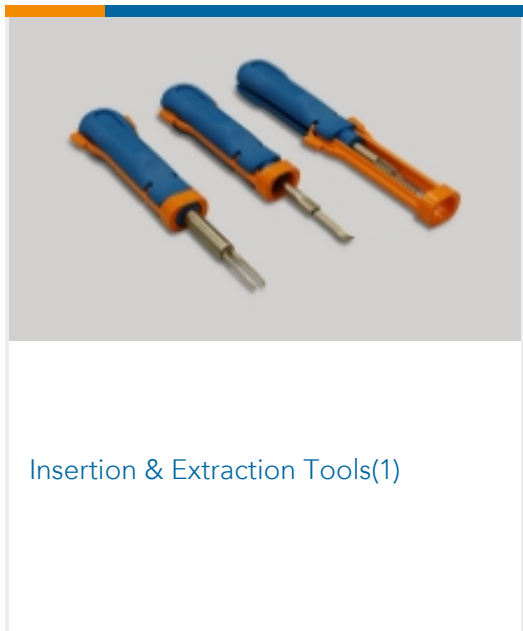
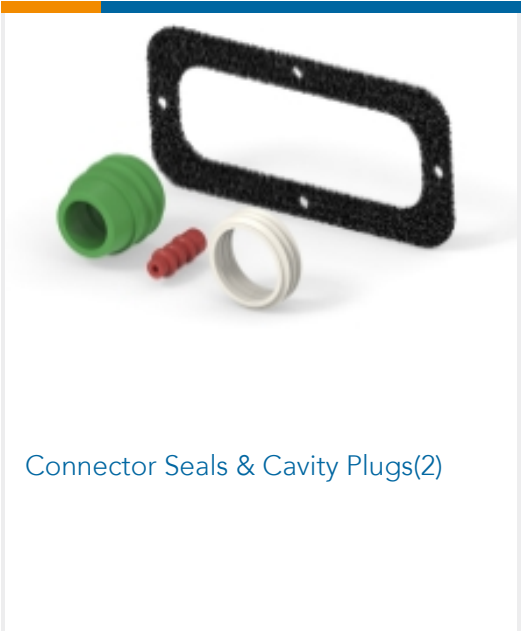
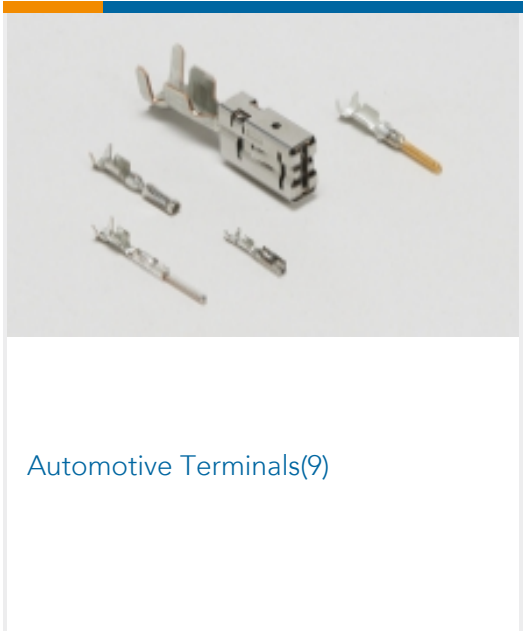
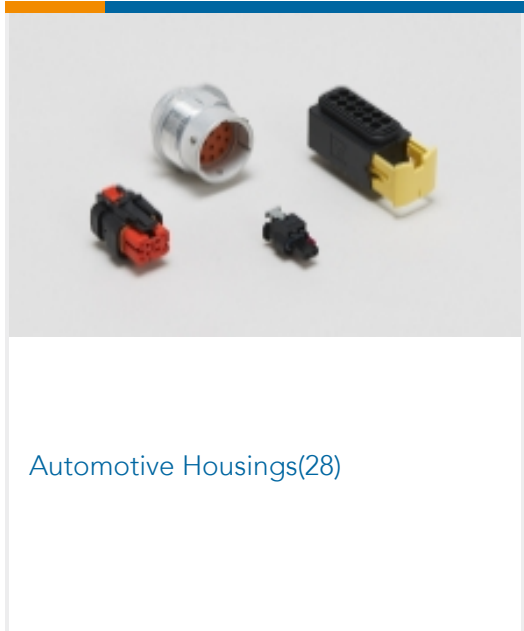
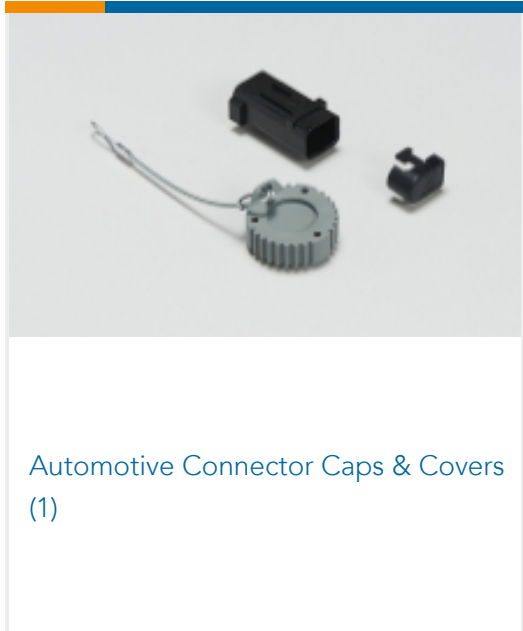
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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-HPCH5372<br/>High Pin Count Header</p> |  <p>TE Part # 1939440-1<br/>0.5 30POS CAP ASSY DIP SCREW</p> |  <p>TE Part # 1827855-3<br/>0.50 SERIES CONNECTER RECEPTACLE CONTACT</p> |  <p>TE Part # 1827855-4<br/>0.50 SERIES CONNECTER RECEPTACLE CONTACT</p> |
|---|---|---|---|



Also in the Series | 0.50 Connector System



Customers Also Bought





## Documents

### Product Drawings

#### 0.5 6POS LOCK HOUSING

Japanese

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### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1903614-1\\_D\\_c-1903614-1-d.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1903614-1\\_D\\_c-1903614-1-d.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_1903614-1\\_D\\_c-1903614-1-d.3d\\_stp.zip](#)

English

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

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### Datasheets & Catalog Pages

#### 0.50 Series Connectors

English

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### Product Specifications

#### Product Specification

English

#### Product Specification

Japanese

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### Product Environmental Compliance

#### Product Compliance

English

#### Product Compliance

English

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### Instruction Sheets

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

English

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

Japanese