

# HDP24-24-29SE-L017 ✓ ACTIVE

DEUTSCH | DEUTSCH HD, DEUTSCH HDP

TE Internal #: HDP24-24-29SE-L017

Housing for Female Terminals, Wire-to-Wire, 29 Position, Sealable, Black, Wire & Cable, Power & Signal, Panel Mount, Hybrid

[View on TE.com >](#)



Connectors > Automotive Connectors > Automotive Housings > DEUTSCH HDP20 Housings



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

Mating Pin Diameter: 1.02 mm, 1.59 mm, 2.39 mm [ .04 in, .063 in, .094 in ]

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

Number of Positions: **29**

Sealable: **Yes**

[All DEUTSCH HDP20 Housings \(324\)](#)

## Features

### Product Type Features

|                                   |                              |
|-----------------------------------|------------------------------|
| Connector Shape                   | Circular                     |
| Connector & Housing Type          | Housing for Female Terminals |
| Connector System                  | Wire-to-Wire                 |
| Sealable                          | Yes                          |
| Hybrid Connector                  | Yes                          |
| Primary Locking Feature           | Contact Retainer             |
| Connector & Contact Terminates To | Wire & Cable                 |

### Configuration Features

|                        |              |
|------------------------|--------------|
| Blank Cavity Position  | 0            |
| Connector Modification | Ring Adapter |
| Connector Seal Code    | E Seal       |
| Number of Positions    | 29           |

### Electrical Characteristics

|                              |                  |
|------------------------------|------------------|
| Operating Voltage            | 250 VAC          |
| Nominal Voltage Architecture | 12 V, 24 V, 48 V |

### Body Features

|  |  |
|--|--|
|  |  |
|--|--|



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

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

### Contact Features

|              |                           |
|--------------|---------------------------|
| Contact Size | Size 12, Size 16, Size 20 |
|--------------|---------------------------|

|              |        |
|--------------|--------|
| Contact Type | Socket |
|--------------|--------|

|                     |  |
|---------------------|--|
| Mating Pin Diameter | 1.02 mm, 1.59 mm, 2.39 mm [.04 in][.063 in][.094 in] |
|---------------------|--|

|                              |                   |
|------------------------------|-------------------|
| Contact Current Rating (Max) | 7.5 A, 13 A, 25 A |
|------------------------------|-------------------|

### Mechanical Attachment

|                             |    |
|-----------------------------|----|
| Terminal Position Assurance | No |
|-----------------------------|----|

|               |                  |
|---------------|------------------|
| Strain Relief | Add By Accessory |
|---------------|------------------|

|                       |            |
|-----------------------|------------|
| Mating Alignment Type | Guide Post |
|-----------------------|------------|

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

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Panel Mount |
|-------------------------|-------------|

### Housing Features

|                  |       |
|------------------|-------|
| Housing Material | PA GF |
|------------------|-------|

### Dimensions

|                  |                     |
|------------------|---------------------|
| Connector Height | 47.63 mm [1.875 in] |
|------------------|---------------------|

|               |                |
|---------------|----------------|
| Product Width | 50.8 mm [2 in] |
|---------------|----------------|

|                |                     |
|----------------|---------------------|
| Product Length | 45.77 mm [1.802 in] |
|----------------|---------------------|

|                                      |   |
|--------------------------------------|---|
| Compatible Insulation Diameter Range | 1.02 – 2.1 mm, 1.35 – 2.62 mm, 2.46 – 4.01 mm [.04 – .083 in][.053 – .103 in][.097 – .158 in] |
|--------------------------------------|---|

### Usage Conditions

|                             |                 |
|-----------------------------|-----------------|
| Operating Temperature (Max) | 125 °C [257 °F] |
|-----------------------------|-----------------|

|                             |                             |
|-----------------------------|-----------------------------|
| Operating Temperature Range | -55 – 125 °C [-67 – 257 °F] |
|-----------------------------|-----------------------------|

### Operation/Application

|                     |                |
|---------------------|----------------|
| Circuit Application | Power & Signal |
|---------------------|----------------|

### Industry Standards

|                      |      |
|----------------------|------|
| Degree of Protection | IP67 |
|----------------------|------|

|                        |                                    |
|------------------------|------------------------------------|
| UL Flammability Rating | 20mm Flame Test per Standard UL-94 |
|------------------------|------------------------------------|

### Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 160 |
|--------------------|-----|



Packaging Method Box

**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: JAN 2023 (233)  
Candidate List Declared Against: JAN 2023 (233)  
Does not contain REACH SVHC

Halogen Content Not Low Halogen - contains Br or Cl > 900 ppm.

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**



TE Part # CAT-D48-SP729  
DEUTSCH Sealing Plugs



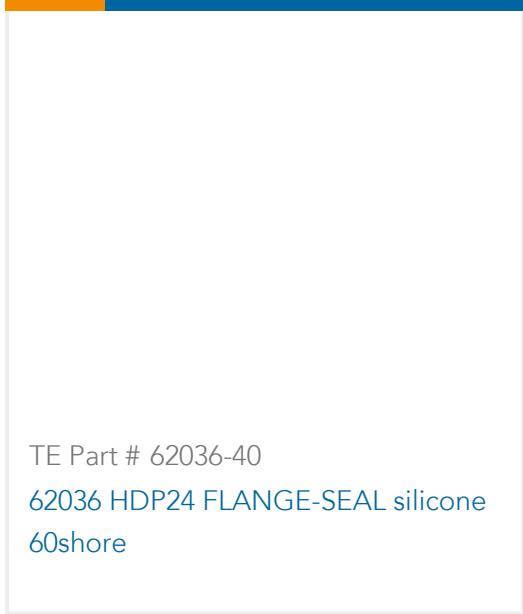
TE Part # CAT-H396-CH8172  
DEUTSCH HDP20 Housings



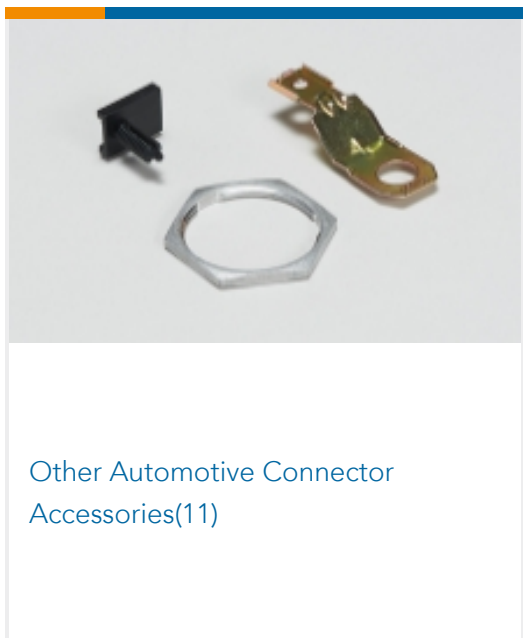
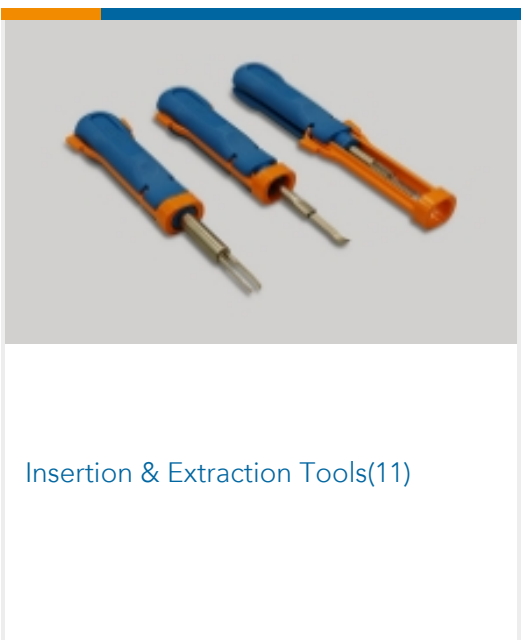
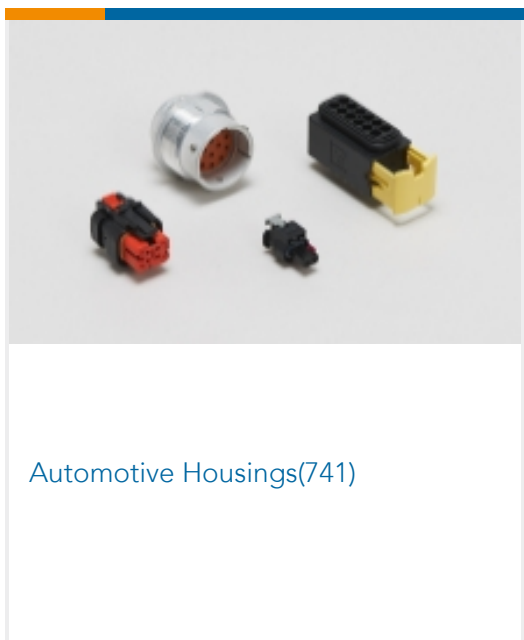
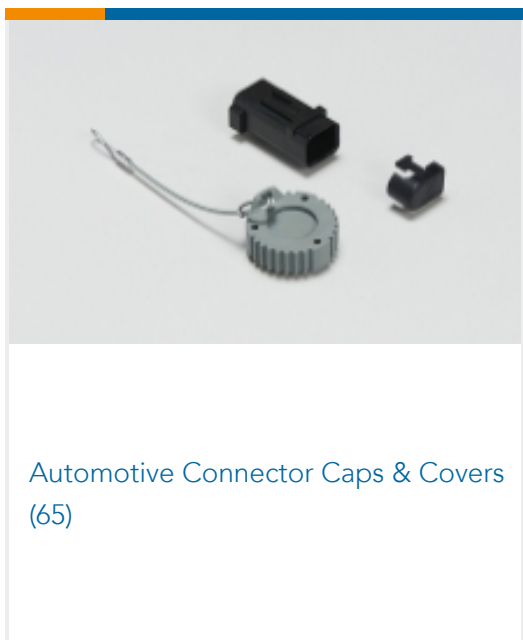
TE Part # CAT-H396-RC8382  
Receptacle Protective Caps —  
DEUTSCH HDP20



TE Part # CAT-H396-B128  
DEUTSCH HDP20 Backshells



Also in the Series | **DEUTSCH HD**



Also in the Series | **DEUTSCH HDP**





Automotive Connector Caps & Covers (12)



Automotive Housings(331)



Automotive Seals & Cavity Plugs(1)



Insertion & Extraction Tools(11)



Other Automotive Connector Accessories(5)

## Customers Also Bought



TE Part #HDP24-24-47SE-L017  
DEUTSCH HDP20 Housings



TE Part #DT06-12SB-CE13  
PLG, 12P, BLK, E,SEAL RET,ENH KEY,  
XCAP,B



TE Part #2428-010-2405  
COVER,24SZ,BLK,ST,NW17,19,23,26,  
L017,HDP



TE Part #2319021-1  
REC CONN CVR,8POS,AMP MCP 2.8,  
FRB

## Documents

### Product Drawings

[REC, 29P, BLK, E, RNG, 12/16/20, S](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_HDP24-24-29SE-L017\\_B.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_HDP24-24-29SE-L017\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_HDP24-24-29SE-L017\\_B.3d\\_stp.zip](#)

English



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**Product Specifications**

[Application Specification](#)

English

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**Agency Approvals**

[UL Report](#)

English