

HDP24-24-7PN-C038

✓ ACTIVE

DEUTSCH | [DEUTSCH HD](#), [DEUTSCH HDP](#)

TE Internal #: HDP24-24-7PN-C038

Housing for Male Terminals, Wire-to-Wire, 7 Position, Sealable,  
Black, Wire & Cable, Power & Signal, Panel Mount, -67 – 257 °F [-55  
– 125 °C], Hybrid

[View on TE.com](#) >



Connectors > Automotive Connectors > Automotive Housings > DEUTSCH HDP20 Housings



Connector System: **Wire-to-Wire**  
Number of Positions: **7**  
Connector & Housing Type: **Housing for Male Terminals**  
Sealable: **Yes**  
Mating Pin Diameter: **1.59 mm, 5.72 mm [ .063 in, .225 in ]**

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

Features

Product Type Features

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

Configuration Features

|                       |        |
|-----------------------|--------|
| Blank Cavity Position | 0      |
| Connector Seal Code   | N Seal |
| Number of Positions   | 7      |

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 16, Size 4                    |
| Contact Type                 | Pin                                |
| Mating Pin Diameter          | 1.59 mm, 5.72 mm[.063 in][.225 in] |
| Contact Current Rating (Max) | 13 A, 100 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                       | 41.86 mm[1.648 in]                                         |
| Compatible Insulation Diameter Range | 2.54 – 3.4 mm, 7.9 – 10.67 mm[.1 – .134 in][.311 – .42 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 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: JUNE 2023 (235)<br>Candidate List Declared Against: JAN 2023 (233)<br>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 # HDP26-24-7SN-C038  
PLG, 7P, BLK, N, 4AWG, 4/16, S



TE Part # CAT-D48-ST273  
DEUTSCH Solid Contacts



TE Part # CAT-D48-SP729  
DEUTSCH Sealing Plugs



TE Part # CAT-J67-DSCC16  
DEUTSCH Size 16 Crimp Contacts



TE Part # 24-D-PUNCH  
D-HOLE PUNCH, SIZE 24



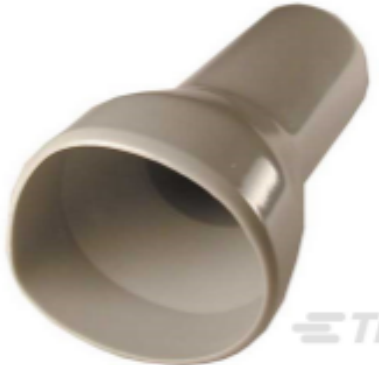
TE Part # 0411-027-0405  
EXT TOOL, SIZE 4, 4 AWG, N, BLK



TE Part # HD30-24BT-BK  
BOOT, 24SZ, ST, BLK



TE Part # 16-04477  
GASKET, 24SZ, BLK, HD30



TE Part # HD30-24BT  
BOOT, 24SZ, ST, GRY



TE Part # HD30-24BT-90-BK  
BOOT, 24SZ, RA, BLK



TE Part # 0411-291-1405  
EXT TOOL, SIZE 16, 14-16 AWG, N, GRN



TE Part # WHDS-24-1  
STRAIN RELIEF, HD30, 24SZ, ST



TE Part # WHDS-24-2  
STRAIN RELIEF, HD30, 24SZ, RA



TE Part # 0411-204-1605  
EXT TOOL, SIZE 16, 16-18 AWG, N, DRK BLU



TE Part # 2300908-1  
0460-003-16329, PIN, SOLID, 20-24AWG, AU

TE Part # 2415-001-2405  
PROTECT CVR, 24SZ, REC, RED, HDP

TE Part # CAT-D48-SFT273  
DEUTSCH Stamped and Formed Contacts

TE Part # 62036-40  
62036 HDP24 FLANGE-SEAL silicone 60shore

Also in the Series | **DEUTSCH HD**



Automotive Connector Caps & Covers (32)



Automotive Housings(742)



Connector Backshells(29)



Connector Seals & Cavity Plugs(10)



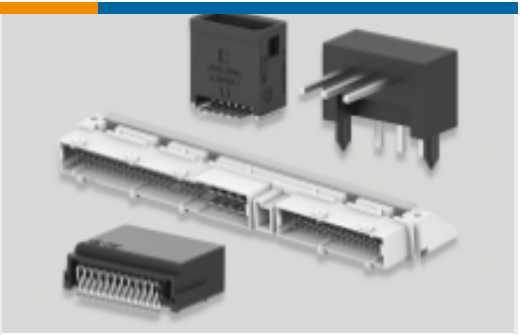
Connector Strain Relief(5)



Insertion & Extraction Tools(11)



Other Automotive Connector Accessories(11)



PCB Headers & Receptacles(1)

Also in the Series | **DEUTSCH HDP**



Automotive Connector Caps & Covers (4)



Automotive Housings(331)



Connector Backshells(8)



Connector Seals & Cavity Plugs(1)



Insertion & Extraction Tools(11)



Other Automotive Connector Accessories(5)

Customers Also Bought



TE Part #HDP26-24-7SN-CL18  
PLG, 7P, BLK, N, 4AWG, RNG, 4/16, S



TE Part #3336796001  
RBK-ESS-CROSS-10.0-X-8MM



TE Part #1977737-2  
MPS1004F PSHBTN 0.4VA SPDT MMN



TE Part #2101012-1  
SMPM STR CABLE PLUG



TE Part #DTF13-4P-G003  
HDR, 4P, GRY, RA, AU/NI/CU



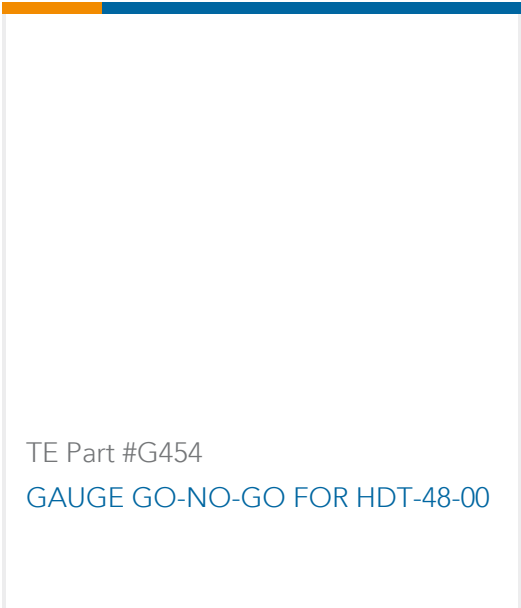
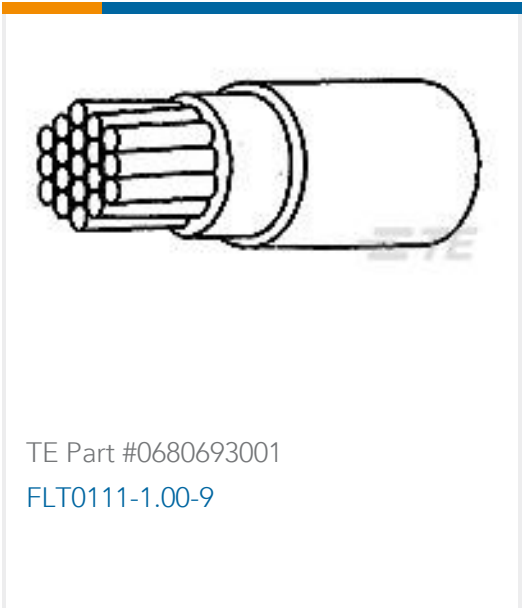
TE Part #DTP04-2P-EE01  
REC, 2P, BLK, N, XCAP



TE Part #282021-014  
44A0111-20-1



TE Part #2161640-1  
EXTRACTION TOOL, PLUG, SMPM



Documents

Product Drawings

[REC, 7P, BLK, N, 4AWG, 4/16, P](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_HDP24-24-7PN-C038\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_HDP24-24-7PN-C038\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_HDP24-24-7PN-C038\\_C.3d\\_stp.zip](#)

English

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

Datasheets & Catalog Pages

[ICT Terminals and Connectors Catalogue](#)

English

[CONNECTOR SELECTOR](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English