

HDP24-18-20SN

✓ ACTIVE

DEUTSCH | DEUTSCH HD, DEUTSCH HDP

TE Internal #: HDP24-18-20SN

Housing for Female Terminals, Wire-to-Wire, 20 Position, Sealable, Black, Wire & Cable, Power, Panel Mount, -55 – 125 °C [-67 – 257 °F]

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Connectors > Automotive Connectors > Automotive Housings > DEUTSCH HDP20 Housings



Connector System: **Wire-to-Wire**  
Number of Positions: **20**  
Connector & Housing Type: **Housing for Female Terminals**  
Sealable: **Yes**  
Mating Pin Diameter: **1 mm, 1.6 mm [ .04 in, .063 in ]**

[All DEUTSCH HDP20 Housings \(357\)](#)

Features

Product Type Features

|                                   |                              |
|-----------------------------------|------------------------------|
| Mixed & Hybrid Connector          | Yes                          |
| Connector Shape                   | Circular                     |
| Connector System                  | Wire-to-Wire                 |
| Connector & Housing Type          | Housing for Female 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   | 20     |

Electrical Characteristics

|                   |         |
|-------------------|---------|
| Operating Voltage | 250 VAC |
|-------------------|---------|



Nominal Voltage Architecture250 V

Body Features

Cable Exit Angle180°

Primary Product ColorBlack

Contact Features

Contact SizeSize 16, Size 20

Contact TypeSocket

Mating Pin Diameter1 mm, 1.6 mm[.04 in][.063 in]

Contact Current Rating (Max)7.5 A, 13 A

Mechanical Attachment

Terminal Position AssuranceNo

Strain ReliefWithout

Mating Alignment TypeGuide Post

Mating AlignmentWith

Connector Mounting TypePanel Mount

Housing Features

Housing MaterialPA 66 GF

Dimensions

Connector Height41.9 mm[1.65 in]

Product Width41.3 mm[1.62 in]

Product Length44.4 mm[1.75 in]

Compatible Insulation Diameter Range1.4 – 3.8 mm, 1.9 – 3.2 mm[.055 – .15 in][.075 – .125 in]

Usage Conditions

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

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

Operation/Application

Circuit ApplicationPower

Industry Standards

Degree of ProtectionIP67

UL Flammability RatingUL 94V-0

Packaging Features



|                                      |         |
|--------------------------------------|---------|
| Packaging Quantity                   | 1       |
| Packaging Method                     | Package |
| 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 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>SVHC > Threshold:<br>Octamethylcyclotetrasiloxane (D4) (.5% in Component Part)<br>Dodecamethylcyclohexasiloxane (D6) (.5% in Component Part)<br>Decamethylcyclopentasiloxane (D5) (.5% in Component Part)<br><b>Article Safe Usage Statements:</b><br>Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| 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

HDP24-18-20SN

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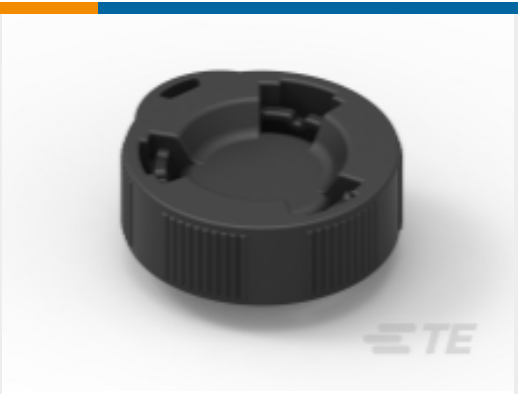
TE Part # CAT-D48-SP729  
DEUTSCH Sealing Plugs



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



TE Part # CAT-D48-ST273  
DEUTSCH Solid Contacts



TE Part # HDC26-18  
DUST CAP, 18SZ, REC, BLK, HDP



TE Part # CAT-H396-M8649  
Lockwashers and Panel Nuts for Deutsch HDP20



TE Part # HDP26-18-20PN  
PLG, 20P, BLK, N, 16/20, P



TE Part # 1062-20-0622  
SOC, SF, SIZE 20, 14-16, NI/NI



TE Part # 1062-20-0244  
SOC, SF, SIZE 20, 16-22, AU/SN



TE Part # 1062-20-0322  
SOC, SF, SIZE 20, 16-22, SLEVLESS, NI /NI



TE Part # 1062-20-0377  
SOC, SF, SIZE 20, 16-22, SLEVLESS, SN /SN



TE Part # 1062-20-0277  
SOC, SF, SIZE 20, 16-22, SN/SN



TE Part # 18-D-PUNCH  
D-HOLE PUNCH, SIZE 18



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



TE Part # 0411-240-2005  
EXT TOOL, SIZE 20, 16-22 AWG, N, RED



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



TE Part # HD30-18BT-BK  
BOOT, 18SZ, ST, BLK



TE Part # 1062-20-0222  
SOC, SF, SIZE 20, 16-22, NI/NI



TE Part # 1062-20-0122  
SOC, SF, SIZE 20, 16-22, NI/NI



TE Part # 1062-20-0144  
SOC, SF, SIZE 20, 16-22, AU/SN



TE Part # 1062-20-0177  
SOC, SF, SIZE 20, 16-22, SN/SN

Also in the Series | **DEUTSCH HD**



|                                            |                                  |                                               |                                    |
|--------------------------------------------|----------------------------------|-----------------------------------------------|------------------------------------|
|                                            |                                  |                                               |                                    |
| Automotive Connector Caps & Covers<br>(32) | Automotive Housings(768)         | Connector Backshells(29)                      | Connector Seals & Cavity Plugs(10) |
|                                            |                                  |                                               |                                    |
| Connector Strain Relief(5)                 | Insertion & Extraction Tools(11) | Other Automotive Connector<br>Accessories(11) | PCB Headers & Receptacles(1)       |

Also in the Series

DEUTSCH HDP

|                                           |                                              |                         |                                   |
|-------------------------------------------|----------------------------------------------|-------------------------|-----------------------------------|
|                                           |                                              |                         |                                   |
| Automotive Connector Caps & Covers<br>(4) | Automotive Housings(357)                     | Connector Backshells(8) | Connector Seals & Cavity Plugs(1) |
|                                           |                                              |                         |                                   |
| Insertion & Extraction Tools(11)          | Other Automotive Connector<br>Accessories(5) |                         |                                   |

Customers Also Bought

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TE Part #HD34-24-19SE-059  
REC,19P,AL,E,CBLCLMP BT,DRAIN,12 /16,S,MC



TE Part #HDP24-24-23SE  
DEUTSCH HDP20 Housings



TE Part #DT06-12SA-CE12  
DEUTSCH DT Plug Connectors



TE Part #DTP4S-BT  
BOOT, 4P, PLG, ST, GRY



TE Part #1011-331-0205  
BKSHL, 2P, BLK, PLG, RA, NW 8.5/10



TE Part #2500021-1  
SRC Pwr 60+6AG Male Blade Hsg Assy



TE Part #K1162551  
Relay 31-313-11-i-945

Documents

Product Drawings

REC, 20P, BLK, N, 16/20, S

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_HDP24-18-20SN\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_HDP24-18-20SN\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_HDP24-18-20SN\_A.3d\_stp.zip

English

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Datasheets & Catalog Pages

CONNECTOR SELECTOR

English

Product Specifications

Application Specification

English

Agency Approvals

UL Report



English