HDP24-24-31ST ✔ ACTIVE

DEUTSCH | DEUTSCH HD, DEUTSCH HDP

TE Internal #: HDP24-24-31ST

12 V / 24 V / 48 V, 31 Position, Automotive Housing for Female Terminals, Wire-to-Panel, Sealable, Black, Wire & Cable, Power, Panel Mount, Hybrid

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Automotive Parts > Automotive Connectors > Automotive Housings > DEUTSCH HDP20 Housings



Nominal Voltage Architecture: **12 V, 24 V, 48 V**

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

Number of Positions: **31**

Sealable: **Yes**

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

All DEUTSCH HDP20 Housings (357)

Features

Product Type Features

Mixed & Hybrid Connector	No
Connector Shape	Circular
Connector & Housing Type	Housing for Female Terminals
Sealable	Yes
Primary Locking Feature	Contact Retainer
Connector System	Wire-to-Panel
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Blank Cavity Position	0
Connector Seal Code	T Seal
Number of Positions	31

Electrical Characteristics

Operating Voltage	250 VDC
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
Contact Type	Socket
Mating Pin Diameter	1.6 mm[.063 in]
Contact Current Rating (Max)	13 A

Mechanical Attachment

Strain Relief	Without
Terminal Position Assurance	No
Mating Alignment Type	Polarizing Slot
Mating Alignment	With
Connector Mounting Type	Panel Mount

Housing Features

Housing Material	PA 66 GF

Dimensions

Compatible Insulation Diameter Range	1.4 – 3.8 mm[.055 – .15 in]
Product Width	47.6 mm[1.87 in]
Product Length	50.8 mm[2 in]
Connector Height	41.9 mm[1.65 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power

Industry Standards

IP Rating	IP67
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	150
Packaging Method	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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JAN 2025 (247) 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

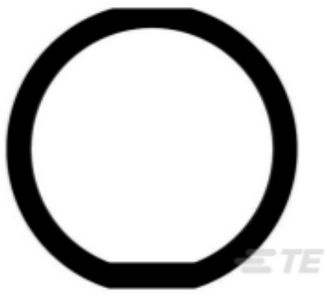
Product Compliance Disclaimer

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



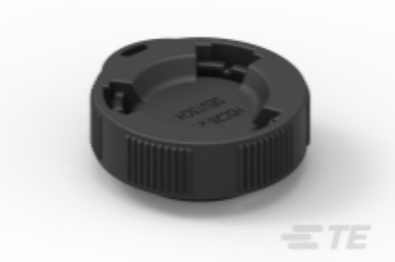
TE Part # 24-D-PUNCH
D-HOLE PUNCH, SIZE 24



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



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



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



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



TE Part # 1062-16-1422
SOC, SF, SIZE 16, 12-16, SLVLES, NI/NI



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



TE Part # CAT-D48-SP729
DEUTSCH Sealing Plugs



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



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



TE Part # CAT-H396-CH8172
DEUTSCH HDP20 Housings



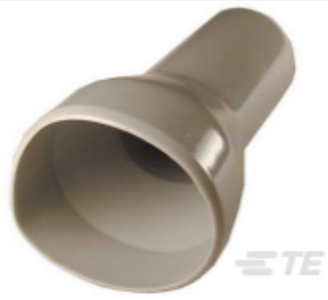
TE Part # CAT-D48-ST273
DEUTSCH Solid Contacts



TE Part # 0411-310-1605
EXT TOOL, SIZE 16, 16-18 AWG, T, LT BLU



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

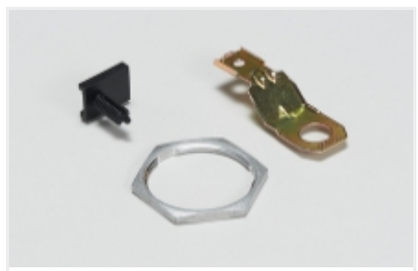


TE Part # HD30-24BT
BOOT, 24SZ, ST, GRY

Also in the Series | DEUTSCH HD



Automotive Connector Caps & Covers (4)



Other Automotive Connector Accessories(7)

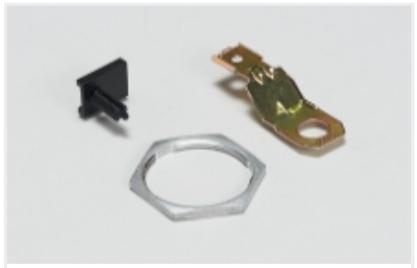
Also in the Series | DEUTSCH HDP



Automotive Connector Caps & Covers (4)



Automotive Seals & Cavity Plugs(1)



Other Automotive Connector Accessories(7)

Customers Also Bought



TE Part #K1127118
Battery Disconnector 35-521-100-R



TE Part #2411-001-2405
PANEL NUT, SIZE 24, HDP



TE Part #CAT-H396-CH8172
DEUTSCH HDP20 Housings



TE Part #10142032-01
TRICAN 5V HTD2800P1B11C6 STD



TE Part #776488-4
AS16,CAP ASSY,ST,04P,N SEAL,CODE D



TE Part #7-968972-1
MCP2.8 GEH ASSY 12P

TE Part #400-4301-12S
SZ 12 LOCATOR

TE Part #400-414DA-16N048
SZ 16 DIE ASM

TE Part #400-4301-16S
SZ 16 LOCATOR

Documents

Product Drawings

REC, 31P, BLK, T, 16, S

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_HDP24-24-31ST_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_HDP24-24-31ST_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_HDP24-24-31ST_B.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Datasheets & Catalog Pages

DEUTSCH HD30 & HDP20 CONNECTOR SERIES

English

ICT Terminals and Connectors Catalogue

English

Product Specifications

Application Specification

English

Agency Approvals

UL Report

English