

HDP24-24-31ST ✓ ACTIVE

DEUTSCH | DEUTSCH HD, DEUTSCH HDP

TE Internal #: HDP24-24-31ST

Housing for Female Terminals, Wire-to-Wire, 31 Position, Sealable, Black, Wire & Cable, Power & Signal, Panel Mount, Hybrid

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Connectors > Automotive Connectors > Automotive Housings > DEUTSCH HDP20 Housings



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

Number of Positions: **31**

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

Sealable: **Yes**

Mating Pin Diameter: **1.59 mm [.063 in]**

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

Features

Product Type Features

Mixed & Hybrid Connector	No
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	T Seal
Number of Positions	31

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
Contact Type	Socket
Mating Pin Diameter	1.59 mm[.063 in]
Contact Current Rating (Max)	13 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
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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	2.23 – 2.69 mm[.088 – .106 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
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Industry Standards

Degree of Protection	IP67
UL Flammability Rating	20mm Flame Test per Standard UL-94

Packaging Features

Packaging Method	Box
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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) 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-J67-DSCC16
DEUTSCH Size 16 Crimp Contacts



TE Part # CAT-H396-CH8172
DEUTSCH HDP20 Housings



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



TE Part # CAT-D48-SP729
DEUTSCH Sealing Plugs



TE Part # CAT-D48-ST273
DEUTSCH Solid Contacts



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



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



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



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



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



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



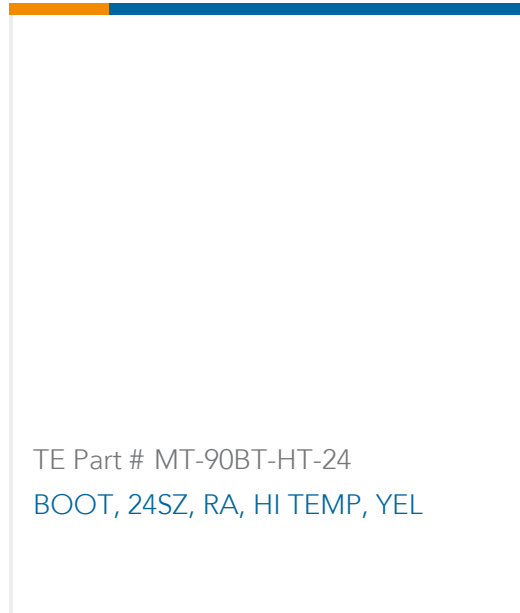
TE Part # 0411-310-1605
EXT TOOL, SIZE 16, 16-18 AWG, T, LT
BLU



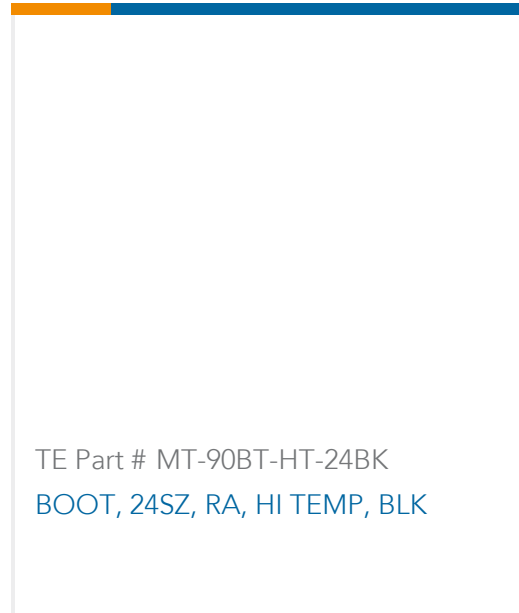
TE Part # 16-04477
GASKET, 24SZ, BLK, HD30



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



TE Part # MT-90BT-HT-24
BOOT, 24SZ, RA, HI TEMP, YEL

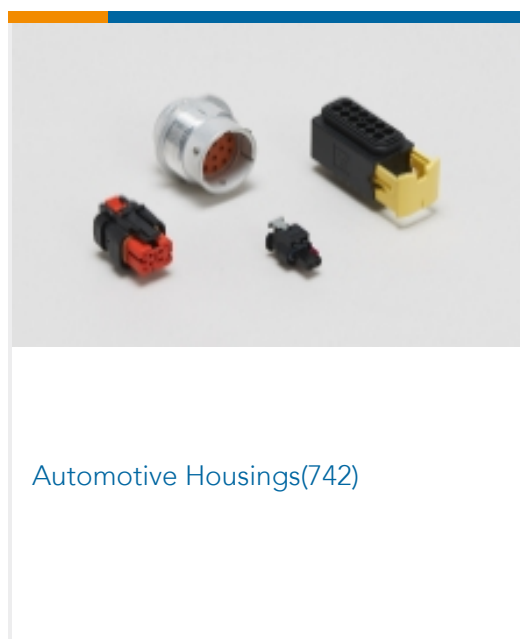


TE Part # MT-90BT-HT-24BK
BOOT, 24SZ, RA, HI TEMP, BLK

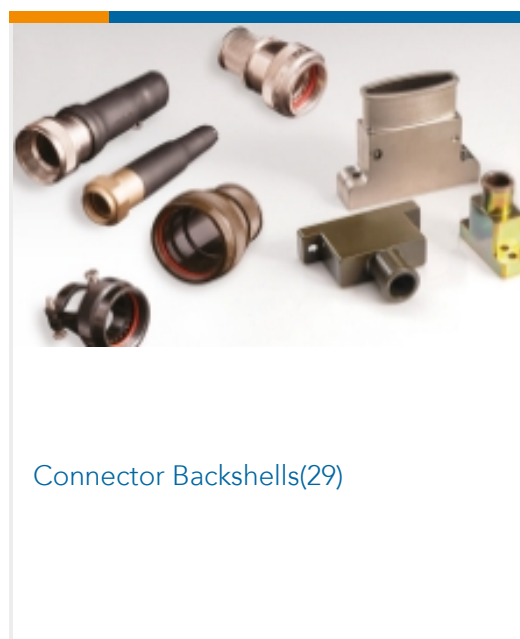
Also in the Series | **DEUTSCH HD**



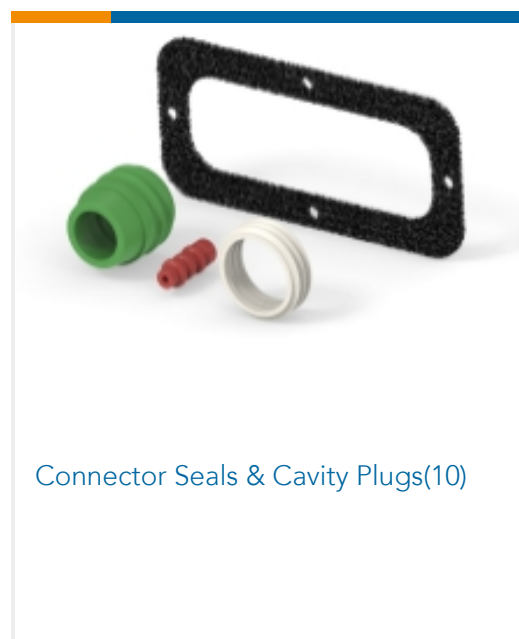
Automotive Connector Caps & Covers
(32)



Automotive Housings(742)



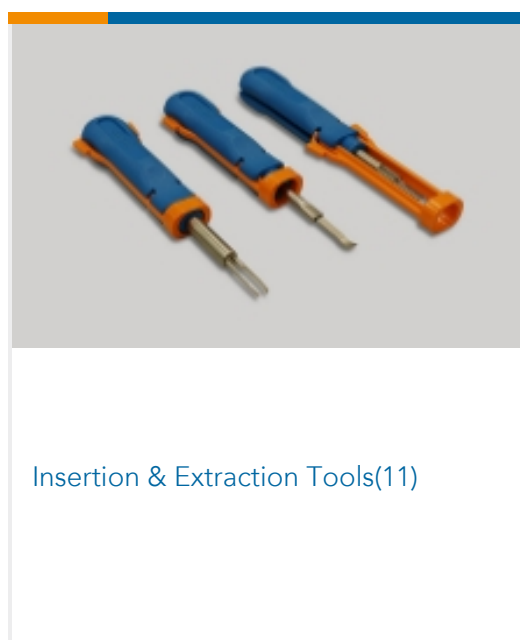
Connector Backshells(29)



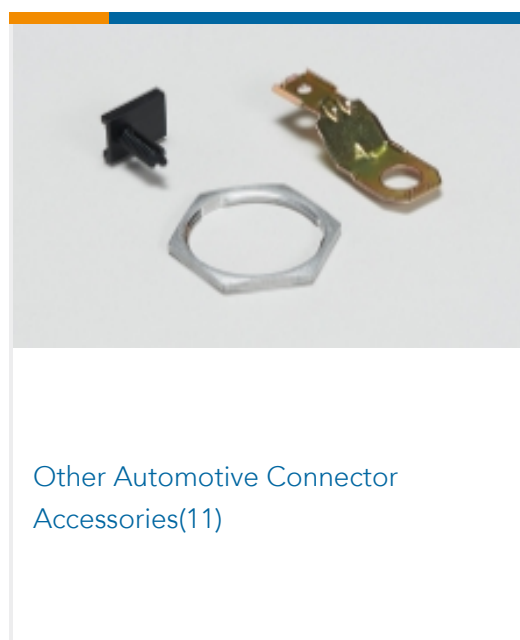
Connector Seals & Cavity Plugs(10)



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)

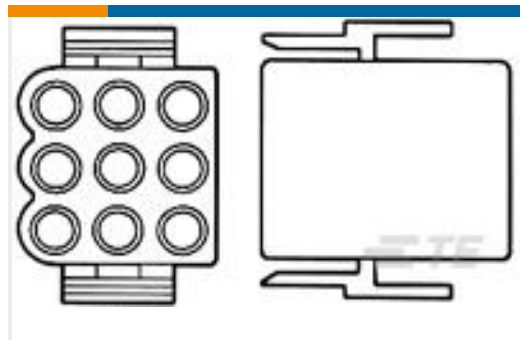


Other Automotive Connector Accessories(5)

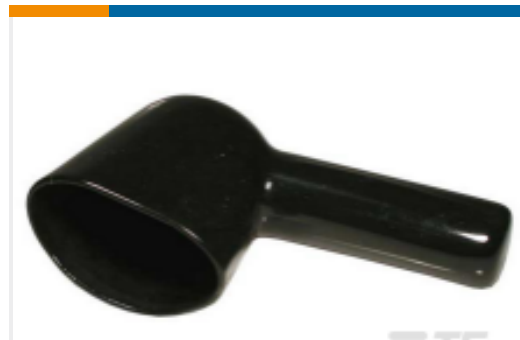
Customers Also Bought



TE Part #776438-1
AMPSEAL 16 Housings



TE Part #1-480585-0
09P .140 MNL PLUG NAT



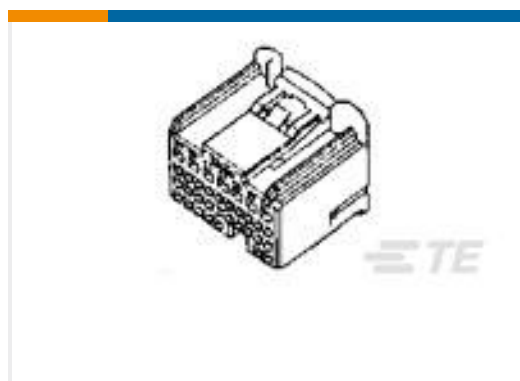
TE Part #HD30-24BT-90-BK
BOOT, 24SZ, RA, BLK



TE Part #HDP24-18-14SN
DEUTSCH HDP20 Housings



TE Part #DRC12-40PA
DEUTSCH DRC Housings



TE Part #1123341-1
025/040 ECU PLUG HSG ASSY 31P



TE Part #413879-1
JACK ASSY,RTANG,BNC

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

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Datasheets & Catalog Pages

[ICT Terminals and Connectors Catalogue](#)

English

Product Specifications

[Application Specification](#)

English

Agency Approvals

[UL Report](#)

English