

HDP24-24-18PE-L024

✓ ACTIVE

DEUTSCH | DEUTSCH HD, DEUTSCH HDP

TE Internal #: YHDP24-24-18PEL024

Housing for Male Terminals, Wire-to-Wire, 18 Position, Sealable, Black, Wire & Cable, Power, Cable Mount (Free-Hanging), Hybrid

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Connectors > Automotive Connectors > Automotive Housings > DEUTSCH HDP20 Housings



Connector System: **Wire-to-Wire**
Number of Positions: **18**
Connector & Housing Type: **Housing for Male Terminals**
Sealable: **Yes**
Mating Pin Diameter: **1.59 mm, 2.39 mm, 3.61 mm [.063 in, .094 in, .142 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 Male Terminals
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Primary Locking Feature	Integrated in Housing

Configuration Features

Blank Cavity Position	0
Connector Modification	Wide Threaded Adapter
Number of Positions	18

Electrical Characteristics

Operating Voltage	250 VAC
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Nominal Voltage Architecture	250 V
Body Features	
Cable Exit Angle	180°
Primary Product Color	Black
Contact Features	
Contact Size	Size 12, Size 16, Size 8
Contact Type	Pin
Mating Pin Diameter	1.59 mm, 2.39 mm, 3.61 mm[.063 in][.094 in][.142 in]
Contact Current Rating (Max)	13 A, 25 A, 60 A
Mechanical Attachment	
Terminal Position Assurance	No
Strain Relief	Add By Accessory
Mating Alignment Type	Guide Post
Mating Alignment	With
Connector Mounting Type	Cable Mount (Free-Hanging)
Housing Features	
Housing Material	PA GF
Dimensions	
Connector Height	47.63 mm[1.875 in]
Product Width	50.8 mm[2 in]
Product Length	41.53 mm[1.635 in]
Compatible Insulation Diameter Range	1.35 – 3.05 mm, 2.46 – 4.01 mm, 3.43 – 5.59 mm[.053 – .12 in][.097 – .158 in][.135 – .22 in]
Usage Conditions	
Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
Operation/Application	
Circuit Application	Power
Industry Standards	
Degree of Protection	IP67
UL Flammability Rating	20mm Flame Test per Standard UL-94



Packaging Features

Packaging Quantity	1
Packaging Method	Box

Other

Serviceable	Yes
Connector Position Assurance Capable	No

Product Compliance

For compliance documentation, visit the product page on TE.com>

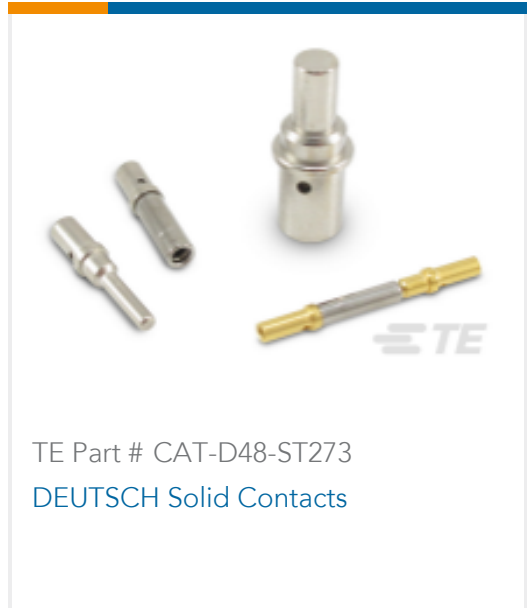
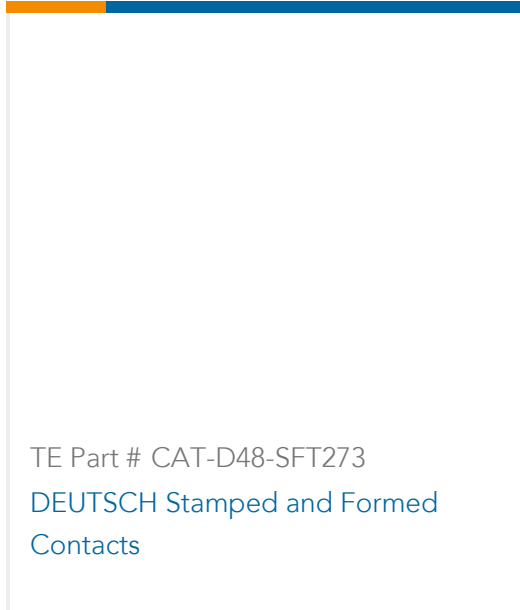
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does 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-D48-ST273 DEUTSCH Solid Contacts
 TE Part # Y2428-024-24050000 BKSHL, 24SZ, BLK, ST, L024, HDP	 TE Part # CAT-J67-DSCC16 DEUTSCH Size 16 Crimp Contacts	 TE Part # HD30-24BT-BK BOOT, 24SZ, ST, BLK	 TE Part # 16-04477 GASKET, 24SZ, BLK, HD30
 TE Part # 1060-12-0144 PIN, SF, SIZE 12, 12-14, AU/SN	 TE Part # 1060-12-0222 PIN, SF, SIZE 12, 10, NI/NI	 TE Part # 1060-12-0166 PIN, SF, SIZE 12, 12-14, NI/SN	 TE Part # 24-D-PUNCH D-HOLE PUNCH, SIZE 24
 TE Part # 0411-337-1205 EXT TOOL, SIZE 12, 12-14 AWG, E, ORG	 TE Part # 114008-ZZ EXT TOOL, SIZE 8, 8-10 AWG, N, GRN	 TE Part # 2300908-1 0460-003-16329, PIN, SOLID, 20- 24AWG, AU	 TE Part # HD30-24BT BOOT, 24SZ, ST, GRY
 TE Part # HD30-24BT-90-BK BOOT, 24SZ, RA, BLK	 TE Part # 0411-336-1605 EXT TOOL, SIZE 16, 16-20 AWG, E, DRK BLU	 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(768)



Connector Backshells(29)



Connector Seals & Cavity Plugs(10)



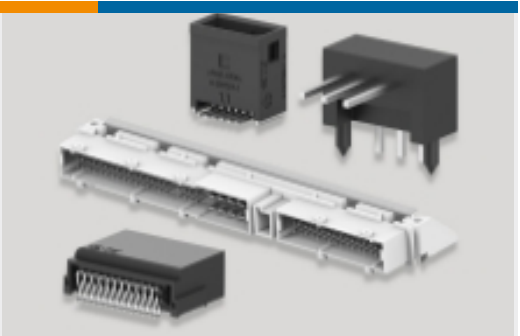
Connector Strain Relief(5)



Insertion & Extraction Tools(11)



Other Automotive Connector
Accessories(12)



PCB Headers & Receptacles(1)

Also in the Series

DEUTSCH HDP



Automotive Connector Caps & Covers
(4)



Automotive Housings(357)



Connector Backshells(10)



Connector Seals & Cavity Plugs(1)



Insertion & Extraction Tools(11)



Other Automotive Connector
Accessories(6)

Customers Also Bought



TE Part #WB-48PB
WEDGE LOCK, 48P, REC, BLK, DRB, B



TE Part #776539-3
AS16,CAP ASSY,ST,12P,E SEAL,CODE C



TE Part #YHDP24-24-21PEL024
DEUTSCH HDP20 Housings



TE Part #2292801-1
AMPSEAL 16 Connectors Backshell

Documents

Product Drawings

REC, 18P, BLK, E, WTHD, 8/12/16, P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_YHDP24-24-18PEL024_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_YHDP24-24-18PEL024_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_YHDP24-24-18PEL024_B.3d_stp.zip

English

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Datasheets & Catalog Pages

ICT Terminals and Connectors Catalogue

English

CONNECTOR SELECTOR

English

Product Specifications

Application Specification

English

Agency Approvals

UL Report

English