DEUTSCH HDP20 HOUSINGS

DEUTSCH | DEUTSCH HD, DEUTSCH HDP

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DEUTSCH HDP20 housings have a composite thermoplastic shell suited for applications where chemicals can damage a connector housing.

Connectors > Automotive Connectors > Automotive Housings

DEUTSCH HDP20 housings are circular shaped, thermoplastic connectors that are offered in multiple pin configurations from 2 to 47 cavities. HDP20 housings feature a coupling ring for mating and accept DEUTSCH contact sizes 4 through 20 (100-7.5 amps).

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

Sealable: **Yes**

Primary Locking Feature: **Contact Retainer**

Operating Temperature (Max): **125 °C**

Primary Product Color: **Black**

Series Overview

- Accepts contact sizes 4 (100 amps), 8 (60 amps), 12 (25 amps), 16 (13 amps), and 20 (7.5 amps)
- 4-22 AWG (25.00-0.35 mm2)
- 2, 6, 7, 8, 9, 14, 16, 18, 19, 20, 21, 23, 29, 31, 33, 35, and 47 cavity arrangements
- In-line or flange mount
- Circular, thermoplastic housing
- Coupling ring for mating
- Available accessories: Backshells, boots, dust caps, gaskets, mounting hardware, strain relief

▇◀ DEUTSCH HDP20 & HD30 Connector Overview & Assembly Instructions (English)

Learn about our rugged thermoplastic DEUTSCH HDP20 connectors and our heavy-duty aluminum HD30 connectors. Watch this video for an overview of the connectors and for step-by-step instructions on inserting and removing contacts, as well as mating and unmating.

VIEW ALL DEUTSCH HDP20 PRODUCTS

VIEW ALL DEUTSCH HDP20 PRODUCTS

DEUTSCH HDP20 connectors are heavy-duty, environmentally sealed, composite shell, multi-pin connectors.

Features

Product Type Features

Connector & Housing Type	Housing for Female Terminals, Housing for Male Terminals
Connector System	Wire-to-Wire
Sealable	Yes
Hybrid Connector	No, Yes
Primary Locking Feature	Contact Retainer
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Blank Cavity Position	0
Number of Positions	6, 7, 8, 9, 14, 16, 18, 19, 20, 21, 23, 29, 31, 33, 35, 47

Electrical Characteristics

Operating Voltage (VDC)	250
Operating Voltage (VAC)	250
Nominal Voltage Architecture (V)	12, 24, 48

Body Features

Cable Exit Angle	180°
Body Material	PA GF
Primary Product Color	Black

Contact Features

Mating Pin Diameter (mm)	1.02, 1.59, 2.39, 3.61, 5.72
Mating Pin Diameter (in)	.04, .0625, .094, .142, .225
Contact Current Rating (Max) (A)	7.5, 13, 25, 60, 100

Mechanical Attachment

Mounting Feature	With
Terminal Position Assurance	No
Strain Relief	Add By Accessory
Mating Alignment Type	Polarized
Connector Mounting Type	Bulkhead, Cable Mount (Free-Hanging), Panel Mount

Dimensions

Product Width (mm)	43.17, 44.42, 44.45, 49.53, 50.8
Product Width (in)	1.7, 1.75, 1.95, 2
Product Length (mm)	38.3, 38.63, 41.53, 41.86, 42.55, 44.75, 45.77, 55.45, 58.67
Product Length (in)	1.508, 1.521, 1.625, 1.635, 1.648, 1.675, 1.762, 1.802, 2.183, 2.31
Product Height (mm)	41.28, 43.17, 47.63, 49.53
Product Height (in)	1.625, 1.7, 1.875, 1.95
Accepts Wire Insulation Diameter Range (mm)	1.02 - 2.1, 1.02 - 2.41, 1.35 - 2.62, 1.35 - 2.69, 1.35 - 3.05, 2.23 - 2.69, 2.23 - 3.4, 2.46 - 4.01, 2.54 - 3.4, 3.4 - 4.32, 3.43 - 5.59, 4.83 - 6.1, 6.63 - 7.42, 7.11 - 7.42, 7.9 - 10.67
Accepts Wire Insulation Diameter Range (in)	.04 - .083, .04 - .095, .053 - .103, .053 - .106, .053 - .12, .088 - .106, .088 - .134, .097 - .158, .1 - .134, .134 - .17, .135 - .22, .19 - .24, .261 - .292, .28 - .292, .311 - .42

Usage Conditions

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

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 Quantity	1, 120, 160, 200
Packaging Method	Box

Other

Serviceable	Yes
Connector Position Assurance Capable	No

Reference Number

TE Internal Number	CAT-H396-CH8172

SEE PRODUCTS ON NEXT PAGE

Products (1 of 5)

	REC, 16P, BLK, E, RNG, 12, S	REC, 9P, BLK, N, THD, 4/8 /12, P	REC, 23P, BLK, N, THD, 16, S	REC, 35P, BLK, E, 16/20, S
TE Part #	HDP24-24-16SE-L017	HDP24-24-9PN-L015	HDP24-24-23SN-L015	HDP24-24-35SE
Connector & Housing Type	Housing for Female Terminals	Housing for Male Terminals	Housing for Female Terminals	Housing for Female Terminals
Mating Pin Diameter	2.39 mm	2.39 mm, 3.61 mm, 5.72 mm	1.59 mm	1.02 mm, 1.59 mm
Number of Positions	16	9	23	35
Hybrid Connector	No	Yes	No	Yes
Contact Current Rating (Max)	25 A	25 A, 60 A, 100 A	13 A	7.5 A, 13 A
Connector Mounting Type	Bulkhead, Cable Mount (Free-Hanging), Panel Mount	Bulkhead, Cable Mount (Free-Hanging), Panel Mount	Bulkhead, Cable Mount (Free-Hanging), Panel Mount	Bulkhead, Cable Mount (Free-Hanging), Panel Mount
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP

*EU RoHS Directive 2011/65/EU

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

**EU ELV Directive 2000/53/EC

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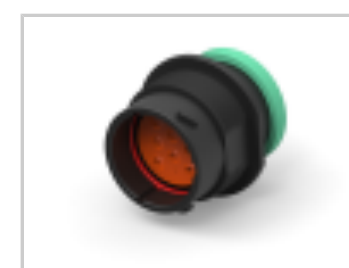
DEUTSCH HDP20 HOUSINGS

	REC, 20P, BLK, N, RNG, 16/20, P	PLG, 14P, BLK, N, RNG, 4/12/16, P	REC, 8P, BLK, N, RNG, 12, P	REC, 31P, BLK, T, THD, 16, S
TE Part #	HDP24-18-20PN-L017	HDP26-24-14PN-L017	HDP24-18-8PN-L017	HDP24-24-31ST-L015
Connector & Housing Type	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Female Terminals
Mating Pin Diameter	1.02 mm, 1.59 mm	1.59 mm, 2.39 mm, 5.72 mm	2.39 mm	1.59 mm
Number of Positions	20	14	8	31
Hybrid Connector	Yes	Yes	No	No
Contact Current Rating (Max)	7.5 A, 13 A	13 A, 25 A, 100 A	25 A	13 A
Connector Mounting Type	Bulkhead, Cable Mount (Free-Hanging), Panel Mount		Bulkhead, Cable Mount (Free-Hanging), Panel Mount	Bulkhead, Cable Mount (Free-Hanging), Panel Mount
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP

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Products (3 of 5)

	PLG, 23P, BLK, T, 16, P	PLG, 18P, BLK, N, RNG, 8/12/16, S	PLG, 21P, BLK, N, THD, 12/16, S	PLG, 18P, BLK, E, 8/12/16, P
TE Part #	HDP26-24-23PT	HDP26-24-18SN-L017	HDP26-24-21SN-L015	HDP26-24-18PE
Connector & Housing Type	Housing for Male Terminals	Housing for Female Terminals	Housing for Female Terminals	Housing for Male Terminals
Mating Pin Diameter	1.59 mm	1.59 mm, 2.39 mm, 3.61 mm	1.59 mm, 2.39 mm	1.59 mm, 2.39 mm, 3.61 mm
Number of Positions	23	18	21	18
Hybrid Connector	No	Yes	Yes	Yes
Contact Current Rating (Max)	13 A	13 A, 25 A, 60 A	13 A, 25 A	13 A, 25 A, 60 A
Connector Mounting Type				
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP

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Products (4 of 5)

	PLG, 35P, BLK, E, WTHD, 16 /20, S	PLG, 16P, BLK, N, RNG, 12, S	PLG, 23P, BLK, T, RNG, 16, S	REC, 21P, BLK, N, RNG, 12 /16, S
TE Part #	YHDP26-24-35SEL024	HDP26-24-16SN-L017	HDP26-24-23ST-L017	HDP24-24-21SN-L017
Connector & Housing Type	Housing for Female Terminals	Housing for Female Terminals	Housing for Female Terminals	Housing for Female Terminals
Mating Pin Diameter	1.02 mm, 1.59 mm	2.39 mm	1.59 mm	1.59 mm, 2.39 mm
Number of Positions	35	16	23	21
Hybrid Connector	Yes	No	No	Yes
Contact Current Rating (Max)	7.5 A, 13 A	25 A	13 A	13 A, 25 A
Connector Mounting Type				Bulkhead, Cable Mount (Free-Hanging), Panel Mount
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP

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Products (5 of 5)

	REC, 23P, BLK, T, 16, S	PLG, 9P, BLK, E, RNG, 4/8/12, P	REC, 19P, BLK, N, THD, 12/16, P	REC, 9P, BLK, E, WTHD, 8/12/16, P
TE Part #	HDP24-24-23ST	HDP26-24-9PE-L017	HDP24-24-19PN-L015	YHDP24-24-91PEL024
Connector & Housing Type	Housing for Female Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals
Mating Pin Diameter	1.59 mm	2.39 mm, 3.61 mm, 5.72 mm	1.59 mm, 2.39 mm	1.59 mm, 2.39 mm, 3.61 mm
Number of Positions	23	9	19	9
Hybrid Connector	No	Yes	Yes	Yes
Contact Current Rating (Max)	13 A	25 A, 60 A, 100 A	13 A, 25 A	13 A, 25 A, 60 A
Connector Mounting Type	Bulkhead, Cable Mount (Free-Hanging), Panel Mount		Bulkhead, Cable Mount (Free-Hanging), Panel Mount	Bulkhead, Cable Mount (Free-Hanging), Panel Mount
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	DEUTSCH	DEUTSCH	DEUTSCH	DEUTSCH
Series	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP	DEUTSCH HD,DEUTSCH HDP

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Related Materials

Flipbook Catalog

Industrial & Commercial Transportation - Terminals and Connectors (English)

TE's Industrial & Commercial Transportation Terminals and Connectors flipbook catalog features AMPSEAL, AMPSEAL 16, Circular DIN, DEUTSCH, HDSCS, LEAVYSEAL, and Superseal 1.0 connectors, contacts, tools, and accessories.

English

Product Specifications

DEUTSCH HDP20 Connectors Product Specifications (English)

This specification covers performance tests and quality requirements for DEUTSCH HDP20 connectors.

English

Connector Selector

Connector Selector (English)

The Connector Selector is a reference guide to TE Connectivity's (TE) Industrial & Commercial Transportation electrical connectors.

English

Also in the Series | DEUTSCH HD

Automotive Connector Caps & Covers (47)

Automotive Housings(670)

Automotive Seals & Cavity Plugs(10)

Insertion & Extraction Tools(12)

Other Automotive Connector Accessories(11)

Also in the Series | DEUTSCH HDP

Automotive Connector Caps & Covers (12)

Automotive Housings(289)

Insertion & Extraction Tools(12)

Other Automotive Connector Accessories(5)

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