DEUTSCH HD30 HOUSINGS

DEUTSCH | DEUTSCH HD, DEUTSCH HD30

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DEUTSCH HD30 housings offer color-coded wire seals in normal and extra thin walls.



Connectors > Automotive Connectors > Automotive Housings

DEUTSCH HD30 housings are circular shaped, metal connectors that are offered in multiple pin configurations from 2 to 47 cavities. HD30 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

Connector Position Assurance Capable: No

Circuit Application: Power & Signal

Operating Temperature Range: -55 - 125 °C

Series Overview

- Accepts contact sizes 4 (100 amps), 8 (60 amps), 12 (25 amps), 16 (13 amps), and 20 (7.5 amps)
- 6-22 AWG (13.00-0.35 mm2)
- 2, 6, 8, 9, 14, 16, 18, 19, 20, 21, 23, 29, 31, 33, 35, and 47 cavity arrangements
- In-line or flange mount
- Circular, aluminum 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 HD30 PRODUCTS

VIEW ALL DEUTSCH HD30 PRODUCTS

DEUTSCH HD30 connectors are constructed from a metal shell developed to meet the needs of the heavy-duty equipment and transportation industries.

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, Integrated in Housing
Connector & Contact Terminates To	Wire & Cable
Configuration Features	

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Number of Positions

6, 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, 42, 48, 80, 90, 125, 240
Body Features	
Cable Exit Angle	180°
Body Material	Aluminum, Other, PA GF
Primary Product Color	Blue, Green
Contact Features	
Mating Pin Diameter (mm)	1.02, 1.5, 1.56, 1.59, 2.39, 2.5, 3.61, 4, 5.72
Mating Pin Diameter (in)	.04, .059, .062, .0625, .094, .098, .142, .157, . 225
Contact Current Rating (Max) (A)	7.5, 13, 25, 60, 100



Mechanical Attachment

Mounting Feature	With, Without
Terminal Position Assurance	No
Strain Relief	Add By Accessory, No
Mating Alignment Type	Polarized
Connector Mounting Type	Bulkhead, Cable Mount (Free-Hanging), Panel Mount
Dimensions	
Product Width (mm)	42.97, 44.45, 49.32, 50.8
Product Width (in)	1.692, 1.75, 1.942, 2
Product Length (mm)	38.61, 41.83, 42.97, 65.28, 66.34, 68.5, 77.7, 81.05, 81.7, 84.28
Product Length (in)	1.52, 1.647, 1.692, 2.57, 2.612, 2.697, 3.059, 3.191, 3.217, 3.318
Product Height (mm)	41.28, 42.97, 47.53, 49.32, 81.05, 116.74
Product Height (in)	1.625, 1.692, 1.875, 1.942, 3.191, 4.596
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
Accepts Wire Insulation Diameter Range (in)	.04083, .04095, .053103, .053106, . 05312, .088106, .088134, .097158, 1134, .13417, .13522, .1924, .261 - .292, .28292
Usage Conditions	
Operating Temperature (Max) (°C)	70, 75, 80, 85, 90, 100, 105, 110, 120, 125
Operating Temperature (Max) (°F)	158, 167, 176, 185, 194, 212, 221, 230, 248, 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
Packaging Features	
Packaging Quantity	1, 80, 100, 160, 200



Packaging Method	Box, Package
Other	
Serviceable	Yes
Connector Position Assurance Capable	No
Reference Number	
TE Internal Number	CAT-H3930-CH8172

SEE PRODUCTS ON NEXT PAGE

DEUTSCH HD30 HOUSINGS



Products (1 of 5)









REC,16P,AL,N,CBL CLMP BT, REC, 18P, AL, N, THD ADPT REC, 19P, AL, N, CBLCLMP BT, REC, 14P, AL, N, THD ADPT, DRAIN,8/12/16,P NODRAIN, 16, S NODRAIN, 12, S, MC DRAIN, 12/16, P, MC TE Part # HD34-24-19PN-059 HD34-18-14SN-L005 HD34-24-16SN-L006 HD34-24-18PN-072 Housing for Female Housing for Female Housing for Male Terminals Housing for Male Terminals Connector & Housing Type Terminals Terminals 1.59 mm, 2.39 mm, 3.61 mm 1.59 mm, 2.39 mm Mating Pin Diameter 1.59 mm 2.39 mm Number of Positions 14 16 18 19 Hybrid Connector No No Yes Yes Primary Locking Feature Contact Retainer Contact Retainer **Contact Retainer Contact Retainer Operating Temperature** 125 °C 125 °C 125 °C 125 °C (Max) **Primary Product Color** Nominal Voltage 12 V, 24 V 12 V, 24 V 12 V, 24 V 12 V, 24 V Architecture **Connector & Contact** Wire & Cable Wire & Cable Wire & Cable Wire & Cable **Terminates To Contact Current Rating** 13 A 25 A 13 A, 25 A, 60 A 13 A, 25 A (Max) Bulkhead, Cable Mount Bulkhead, Cable Mount Bulkhead, Cable Mount Bulkhead, Cable Mount Connector Mounting Type (Free-Hanging), Panel Mount (Free-Hanging), Panel Mount (Free-Hanging), Panel Mount (Free-Hanging), Panel Mount EU RoHS Directive 2011/65 **EU RoHS** Compliant FU RoHS Compliant **FU RoHS** Compliant FU RoHS Compliant

/EU	LU KUI IS COMPIIAIL	LO KONS COmpliant	LU KUHS COmpliant	Lo Rons 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 HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30

*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



Products (2 of 5)









REC,23P,AL,T, CBL CLMP REC,33P,AL,N, CBL CLMP REC,9P,AL,N,CBL CLMP, REC,33P,AL,N, CBL CLMP BT, DRAIN, 20, S, MC NODRAIN,4/8/12,S,MC BT, DRAIN, 16, S, MC BT, DRAIN, 20, P, MC TE Part # HD34-24-33PN-059 HD34-24-9SN-L006 HD34-24-23ST-059 HD34-24-33SN-059 Housing for Female Housing for Female Housing for Male Terminals Housing for Female Connector & Housing Type Terminals Terminals Terminals 1.02 mm Mating Pin Diameter 1.59 mm 1.02 mm 2.39 mm, 3.61 mm, 5.72 mm Number of Positions 23 33 33 9 Hybrid Connector No No No Yes Primary Locking Feature Contact Retainer Contact Retainer **Contact Retainer Contact Retainer Operating Temperature** 125 °C 125 °C 125 °C 125 °C (Max) **Primary Product Color** Nominal Voltage 12 V, 24 V 12 V, 24 V 12 V, 24 V 12 V, 24 V Architecture **Connector & Contact** Wire & Cable Wire & Cable Wire & Cable Wire & Cable Terminates To **Contact Current Rating** 13 A 7.5 A 7.5 A 25 A, 60 A, 100 A (Max) Bulkhead, Cable Mount Bulkhead, Cable Mount Bulkhead, Cable Mount Bulkhead, Cable Mount Connector Mounting Type (Free-Hanging), Panel Mount (Free-Hanging), Panel Mount (Free-Hanging), Panel Mount (Free-Hanging), Panel Mount EU RoHS Directive 2011/65 **EU RoHS** Compliant FU RoHS Compliant **FU RoHS** Compliant FU RoHS Compliant

/EU	LU KUI IS COMPIIAIL	LO KONS COmpliant	LU KUHS COmpliant	Lo Rons 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 HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30

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**EU ELV Directive 2000/53/EC



Products (3 of 5)









PLG, 8P, AL, E, 12, P

	PLG, 20P, AL, N, THD ADPT, DRAIN,16/20,S	PLG, 8P, AL, E, 12, P	PLG,16P,AL,N,CBL CLMP BT, NODRAIN,12,P,MC	PLG, 31P, AL, E, THD ADPT, NO DRAIN,16,S
TE Part #	HD36-18-20SN-072	HD36-18-8PE	HD36-24-16PN-L006	HD36-24-31SE-L005
Connector & Housing Type	Housing for Female Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Female Terminals
Mating Pin Diameter	1.02 mm, 1.59 mm	2.39 mm	2.39 mm	1.59 mm
Number of Positions	20	8	16	31
Hybrid Connector	Yes	No	No	No
Primary Locking Feature	Contact Retainer	Contact Retainer	Contact Retainer	Contact Retainer
Operating Temperature (Max)	125 °C	125 °C	125 °C	125 °C
Primary Product Color				
Nominal Voltage Architecture	12 V, 24 V	12 V, 24 V	12 V, 24 V	12 V, 24 V
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Wire & Cable	Wire & Cable
Contact Current Rating (Max)	7.5 A, 13 A	25 A	25 A	13 A
Connector Mounting Type				
EU RoHS Directive 2011/65	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant

FU FLV Directive 2000/53/FC

/EU

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 HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30

*EU RoHS Directive 2011/65/EU

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**EU ELV Directive 2000/53/EC

DEUTSCH HD30 HOUSINGS



Products (4 of 5)









PLG, 31P, AL, T, THD ADPT, REC,21P,AL,N, CBL CLMP REC, 19P, AL, E, 12/16, S REC,21P,AL,N,CBLCLMP BT, DRAIN,12/16,S,MC NO DRAIN, 16, S BT, DRAIN, 20, S, MC TE Part # HD34-24-21SN-059 HD36-24-31ST-L005 HD34-18-21SN-059 HD34-24-19SE Housing for Female Housing for Female Housing for Female Housing for Female Connector & Housing Type Terminals Terminals Terminals Terminals 1.59 mm, 2.39 mm 1.59 mm, 2.39 mm Mating Pin Diameter 1.59 mm 1.02 mm Number of Positions 31 21 19 21 Hybrid Connector No No Yes Yes Primary Locking Feature **Contact Retainer** Contact Retainer Contact Retainer **Contact Retainer Operating Temperature** 125 °C 125 °C 125 °C 125 °C (Max) Primary Product Color Nominal Voltage 12 V, 24 V 12 V, 24 V 12 V, 24 V 12 V, 24 V Architecture **Connector & Contact** Wire & Cable Wire & Cable Wire & Cable Wire & Cable Terminates To **Contact Current Rating** 13 A 7.5 A 13 A, 25 A 13 A, 25 A (Max) Bulkhead, Cable Mount Bulkhead, Cable Mount Bulkhead, Cable Mount Connector Mounting Type (Free-Hanging), Panel Mount (Free-Hanging), Panel Mount (Free-Hanging), Panel Mount EU RoHS Directive 2011/65

/EU ROHS Directive 2011/65	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 HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30

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**EU ELV Directive 2000/53/EC



Products (5 of 5)









REC, 14P, AL, N, 4/12/16, P PLG,14P,AL,N,CBL CLMP BT, REC, 23P, AL, N, THD ADPT REC, 35P, AL, N, 16/20, P DR,4/12/16,S,MC **DRAIN**, 16, P TE Part # HD34-24-23PN-072 HD34-24-14PN HD36-24-14SN-059 HD34-24-35PN Housing for Male Terminals Housing for Female Housing for Male Terminals Housing for Male Terminals Connector & Housing Type Terminals Mating Pin Diameter 1.59 mm, 2.39 mm, 5.72 mm 1.59 mm, 2.39 mm, 5.72 mm 1.59 mm 1.02 mm, 1.59 mm Number of Positions 14 14 23 35 Hybrid Connector Yes Yes No Yes Primary Locking Feature Contact Retainer Contact Retainer Contact Retainer **Contact Retainer Operating Temperature** 125 °C 125 °C 125 °C 125 °C (Max) **Primary Product Color** Nominal Voltage 12 V, 24 V 12 V, 24 V 12 V, 24 V 12 V, 24 V Architecture **Connector & Contact** Wire & Cable Wire & Cable Wire & Cable Wire & Cable Terminates To **Contact Current Rating** 13 A 13 A, 25 A, 100 A 13 A, 25 A, 100 A 7.5 A, 13 A (Max)

Connector Mounting TypeBulkhead, Cable MountBulkhead, Cable MountBulkhead, Cable MountEU RoHS Directive 2011/65EU RoHS CompliantEU RoHS CompliantEU RoHS CompliantEU RoHS Compliant

/EU	LO KONS COmpliant	LO KONS COmpliant	LO KONS Compliant	Lo Rons 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 HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30

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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

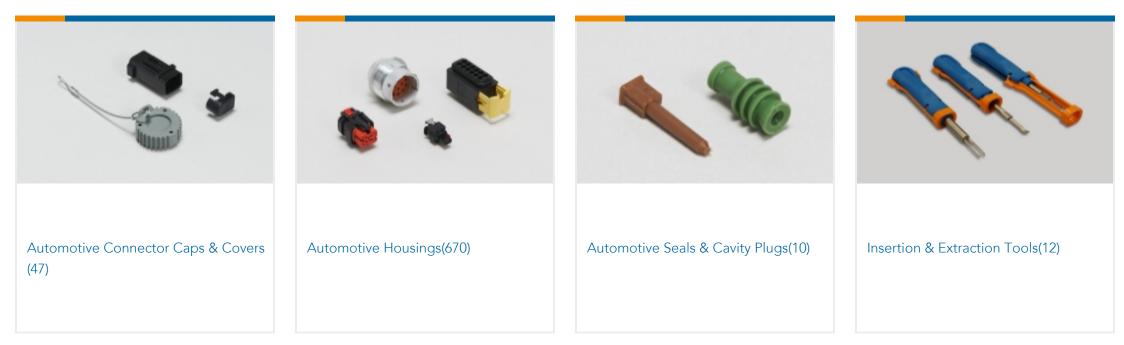
Connector Selector

Connector Selector (English)

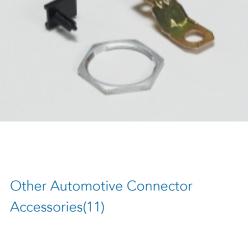
The Connector Selector is a reference guide to TE Connectivity's (TE) Industrial & Commercial Transportation electrical connectors.

English

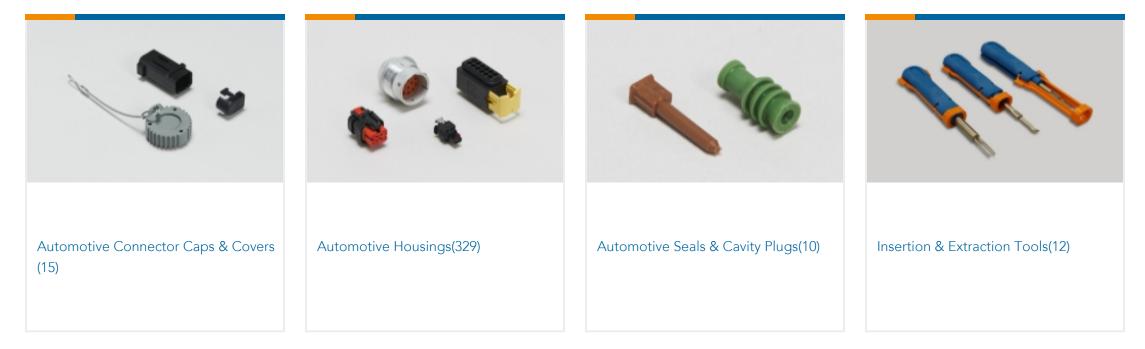
Also in the Series | DEUTSCH HD



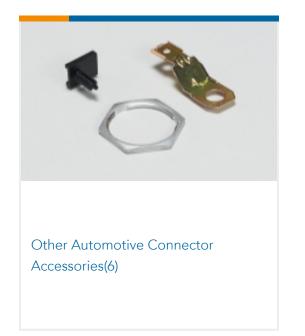




Also in the Series | DEUTSCH HD30







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