

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

Blank Cavity Position	0
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)	.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

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
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Industry Standards

Degree of Protection	IP67
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Packaging Features

Packaging Quantity	1, 80, 100, 160, 200
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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

Products (1 of 5)



REC, 14P, AL, N, THD ADPT,
NODRAIN, 16, S



REC, 16P, AL, N, CBL CLMP BT,
NODRAIN, 12, S, MC



REC, 18P, AL, N, THD ADPT
DRAIN, 8/12/16, P



REC, 19P, AL, N, CBL CLMP BT,
DRAIN, 12/16, P, MC

TE Part #	HD34-18-14SN-L005	HD34-24-16SN-L006	HD34-24-18PN-072	HD34-24-19PN-059
Connector & Housing Type	Housing for Female Terminals	Housing for Female Terminals	Housing for Male Terminals	Housing for Male Terminals
Mating Pin Diameter	1.59 mm	2.39 mm	1.59 mm, 2.39 mm, 3.61 mm	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 (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)	13 A	25 A	13 A, 25 A, 60 A	13 A, 25 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 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**

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.



Products (2 of 5)



**REC,23P,AL,T, CBL CLMP
BT, DRAIN,16,S,MC**



**REC,33P,AL,N, CBL CLMP
BT, DRAIN,20,P,MC**



**REC,33P,AL,N, CBL CLMP
BT, DRAIN,20,S,MC**



**REC,9P,AL,N,CBL CLMP,
NODRAIN,4/8/12,S,MC**

TE Part #	HD34-24-23ST-059	HD34-24-33PN-059	HD34-24-33SN-059	HD34-24-9SN-L006
Connector & Housing Type	Housing for Female Terminals	Housing for Male Terminals	Housing for Female Terminals	Housing for Female Terminals
Mating Pin Diameter	1.59 mm	1.02 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 (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)	13 A	7.5 A	7.5 A	25 A, 60 A, 100 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 HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30	DEUTSCH HD,DEUTSCH HD30

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Products (3 of 5)



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	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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Products (4 of 5)



PLG, 31P, AL, T, THD ADPT,
NO DRAIN, 16, S



REC, 21P, AL, N, CBL CLMP
BT, DRAIN, 20, S, MC



REC, 19P, AL, E, 12/16, S



REC, 21P, AL, N, CBL CLMP BT,
DRAIN, 12/16, S, MC

TE Part #	HD36-24-31ST-L005	HD34-18-21SN-059	HD34-24-19SE	HD34-24-21SN-059
Connector & Housing Type	Housing for Female Terminals	Housing for Female Terminals	Housing for Female Terminals	Housing for Female Terminals
Mating Pin Diameter	1.59 mm	1.02 mm	1.59 mm, 2.39 mm	1.59 mm, 2.39 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 (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)	13 A	7.5 A	13 A, 25 A	13 A, 25 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 HD30	DEUTSCH HD, DEUTSCH HD30	DEUTSCH HD, DEUTSCH HD30	DEUTSCH HD, DEUTSCH HD30

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Products (5 of 5)



REC, 14P, AL, N, 4/12/16, P



PLG,14P,AL,N,CBL CLMP BT, DR,4/12/16,S,MC



REC, 23P, AL, N, THD ADPT DRAIN, 16, P



REC, 35P, AL, N, 16/20, P

TE Part #	HD34-24-14PN	HD36-24-14SN-059	HD34-24-23PN-072	HD34-24-35PN
Connector & Housing Type	Housing for Male Terminals	Housing for Female Terminals	Housing for Male Terminals	Housing for Male 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 (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)	13 A, 25 A, 100 A	13 A, 25 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
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 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



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 HD30



Automotive Connector Caps & Covers (15)



Automotive Housings(329)



Automotive Seals & Cavity Plugs(10)



Insertion & Extraction Tools(12)



Other Automotive Connector
Accessories(6)

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