

DEUTSCH DRC HOUSINGS

DEUTSCH | DEUTSCH DRC

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DEUTSCH DRC housings are available in several mounting options including in-line, flange, and PCB mount.



[Connectors >](#) [Automotive Connectors >](#) [Automotive Housings](#)

DEUTSCH DRC housings are rugged rectangular connectors that are available in 24-70 cavities and feature a jackscrew for mating. They accept size 16 and 20 DEUTSCH contacts that are rated for 13 and 7.5 amps.



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

Sealable: **Yes**

Primary Product Color: **Black**

Connector Position Assurance Capable: **No**

Operating Temperature Range: **-55 - 125 °C**

Series Overview

- Accepts contact sizes 16 (13 amps), and 20 (7.5 amps)
- 14-22 AWG (2.50-0.35 mm²)
- 24, 40, 50, 60, 64, and 70 cavity arrangements
- In-line, flange, or PCB mount
- Rectangular, thermoplastic housing
- Jackscrew for mating

[DEUTSCH DRC Connector Overview & Assembly Instructions \(English\)](#)

Learn about our high-pin count DEUTSCH DRC connectors for harsh environment applications. 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.

Additional DEUTSCH DRC products

[VIEW ALL DEUTSCH DRC PRODUCTS](#)

DEUTSCH DRC connectors are designed for high-pin count, harsh environment applications.

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	24, 38, 40, 50, 60, 70
Number of Rows	4, 5, 6, 7

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	PA, PA GF, PEI (Polyetherimide), PPS GF
Primary Product Color	Black
Connector Code	01, 02, 03, 04, 05, 06, 07, 08, A, B, C, D

Contact Features

Mating Pin Diameter (mm)	1, 1.02, 1.59, 2.39
Mating Pin Diameter (in)	.039, .04, .0625, .094
Contact Current Rating (Max) (A)	7.5, 13, 25

Mechanical Attachment

Mounting Feature	With, Without
Terminal Position Assurance	No
Strain Relief	Add By Accessory, Yes
Mating Alignment Type	Polarized
Connector Mounting Type	Bulkhead, Cable Mount (Free-Hanging), Panel Mount

Housing Features

Centerline (Pitch) (mm)	4.4, 4.42, 5.41, 5.49
Centerline (Pitch) (in)	.174, .213, .216

Dimensions

Product Width (mm)	46.43, 49.38, 50.9, 50.93, 52.53, 53.34, 54.71, 68.58, 70.36, 72.85, 73.86, 77.22, 97.54, 103.99, 126.82
Product Width (in)	1.828, 1.944, 2, 2.004, 2.068, 2.1, 2.154, 2.7, 2.77, 2.868, 2.908, 3.04, 3.84, 4.094, 4.993
Product Length (mm)	27.94, 32.36, 36.58, 36.78, 38.1, 40.44, 40.51, 40.56, 40.64, 41.71, 41.73, 43.15, 44.25, 44.63, 45.69, 50.83
Product Length (in)	1.1, 1.274, 1.44, 1.448, 1.5, 1.592, 1.595, 1.597, 1.6, 1.642, 1.643, 1.699, 1.742, 1.757, 1.799, 2.001
Product Height (mm)	29.16, 30.53, 32.64, 36.06, 36.09, 36.45, 45.16, 48.11, 51.26, 53.09, 53.29, 58.93, 93.98
Product Height (in)	1.148, 1.202, 1.285, 1.421, 1.435, 1.778, 1.894, 2.018, 2.09, 2.098, 2.32, 3.7
Row-to-Row Spacing (mm)	4.42, 5.41, 5.49
Row-to-Row Spacing (in)	.174, .213, .216
Accepts Wire Insulation Diameter Range (mm)	1.02 - 2.41, 1.35 - 3.05, 2.46 - 4.95, 2.54 - 3.4
Accepts Wire Insulation Diameter Range (in)	.04 - .095, .053 - .12, .097 - .17, .1 - .134

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, Signal
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Industry Standards

Agency/Standard	SAE J2030
Degree of Protection	IP68, IP6K9K, Not Tested
UL Flammability Rating	20mm Flame Test per Standard UL-94, UL 94HB

Packaging Features

Packaging Quantity	21, 50, 60, 100, 125
Packaging Method	Box

Other

Serviceable	Yes
Connector Position Assurance Capable	No

Reference Number

TE Internal Number	CAT-D799-CH8172
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SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)



PLG, 24P, BLK, N, C



PLG, 40P, BLK, N, C



PLG, 40P, BLK, N, C



PLG, 40P, BLK, E, B

TE Part #	DRC16-24SC	DRC18-40SC	AEC16-40SC	DRC18-40SBE
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	1.59 mm	1.59 mm	1.59 mm
Number of Positions	24	40	40	40
Centerline (Pitch)	5.49 mm	5.49 mm	5.41 mm	5.49 mm
Hybrid Connector	No	No	No	No
Primary Locking Feature	Contact Retainer	Contact Retainer	Integrated in Housing	Contact Retainer
Operating Temperature (Max)	125 °C	125 °C	125 °C	125 °C
Number of Rows	4	4	7	4
Nominal Voltage Architecture	12 V, 24 V, 48 V	12 V, 24 V, 48 V	12 V, 24 V	12 V, 24 V, 48 V
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Wire & Cable	Wire & Cable
Contact Current Rating (Max)	13 A	13 A	13 A	13 A
Circuit Application	Power & Signal	Power & Signal	Power & Signal	Power & Signal
Connector Mounting Type	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)
Connector Code	C	C	C	B
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 DRC	DEUTSCH DRC	DEUTSCH DRC	DEUTSCH DRC

***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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Products (2 of 5)



REC, 24P, BLK, E, FLANGE, C

REC, 24P, BLK, N, FLANGE, C

REC, 40P, BLK, N, B

PLG, 70P, BLK, E, SEAL BOND, B

TE Part #	DRC12-24PCE	DRC12-24PC	AEC14-40PB	DRC16-70SBE-P013UK
Connector & Housing Type	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Female Terminals
Mating Pin Diameter	1.59 mm	1.59 mm	1.59 mm	1.59 mm
Number of Positions	24	24	40	70
Centerline (Pitch)	5.49 mm	5.49 mm	5.41 mm	5.49 mm
Hybrid Connector	No	No	No	No
Primary Locking Feature	Contact Retainer	Contact Retainer	Integrated in Housing	Contact Retainer
Operating Temperature (Max)	125 °C	125 °C	125 °C	125 °C
Number of Rows	4	4	7	5
Nominal Voltage Architecture	12 V, 24 V, 48 V	12 V, 24 V, 48 V	12 V, 24 V	12 V, 24 V, 48 V
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Wire & Cable	Wire & Cable
Contact Current Rating (Max)	13 A	13 A	13 A	13 A
Circuit Application	Power & Signal	Power & Signal	Power & Signal	Power & Signal
Connector Mounting Type	Bulkhead, Panel Mount	Bulkhead, Panel Mount	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)
Connector Code	C	C	B	B
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 DRC	DEUTSCH DRC	DEUTSCH DRC	DEUTSCH DRC

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Products (3 of 5)



PLG, 24P, BLK, N, SEAL BOND, B



REC, 70P, BLK, N, A



REC, 40P, BLK, E, FLANGE, B



PLG, 70P, BLK, N, SEAL BOND, B

TE Part #	DRC16-24SB-P013	DRC14-70PA	DRC12-40PBE	DRC16-70SB-P013
Connector & Housing Type	Housing for Female Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Female Terminals
Mating Pin Diameter	1.59 mm	1.59 mm	1.59 mm	1.59 mm
Number of Positions	24	70	40	70
Centerline (Pitch)	5.49 mm	5.49 mm	5.49 mm	5.49 mm
Hybrid Connector	No	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
Number of Rows	4	5	4	5
Nominal Voltage Architecture	12 V, 24 V, 48 V	12 V, 24 V, 48 V	12 V, 24 V, 48 V	12 V, 24 V, 48 V
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Wire & Cable	Wire & Cable
Contact Current Rating (Max)	13 A	13 A	13 A	13 A
Circuit Application	Power & Signal	Power & Signal	Power & Signal	Power & Signal
Connector Mounting Type	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)	Bulkhead, Panel Mount	Cable Mount (Free-Hanging)
Connector Code	B	A	B	B
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 DRC	DEUTSCH DRC	DEUTSCH DRC	DEUTSCH DRC

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Products (4 of 5)



REC, 70P, BLK, E, FLANGE, B



PLG, 24P, BLK, N, B



PLG, 50P, BLK, N, 03



PLG, 40P, BLK, N, A

TE Part #	DRC12-70PBE	DRC16-24SB	DRC26-50S03	DRC18-40SA
Connector & Housing Type	Housing for Male Terminals	Housing for Female Terminals	Housing for Female Terminals	Housing for Female Terminals
Mating Pin Diameter	1.59 mm	1.59 mm	1.02 mm	1.59 mm
Number of Positions	70	24	50	40
Centerline (Pitch)	5.49 mm	5.49 mm	4.42 mm	5.49 mm
Hybrid Connector	No	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
Number of Rows	5	4	5	4
Nominal Voltage Architecture	12 V, 24 V, 48 V	12 V, 24 V, 48 V	24 V, 48 V	12 V, 24 V, 48 V
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Wire & Cable	Wire & Cable
Contact Current Rating (Max)	13 A	13 A	7.5 A	13 A
Circuit Application	Power & Signal	Power & Signal	Signal	Power & Signal
Connector Mounting Type	Bulkhead, Panel Mount	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)
Connector Code	B	B	03	A
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 DRC	DEUTSCH DRC	DEUTSCH DRC	DEUTSCH DRC

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Products (5 of 5)



PLG, 50P, BLK, N, 05



PLG, 70P, BLK, E, B



PLG, 70P, BLK, N, B



REC, 40P, BLK, N, A

TE Part #	DRC26-50S05	DRC16-70SBE	DRC16-70SB	DRC14-40PA
Connector & Housing Type	Housing for Female Terminals	Housing for Female Terminals	Housing for Female Terminals	Housing for Male Terminals
Mating Pin Diameter	1.02 mm	1.59 mm	1.59 mm	1.59 mm
Number of Positions	50	70	70	40
Centerline (Pitch)	4.42 mm	5.49 mm	5.49 mm	5.49 mm
Hybrid Connector	No	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
Number of Rows	5	5	5	4
Nominal Voltage Architecture	24 V, 48 V	12 V, 24 V, 48 V	12 V, 24 V, 48 V	12 V, 24 V, 48 V
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Wire & Cable	Wire & Cable
Contact Current Rating (Max)	7.5 A	13 A	13 A	13 A
Circuit Application	Signal	Power & Signal	Power & Signal	Power & Signal
Connector Mounting Type	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)
Connector Code	05	B	B	A
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 DRC	DEUTSCH DRC	DEUTSCH DRC	DEUTSCH DRC

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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 DRC



Automotive Connector Caps & Covers (9)



Automotive Headers(34)



Automotive Housings(84)



Insertion & Extraction Tools(8)

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