

# DEUTSCH DT Receptacle Connectors



[View on TE.com >](#)

Connectors > Automotive Connectors > Automotive Housings

Our DEUTSCH DT Receptacle connectors are female terminals. Available in 2, 3, 4-, 6-, 8, and 12-cavity designs, our DEUTSCH DT offers reliability and performance under harsh environments.



Operating Temperature (Max): 125 °C

Connector Position Assurance Capable: No

Operating Temperature Range: -55 - 125 °C

## Series Overview

- Accepts contact size 16 (13 amps)
- 14-20 AWG (2.50-0.50 mm<sup>2</sup>)
- 2, 3, 4, 6, 8, and 12 cavity arrangements
- In-line, flange, or PCB mount
- Rectangular, thermoplastic housing
- Integrated latch for mating
- Wedgelocks confirm contact alignment and retention
- Available accessories: Backshells, boots, dust caps, gaskets, mounting clips

## DEUTSCH DT Family Connector Overview & Assembly Instructions (English)

Learn about our field proven DEUTSCH DT, DTM, and DTP 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 DT products

### [VIEW ALL DEUTSCH DT PRODUCTS](#)

DEUTSCH DT connectors offer field proven reliability and rugged quality. The DT design strengths include optional flange mounting, multi-pin arrangements, and design flexibility.

## Features

### Product Type Features

Mixed & Hybrid Connector	No
Connector Shape	Rectangular, Triangular

Connector System	Bus Bar-to-Wire, Wire-to-Panel, Wire-to-Wire
Connector & Housing Type	Housing for Female Terminals, Housing for Male Terminals, Receptacle
Sealable	No, Yes
Connector & Contact Terminates To	Bus Bar, Wire & Cable
Primary Locking Feature	Integrated in Housing

### Configuration Features

Blank Cavity Position	0, 1, 10, 11, 12, 2, 3, 4, 5, 6, 7, 8, 9
Connector Modification	(1) 12 Pin Buss, (1) 3 Pin Buss & (1) 5 Pin Buss, (1) 4 Pin Buss, (1) 6 Pin Buss, (1) 8 Pin Buss, (2) 3 Pin Busses, (2) 4 Pin Busses, (2) 6 Pin Busses, (3) 4 Pin Busses, (4) 3 Pin Busses, End Cap, J1939, J1939, Terminating Resistor, Molded-In Diode (MUR460), Sealed Flange, End Cap, Sealed Flange, End Cap, One Piece Design, Sealed Flange, Gasket (Sold Separately), End Cap, Sealed Flange, Shrink Boot Adapter, Shrink Boot Adapter, Solid Rear Grommet, Solid Rear Grommet, End Cap, Terminating Resistor, Two Molded-In Diodes (MUR460), Welded Flange, Welded Flange, End Cap, Welded Flange, Shrink Boot Adapter
Connector Seal Code	E Seal, N Seal
Number of Positions	2, 3, 4, 6, 8, 12, 48, 102
Number of Rows	1, 2, 3, 8, 12

### Electrical Characteristics

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

### Body Features

Cable Exit Angle	180°
Primary Product Color	Black, Brown, Gray, Green
Connector & Keying Code	A, B, C, D

### Contact Features

Contact Size	Size 16
Contact Type	Pin, Receptacle

Mating Pin Diameter (mm)	1.5, 1.55, 1.57, 1.59, 1.6, 2.39, 3.61, 5.72
Mating Pin Diameter (in)	.06, .061, .062, .063, .094, .142, .225
Contact Current Rating (Max) (A)	13

### Mechanical Attachment

Terminal Position Assurance	No, Yes
Strain Relief	Add By Accessory, Without
Mating Alignment Type	Keyed, Not Keyed, Polarization, Polarized
Mating Alignment	With, Without
Connector Mounting Type	Bus Bar Mount, Cable Mount (Free-Hanging), Panel Mount

### Housing Features

Housing Material	PA GF, PA66 GF15
Centerline (Pitch) (mm)	3.81, 4.44, 4.45, 4.47, 4.5, 5.46, 8.66, 8.7, 8.9, 9.09, 9.1, 9.12
Centerline (Pitch) (in)	.15, .175, .176, .178, .215, .34, .341, .35, .358, .359

### Dimensions

Connector Height (mm)	17.02, 19.71, 22.2, 22.25, 23.88, 24.16, 24.69, 24.71, 25.3, 25.4, 27.26, 31.7, 31.75, 32, 35.51, 35.56, 38.1, 38.99, 44.07, 45.7, 45.9, 45.93, 46.18, 46.9, 50.62, 54.74, 60.25
Connector Height (in)	.67, .776, .874, .876, .94, .951, .972, .973, .996, 1, 1.073, 1.24, 1.25, 1.26, 1.398, 1.4, 1.5, 1.535, 1.735, 1.79, 1.8, 1.808, 1.818, 1.85, 1.993, 2.155, 2.372
Product Width (mm)	17.02, 17.15, 20.83, 21.13, 24.71, 25.3, 25.4, 27.43, 30.99, 31.7, 32, 35.5, 36.45, 40.5, 40.51, 40.56, 43.1, 44, 54.99, 55.12, 57.3, 59, 64.52, 76.2, 88.34
Product Width (in)	.67, .675, .82, .832, .973, .996, 1, 1.08, 1.22, 1.25, 1.26, 1.39, 1.435, 1.59, 1.595, 1.597, 1.67, 1.732, 2.165, 2.17, 2.256, 2.32, 2.54, 3, 3.478
Product Length (mm)	17.15, 21.15, 33.91, 36.4, 36.65, 40.5, 43.13, 43.38, 44.65, 45.67, 45.92, 45.93, 46.18, 46.94, 47.19, 47.45, 47.57, 48.01, 48.32, 50.62, 51.89, 52.37, 55, 55.4, 56.29, 56.67, 57.18, 58.19, 58.2, 59, 60.91, 62.89, 64.9, 135.89
Product Length (in)	.675, .833, 1.335, 1.43, 1.443, 1.59, 1.6,

1.698, 1.708, 1.758, 1.798, 1.808, 1.818,  
1.848, 1.858, 1.868, 1.873, 1.89, 1.993, 2.043,  
2.062, 2.16, 2.181, 2.216, 2.231, 2.251, 2.29,  
2.291, 2.296, 2.323, 2.398, 2.476, 2.555, 5.35

Row-to-Row Spacing (mm)	4.45, 8.89, 9.12
Row-to-Row Spacing (in)	.175, .35, .359
Compatible Insulation Diameter Range (mm)	1.3 - 3, 1.3 - 3., 1.35 - 3.05, 1.4 - 3.8, 2.2 - 3.7, 2.23 - 3.68, 2.24 - 3.68
Compatible Insulation Diameter Range (in)	.053 - .12, .055 - .15, .088 - .145
Wire Size (AWG)	20 - 14
Wire Size (mm <sup>2</sup> )	.52 - 1.3

### 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, Power & Signal
---------------------	-----------------------

### Industry Standards

Degree of Protection	IP68, IP6K9K
Compatible With Agency/Standards Products	SAE J2030
UL Flammability Rating	12mm Flame Test per Standard UL-94, Not tested, UL 94V-0

### Packaging Features

Packaging Quantity	1, 60, 80, 96, 100, 170, 175, 200, 250, 300, 350, 400, 450, 500, 550, 600, 700, 750, 800, 850, 950, 1000
Packaging Method	Bag, Box, Package

### Other

Serviceable	No, Yes
Connector Position Assurance Capable	No

### Reference Number

TE Internal Number	CAT-J41-DDRC
--------------------	--------------

SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)



REC, 12P, BLK, E, ENH KEY, XCAP, FLANGE, A



REC, 12P, GRY, BUSBAR 1X12, GOLD, A



REC, 4P, GRY, BUSBAR, NICKEL



REC, 3P, BLK, N, XCAP, FLANGE

TE Part #	DT04-12PA-BL10	DT04-12PA-P016	DT04-4P-P021	DT04-3P-LE12
Connector System	Wire-to-Wire	Bus Bar-to-Wire	Bus Bar-to-Wire	Wire-to-Wire
Number of Positions	12	12	4	3
Connector & Housing Type	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals
Centerline (Pitch)	4.44 mm	4.44 mm	4.47 mm	8.7 mm
Sealable	Yes	Yes	Yes	Yes
Mating Pin Diameter	1.59 mm	1.59 mm	1.59 mm	1.59 mm
Number of Rows	2	2	2	2
Primary Product Color	Black	Gray	Gray	Black
Connector & Contact Terminates To	Wire & Cable	Bus Bar, Wire & Cable	Bus Bar, Wire & Cable	Wire & Cable
Contact Current Rating (Max)	13 A	13 A	13 A	13 A
Circuit Application	Power	Power	Power	Power
Connector Mounting Type	Panel Mount	Bus Bar Mount	Bus Bar Mount	Panel Mount
Nominal Voltage Architecture	250 V	250 V	250 V	250 V
Primary Locking Feature	Integrated in Housing	Integrated in Housing	Integrated in Housing	Integrated in Housing
Connector & Keying Code	A	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

**\*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, 12P, GRN, E, CAP, C



REC, 12P, BRN, N, D



REC, 8P, GRY, BUSBAR 1X8, NICKEL, A



REC, 12P, GRY, BUSBAR 1X12, NICKEL, A

TE Part #	DT04-12PC-CE01	DT04-12PD	DT04-08PA-P021	DT04-12PA-P021
Connector System	Wire-to-Wire	Wire-to-Wire	Bus Bar-to-Wire	Bus Bar-to-Wire
Number of Positions	12	12	8	12
Connector & Housing Type	Housing for Male Terminals	Housing for Male Terminals	Housing for Female Terminals	Housing for Male Terminals
Centerline (Pitch)	4.44 mm	4.44 mm	9.09 mm	4.44 mm
Sealable	Yes	Yes	Yes	Yes
Mating Pin Diameter	1.59 mm	1.59 mm	1.57 mm	1.59 mm
Number of Rows	2	2	2	2
Primary Product Color	Green	Brown	Gray	Gray
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Bus Bar, Wire & Cable	Bus Bar, Wire & Cable
Contact Current Rating (Max)	13 A	13 A	13 A	13 A
Circuit Application	Power	Power	Power	Power
Connector Mounting Type	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)	Bus Bar Mount	Bus Bar Mount
Nominal Voltage Architecture	250 V	250 V	250 V	250 V
Primary Locking Feature	Integrated in Housing	Integrated in Housing	Integrated in Housing	Integrated in Housing
Connector & Keying Code	C	D	A	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

**\*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 (3 of 5)



REC, 12P, GRY, N, CAP, A



REC, 6P, BLK, E, CAP, FLANGE



REC, 12P, GRY, N, XCAP, A



REC, 12P, GRY, BUSBAR 4X3, NICKEL, A

TE Part #	DT04-12PA-E003	DT04-6P-CL09	DT04-12PA-E008	DT04-12PA-P030
Connector System	Wire-to-Wire	Wire-to-Wire	Wire-to-Wire	Bus Bar-to-Wire
Number of Positions	12	6	12	12
Connector & Housing Type	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals
Centerline (Pitch)	4.44 mm	3.81 mm	4.44 mm	4.44 mm
Sealable	Yes	Yes	Yes	Yes
Mating Pin Diameter	1.59 mm	1.59 mm	1.59 mm	1.59 mm
Number of Rows	2	2	2	2
Primary Product Color	Gray	Black	Gray	Gray
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Wire & Cable	Bus Bar, Wire & Cable
Contact Current Rating (Max)	13 A	13 A	13 A	13 A
Circuit Application	Power	Power	Power	Power
Connector Mounting Type	Cable Mount (Free-Hanging)	Panel Mount	Cable Mount (Free-Hanging)	Bus Bar Mount
Nominal Voltage Architecture	250 V	250 V	250 V	250 V
Primary Locking Feature	Integrated in Housing	Integrated in Housing	Integrated in Housing	Integrated in Housing
Connector & Keying Code	A		A	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

**\*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 (4 of 5)



REC, 12P, GRN, N, C



REC, 12P, GRY, N, CAP, FLANGE, A



REC, 12P, BLK, N, ENH KEY, B



REC, 12P, BLK, N, CAP, A

TE Part #	DT04-12PC	DT04-12PA-LE01	DT04-12PB-B016	DT04-12PA-E005
Connector System	Wire-to-Wire	Wire-to-Wire	Wire-to-Wire	Wire-to-Wire
Number of Positions	12	12	12	12
Connector & Housing Type	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Male Terminals
Centerline (Pitch)	4.44 mm	4.44 mm	4.44 mm	4.44 mm
Sealable	Yes	Yes	Yes	Yes
Mating Pin Diameter	1.59 mm	1.59 mm	1.59 mm	1.59 mm
Number of Rows	2	2	2	2
Primary Product Color	Green	Gray	Black	Black
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	Power	Power	Power
Connector Mounting Type	Cable Mount (Free-Hanging)	Panel Mount	Cable Mount (Free-Hanging)	Cable Mount (Free-Hanging)
Nominal Voltage Architecture	250 V	250 V	250 V	250 V
Primary Locking Feature	Integrated in Housing	Integrated in Housing	Integrated in Housing	Integrated in Housing
Connector & Keying Code	C	A	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

**\*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 (5 of 5)



REC, 8P, GRY, E, XCAP, FLANGE, A

REC, 3P, GRY, N, FLANGE

REC, 12P, GRY, BUSBAR 2X6, NICKEL, A

REC, 8P, GRY, BUSBAR 2X4, NICKEL, A

TE Part #	DT04-08PA-CL07	DT04-3P-L012	DT04-12PA-P026	DT04-08PA-P026
Connector System	Wire-to-Wire	Wire-to-Wire	Bus Bar-to-Wire	Bus Bar-to-Wire
Number of Positions	8	3	12	8
Connector & Housing Type	Housing for Female Terminals	Housing for Male Terminals	Housing for Male Terminals	Housing for Female Terminals
Centerline (Pitch)	9.09 mm	8.7 mm	4.44 mm	9.09 mm
Sealable	Yes	Yes	Yes	Yes
Mating Pin Diameter	1.57 mm	1.59 mm	1.59 mm	1.57 mm
Number of Rows	2	2	2	2
Primary Product Color	Gray	Gray	Gray	Gray
Connector & Contact Terminates To	Wire & Cable	Wire & Cable	Bus Bar, Wire & Cable	Bus Bar, Wire & Cable
Contact Current Rating (Max)	13 A	13 A	13 A	13 A
Circuit Application	Power	Power	Power	Power
Connector Mounting Type	Panel Mount	Panel Mount	Bus Bar Mount	Bus Bar Mount
Nominal Voltage Architecture	250 V	250 V	250 V	250 V
Primary Locking Feature	Integrated in Housing	Integrated in Housing	Integrated in Housing	Integrated in Housing
Connector & Keying Code	A		A	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

**\*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.

