

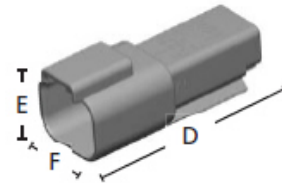
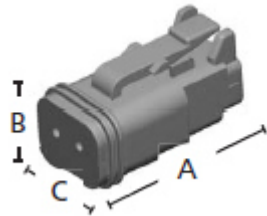
DT Connectors

DEUTSCH DT Series connectors offer field proven reliability and rugged quality. The DT design strengths include optional flange mounting, multi-pin arrangements, lower cost, and design flexibility. The DT series offers the designer the ability to use multiple size 16 contacts, each with 13 amp continuous capacity, within a single shell.



Features

- 14-20 AWG
- 2, 3, 4, 6, 8 and 12 cavity arrangements
- Accepts contact size 16 (13 amp)
- In-line, flange or PCB mount
- Rectangular, thermoplastic housing
- Wedgelocks assure contact alignment and retention
- Integrated latch for mating



Cavity	DT Plug						DT Receptable					
	Overall Length		Overall Height		Overall Width		Overall Length		Overall Height		Overall Width	
	A	B	C	D	E	F						
2	1.118	28.4	0.628	15.95	0.591	15.01	1.708	43.38	0.67	17.02	0.675	17.15
3	1.118	28.4	0.934	23.72	0.718	18.23	1.698	43.13	0.973	24.71	0.832	21.13
4	1.218	30.94	0.724	18.39	0.716	18.19	1.808	45.92	0.776	19.71	0.82	20.83
6	1.218	30.94	0.891	22.63	0.716	18.19	1.808	45.92	0.951	24.16	0.82	20.83
8	1.217	30.91	0.776	19.71	1.465	37.21	1.798	45.67	1	25.4	1.435	36.45
12	1.218	30.94	0.716	18.19	1.597	40.56	1.808	45.92	0.876	22.25	1.597	40.56

Performance Specifications

DEUTSCH electrical connectors will stand up to the harsh environmental challenges that are common to industrial markets that require advanced performance. Proper parts, procedures, and tooling must be used.

Temperature

Operating at temperatures from -55°C to +125° C continuous at rated current.

Durability

No electrical or mechanical defects after 100 cycles of engagement and disengagement.

Vibration

No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20 G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.

Physical Shock

No unlocking, unmating, or other unsatisfactory result during or after 50 G's in each of three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202, Method 213, Condition "C".

Fluid Resistance

Connectors show no damage when exposed to most fluids used in industrial applications.

Insulation Resistance

1000 mega ohms minimum at 25° C.

Moisture Resistance

Properly wired and mated connections will withstand immersion under three feet of water without loss of electronic qualities or leakage.

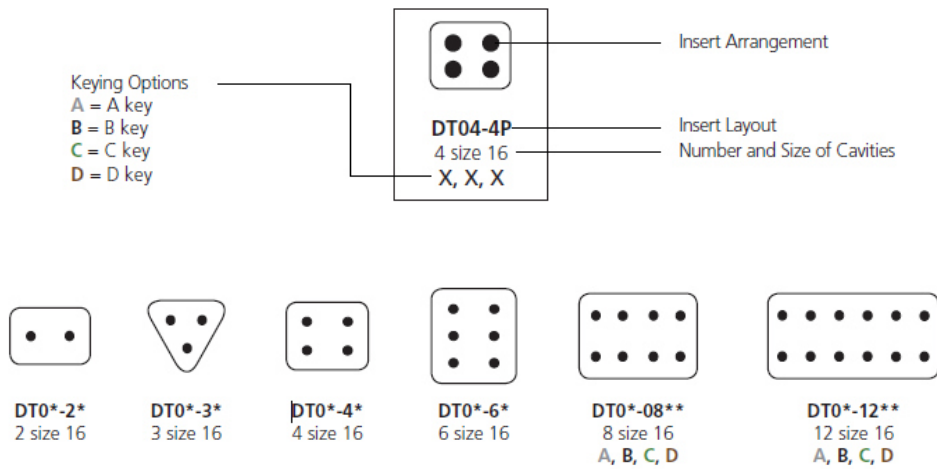
Dielectric Withstanding Voltage

Current leakage less than 2 milliamps at 1500 VAC.

Thermal Cycle

No cracking, chipping or leaking after 20 test cycles from -55° C to +125° C.

DT Configurator:



Wedgelocks:

Receptacle		
	W2P*	Wedgelock for 2 way receptacle *A, B, C, D keying available
	W3P*	Wedgelock for 3 way receptacle *J1939 keying available
	W4P*	Wedgelock for 4 way receptacle *A, B, C, D keying available
	W6P	Wedgelock for 6 way receptacle
	W8P	Wedgelock for 8 way receptacle
	W12P	Wedgelock for 12 way receptacle

Plug		
	W2S*	Wedgelock for 2 way plug *A, B, C, D keying available
	W3S*	Wedgelock for 3 way plug *J1939 keying available
	W4S*	Wedgelock for 4 way plug *A, B, C, D keying available
	W6S	Wedgelock for 6 way plug
	W8S	Wedgelock for 8 way plug
	W12S	Wedgelock for 12 way plug

Gaskets:

Gasket P/N	Connector P/N
DT3P-L012-GKT	DT04-3P-L012
DT4P-L012-GKT	DT04-4P-L012
DTP4P-L012-GKT	DTP04-4P-L012
DT8P-L012-GKT	DT04-08P*-L012
DT12-L012-GKT	DT04-12P*-L012
	DTM04-12P*-L012



Dust Caps:

Thermoplastic Dust Cap P/N	Connector P/N
1011-345-0305	DT06-3S
1011-346-0405	DT06-4S
1011-347-0605	DT06-6S
1011-348-0805	DT06-08S*
1011-349-1205	DT06-12S*



Plastisol Dust Cap P/N	Connector P/N
DT3P-DC	DT04-3P
DT4P-DC	DT04-4P
DT6P-DC	DT04-6P
DT12P-DC	DT04-12P*
DT12S-DC	DT06-12S*



Boots:

Receptacle Boot Description	Boot P/N
2 way receptacle boot, gray	DT2P-BT
2 way receptacle boot, black	DT2P-BT-BK
3 way receptacle boot, gray	DT3P-BT
3 way receptacle boot, black	DT3P-BT-BK
4 way receptacle boot, gray	DT4P-BT
6 way receptacle boot, gray	DT6P-BT
6 way receptacle boot, black	DT6P-BT-BK
8 way receptacle boot, gray	DT8P-BT
8 way receptacle boot, black	DT8P-BT-BK
12 way receptacle boot, gray	DT12P-BT
12 way receptacle boot, black	DT12P-BT-BK
12 way receptacle boot, gray, enhanced length	DT12P-BT-EN



Plug Boot Description	Boot P/N
2 way plug boot, gray	DT2S-BT
2 way plug boot, black	DT2S-BT-BK
3 way plug boot, gray	DT3S-BT
3 way plug boot, black	DT3S-BT-BK
4 way plug boot, gray	DT4S-BT
6 way plug boot, gray	DT6S-BT
6 way plug boot, black	DT6S-BT-BK
8 way plug boot, gray	DT8S-BT
8 way plug boot, black	DT8S-BT-BK
12 way plug boot, gray	DT12S-BT
12 way plug boot, black	DT12S-BT-BK
12 way plug boot, gray, enhanced length	DT12S-BT-EN
48 way plug boot, gray	DT48S-BT



Backshells:



Receptacle Backshells				
Connector	Style	Strain relief	Tubing Size (mm)	P/N
DT04-2P	180°		6, 7.5, 8.5, and 10	1011-229-0205
	180°	X	6, 7.5, 8.5, and 10	1011-257-0205
	90°		6, 7.5, 8.5, and 10	1011-230-0205
	90°	X	6, 7.5, 8.5, and 10	1011-258-0205
DT04-3P	180°		6, 7.5, 8.5, and 10	1011-233-0305
	180°	X	6, 7.5, 8.5, and 10	1011-261-0305
	90°		6, 7.5, 8.5, and 10	1011-234-0305
	90°	X	6, 7.5, 8.5, and 10	1011-262-0305
DT04-4P	180°		6, 7.5, 8.5, and 10	1011-237-0405
	180°	X	6, 7.5, 8.5, and 10	1011-265-0405
	90°		6, 7.5, 8.5, and 10	1011-238-0405
	90°	X	6, 7.5, 8.5, and 10	1011-266-0405
DT04-6P	180°		8.5, 10, and 13	1011-241-0605
	180°	X	8.5, 10, and 13	1011-269-0605
	90°		8.5, 10, and 13	1011-242-0605
	90°	X	8.5, 10, and 13	1011-270-0605
DT04-08P*	180°		8.5, 10, and 13	1011-245-0805
	90°		8.5, 10, and 13	1011-246-0805
DT04-12P*	180°		10, 13, and 17	1011-249-1205
	90°		10, 13, and 17	1011-250-1205

Plug Backshells				
Connector	Style	Strain relief	Tubing Size (mm)	P/N
DT06-2S	180°		6, 7.5, 8.5, and 10	1011-227-0205
	180°	X	6, 7.5, 8.5, and 10	1011-255-0205
	90°		6, 7.5, 8.5, and 10	1011-228-0205
	90°	X	6, 7.5, 8.5, and 10	1011-256-0205
DT06-3S	180°		6, 7.5, 8.5, and 10	1011-231-0305
	180°	X	6, 7.5, 8.5, and 10	1011-259-0305
	90°		6, 7.5, 8.5, and 10	1011-232-0305
	90°	X	6, 7.5, 8.5, and 10	1011-260-0305
DT06-4S	180°		6, 7.5, 8.5, and 10	1011-235-0405
	180°	X	6, 7.5, 8.5, and 10	1011-263-0405
	90°		6, 7.5, 8.5, and 10	1011-236-0405
	90°	X	6, 7.5, 8.5, and 10	1011-264-0405
DT06-6S	180°		8.5, 10, and 13	1011-239-0605
	180°	X	8.5, 10, and 13	1011-267-0605
	90°		8.5, 10, and 13	1011-240-0605
	90°	X	8.5, 10, and 13	1011-268-0605
DT06-08S*	180°		8.5, 10, and 13	1011-243-0805
	90°		8.5, 10, and 13	1011-244-0805
DT06-12S*	180°		10, 13, and 17	1011-247-1205
	90°		10, 13, and 17	1011-248-1205

Mounting Clips:

Mounting Clip	Part Number	Used On (Receptacles)	Mounting Direction	Color/Material	Hole O.D. inches (mm)
	1027-003-1200	DT 2, 3, 4, 6, 12 DTM, DTP (all)	Straight	Stainless steel	.433 (11.0)
	1027-005-1200	DT 2, 3, 4, 6, 12 DTM, DTP (all)	Straight	Stainless steel	.512 (13.0)
	1027-004-1200	DT 2, 3, 4, 6, 12 DTM, DTP (all)	Straight	Steel w/ zinc plating	.512 (13.0)
	1027-008-1200	DT 2, 3, 4, 6, 12 DTM, DTP (all)	Side	Steel w/ zinc plating	.433 (11.0)
	1027-013-1200	DT 2, 3, 4, 6, 12 DTM, DTP (all)	Side	Steel w/ zinc plating	.323 (8.2)
	1027-001-0800	DT 8 cavity only	Straight	Stainless steel	.433 (11.0)
	1027-006-0800	DT 8 cavity only	Straight	Stainless steel	.512 (13.0)
	1027-002-0800	DT 8 cavity only	Straight	Steel w/ zinc plating	.512 (13.0)
	1027-014-0800	DT 8 cavity only	Straight	Steel w/ zinc plating	.323 (8.2)
	1011-026-0205	DT 2, 3, 4, 6, 12 DTM, DTP (all)	Straight	Gray plastic	.200 (5.08)
	1011-030-0205	DT 2, 3, 4, 6, 12 DTM, DTP (all)	Straight	Black plastic	---
	1011-310-0205* *Connector removable with 50N of force	DT 2, 3, 4, 6, 12 DTM, DTP (all)	Straight	Black plastic	---
	1011-027-0805	DT 8 cavity only	Straight	Gray plastic	.200 (5.08)

Standard Contacts:








Size	Solid Contact Part Numbers		Wire Size AWG (mm ²)	Recommended Strip Length Inches (mm)	Min. Contact Retention	Ref Crimp Tensile Lbs. (N)	Max Rated Amps at 125° Continuous
	Pin	Socket					
20	0460-202-20**	0462-201-20**	20 (0.50)	.156-.218 (3.96-5.54)	20 (89)	20 (89)	7.5
20	0460-010-20**	0462-005-20**	16-18 (1.0-0.75)	.156-.218 (3.96-5.54)	20 (89)	20 (89)	7.5
16	0460-202-16**	0462-201-16**	16-20 (1.5-0.50)	.250-.312 (6.35-7.92)	25 (111)	35-20 (156-89)	13
16	0460-215-16**	0462-209-16**	14 (2.0)	.250-.312 (6.35-7.92)	25 (111)	70 (311)	13
12	0460-204-12**	0462-203-12**	12-14 (3.0-2.0)	.222-.284 (5.64-7.21)	30 (134)	75-70 (334-311)	25
8	0460-204-08**	0462-203-08**	8-10 (8.0-5.0)	.430-.492 (10.92-12.50)	35 (156)	125-90 (556-400)	60
4	0460-204-04**	0462-203-04**	6 (13.0)	.430-.492 (10.92-12.50)	35 (156)	300 (1334)	100

** = Plating Codes. Consult factory for custom finish needs.

Material code:

Part Number Suffix (**)	Material
31	Gold
90	Nickel (Size 4 pin only)
141	Nickel

Sealing Plugs:

Sealing Plug	Part Number	Contact Size	Wire Gauge Range	Description
	114019	Size 4	4-6 AWG	silicone rubber, used with Common Contact System
	114018	Size 8	8-10 AWG	thermoplastic, used with Common Contact System
	114017	Size 12, 16	12-20 AWG	thermoplastic, used with Common Contact System
	0413-217-1605 (locking sealing plug)	Size 16	14-20 AWG	thermoplastic, used with Common Contact System, retained by locking fingers
	0413-003-1605	Size 16	14-20 AWG	thermoplastic, used with STRIKE Series
	0413-204-2005	Size 20	20 AWG	thermoplastic, used with Common Contact System
	600300-22	Size 22	22-26 AWG	thermoplastic, used with Quick Connect Series

Please contact us for further information, prices or lead time.