

## Deutsch Connectors Specifications

### DRB Series

- Accepts contact sizes 4 (100 amps), 8 (60 amps), 12 (25 amps), 16 (13 amps), and 20 (7.5 amps)
- 6-22 AWG
- 48, 60, and 102 cavity arrangements
- Flange mount
- Rectangular, thermoplastic housing
- Jackscrew for mating
- Wedgelocks assure contact alignment and retention



### DRC Series

- Accepts contact sizes 16 (13 amps) and 20 (7.5 amps)
- 14-22 AWG
- 24, 38, 40, 50, 60, 64, 70, and 80 cavity arrangements
- Inline, flange, and PCB mount
- Rectangular, thermoplastic housing
- Jackscrew for mating



### DT Series

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



### DTHD Series

- Accepts contact sizes 4 (100 amps), 8 (60 amps), and 12 (25 amps)
- 6-14 AWG
- 1 cavity arrangement
- Inline and flange mount
- Circular, thermoplastic housing
- Integrated latch for mating



### DTM Series

- Accepts contact size 20 (7.5 amps)
- 16-22 AWG
- 2, 3, 4, 6, 8, and 12 cavity arrangements
- Inline, flange, and PCB mount
- Rectangular, thermoplastic housing
- Integrated latches for mating
- Wedgelocks assure contact alignment and retention



## Deutsch Connectors Specifications

### DTP Series

- Accepts contact size 12 (25 amps)
- 10-14 AWG
- 2 and 4 cavity arrangements
- Inline, flange, and PCB mount
- Rectangular, thermoplastic housing
- Integrated latches for mating
- Wedgelocks assure contact alignment and retention



### DTV Series

- Accepts contact size 16 (13 amps)
- 14-20 AWG
- 18 cavity arrangement
- Flange mount
- Rectangular, thermoplastic housing
- Integrated latches for mating
- Wedgelocks assure contact alignment and retention



### HD10 Series

- Accepts contact sizes 4 (100 amps), 12 (25 amps), and 16 (13 amps)
- 6-20 AWG
- 3, 4, 5, 6, and 9 cavity arrangements
- Inline, flange, and PCB mount
- Circular, thermoplastic housing
- Coupling ring for mating



### HD30 Series

- Accepts contact sizes 4 (100 amps), 8 (60 amps), 12 (25 amps), 16 (13 amps), and 20 (7.5 amps)
- 6-22 AWG
- 2, 6, 8, 9, 14, 16, 18, 19, 20, 21, 23, 29, 31, 33, 35 and 47 cavity arrangements
- Inline or flange mount
- Circular, aluminium housing
- Coupling ring for mating



### HDP20 Series

- Accepts contact sizes 4 (100 amps), 8 (60 amps), 12 (25 amps), 16 (13 amps), and 20 (7.5 amps)
- 6-22 AWG
- 2, 6, 8, 9, 14, 16, 18, 19, 20, 21, 23, 29, 31, 33, 35 and 47 cavity arrangements
- Inline or flange mount
- Circular, thermoplastic housing
- Coupling ring for mating



## Deutsch Performance Specifications

<b>ARC Resistance</b>	All dielectric materials withstand a minimum of 130 seconds per ASTM D-495.
<b>Corrosion Resistance</b>	Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL-STD 1344 method 1001.
<b>Dielectric Withstanding Voltage</b>	Current leakage less than 2 milliamps at 1500 VAC.
<b>Durability</b>	No electrical or mechanical defects after 100 cycles of engagement or disengagement.
<b>Fluid Resistance</b>	Connectors show no damage when exposed to most fluids used in industrial applications.
<b>Insulation Resistance</b>	1000 megohms min. at 25° C.
<b>Physical Shock</b>	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."
<b>Silicone Insert</b>	Front and rear silicone inserts are devoid of all organic matter.
<b>Submersion</b>	Properly wired and mated connection will withstand immersion under three feet of water without loss of electrical qualities or leakage.
<b>Temperature</b>	Operative at temperatures from -55° C to +125° C at rated current.
<b>Thermal Cycle</b>	No cracking, chipping, or leaking after twenty cycles from -55° C to +125° C.
<b>Vibration</b>	Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 g's at 10-2000 Hz.
<b>Common Contact System</b>	All wires are terminated by a single contact system. The only variation in contacts is dictated by wire gauge. One contact, whether it is a solid or stamped & formed can be assembled with the complete Deutsch connector family. The Common Contact System applies to a common system of contacts, tooling processes, and terminations.

Contacts withstand a minimum load of:			
<b>Contact Retention</b>	<b>Contact Size</b>	<b>Load</b>	
	4	35 lbs.	
	8	35 lbs.	
	12	30 lbs.	
	16	25 lbs.	
	20	20 lbs.	
<b>Contact Current Rating @ 125° C (continuous)</b>	<b>Contact Size</b>	<b>Max Current</b>	
	#4	100 amps	
	#8	60 amps	
	#12	25 amps	
	#16	13 amps	
	#20	7.5 amps	
<b>Contact Millivolt Drop (Solid Contacts)</b>	<b>Wire AWG</b>	<b>Test Current</b>	<b>Millivolt Drop*</b>
	4	100 amps	60
	8	60 amps	60
	12	25 amps	60
	16	13 amps	60
	20	7.5 amps	60
<b>Contact Millivolt Drop (Stamped &amp; Formed Contacts)</b>	<b>Wire AWG</b>	<b>Test Current</b>	<b>Millivolt Drop*</b>
	12	25 amps	10
	16	13 amps	100
	20	7.5 amps	100

\*Less drop through wire