

Deutsch Performance Specifications

ARC Resistance	All dielectric materials withstand a minimum of 130 seconds per ASTM D-495.
Corrosion Resistance	Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL-STD 1344 method 1001.
Dielectric Withstanding Voltage	Current leakage less than 2 milliamps at 1500 VAC.
Durability	No electrical or mechanical defects after 100 cycles of engagement or disengagement.
Fluid Resistance	Connectors show no damage when exposed to most fluids used in industrial applications.
Insulation Resistance	1000 megohms min. at 25° C.
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."
Silicone Insert	Front and rear silicone inserts are devoid of all organic matter.
Submersion	Properly wired and mated connection will withstand immersion under three feet of water without loss of electrical qualities or leakage.
Temperature	Operative at temperatures from -55° C to +125° C at rated current.
Thermal Cycle	No cracking, chipping, or leaking after twenty cycles from -55° C to +125° C.
Vibration	Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 g's at 10-2000 Hz.
Common Contact System	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:			
Contact Retention	Contact Size	Load	
	4	35 lbs.	
	8	35 lbs.	
	12	30 lbs.	
	16	25 lbs.	
	20	20 lbs.	
Contact Current Rating @ 125° C (continuous)	Contact Size	Max Current	
	#4	100 amps	
	#8	60 amps	
	#12	25 amps	
	#16	13 amps	
	#20	7.5 amps	
Contact Millivolt Drop (Solid Contacts)	Wire AWG	Test Current	Millivolt Drop*
	4	100 amps	60
	8	60 amps	60
	12	25 amps	60
	16	13 amps	60
	20	7.5 amps	60
Contact Millivolt Drop (Stamped & Formed Contacts)	Wire AWG	Test Current	Millivolt Drop*
	12	25 amps	10
	16	13 amps	100
	20	7.5 amps	100

*Less drop through wire