

SERIES 28 HiPer-D® Combo Connectors



Reference and Technical Data Combo HiPer-D® product specifications

Description	Requirement	Procedure
Voltage Rating (DWV)	1000 VAC Sea Level	EIA-364-20
Operating Temperature	-65° C. to +200° C.	
Insulation Resistance	5000 megohms minimum	EIA-364-21
Current Rating	Size #20 contacts 7.5 Amps max. Size #8 contacts 40 Amps max.	
Contact Resistance	Wire Size Test Current Millivolt Drop	EIA-364-06
	8 46 26	
	10 33 33	
	12 23 42	
	14 17 40	
	16 13 49	
	20 7.5 55	
	22 5 73	
	24 3 45	
Low Level Contact Resistance	Wire Size Max Milliohms	EIA-364-23
	20 9	
	22 15	
	24 20	
Shell-to-Shell Resistance (connectors with ground springs)	2.5 milli-volt drop maximum	EIA-364-83
Shielding Effectiveness	Freq. GHz Min Attenuation (dB)	EIA-364-66 Electroless nickel plated shells with ground spring installed
	0.1 100	
	0.4 90	
	0.8 85	
	1.0 80	
	3.0 55	
	6.0 40	
	10.0 30	
Water Immersion, mated	1 hour immersion at a depth of 1 meter	MIL-STD-810F Method 512.4
Ingress Protection Rating	IP67, mated connectors	IEC-60529
Vibration, Sine	20 g's	EIA-364-28
Vibration, Random	43 g's	EIA-364-28
Mechanical Shock	300 g's	EIA-364-27
Thermal Shock	-65° C. to +200° C.	EIA-364-32
Humidity	10 cycles, 10 days, 25°C to 65°C	EIA-364-31
Salt Spray	Shell Finish Code Hours	EIA-364-26
	Yel Chromate/ Cadmium JF 500	
	Electroless Nickel ME 96	
	Nickel-PTFE MT 500	
	Gold Z2 48	
	Passivated Stainless Steel Z1 500	
Altitude Immersion	75,000 feet	EIA-364-03
Fluid Immersion	No damage from solvents, oils, and fuels	EIA-364-10
Magnetic Permeability	2 μ maximum	EIA-364-54
Mating Force	[(# of size 8 contacts) X 5.0] + [(# of size 20 contacts) X .75] + 3 = (Maximum Mating Force in pounds)	EIA-364-13
Mechanical Durability	500 Mating Cycles	EIA-364-09