

# 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	<b>Wire Size</b> <b>Test Current</b> <b>Millivolt</b>	EIA-364-06		
	<b>Drop</b>			
	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	<b>Wire Size</b> <b>Max Milliohms</b>	EIA-364-23		
	20                                    9			
	22                                    15			
	24                                    20			
<b>Shell-to-Shell Resistance</b> (connectors with ground springs)	2.5 milli-volt drop maximum	EIA-364-83		
Shielding Effectiveness	<b>Freq. GHz</b> <b>Min Attenuation (dB)</b>	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	<b>Shell Finish</b> <b>Code</b> <b>Hours</b>	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		