

SERIES 28
HiPer-D Space Grade Connectors
 Reference and Technical Data



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 7.5A, #22 5A			
Contact Resistance	Wire Size	Test Current	Millivolt Drop	EIA-364-06
	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	2.5 milliohm max (ground spring required)			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
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
Mechanical Durability	500 Mating Cycles			EIA-364-09

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Description	Material	Finish
Contacts	Copper Alloy	Gold (50 microin.) over nickel
Socket Contact Hood (Size 20, 22)	Stainless steel	Passivated
Shell	Aluminum Alloy or stainless steel	See ordering information
Insulators	Thermoset epoxy resin per ASTM D-5948	None
Interfacial Seal	Fluorosilicone	None
Grommet	Fluorosilicone	None
EMI Spring	Copper alloy	Electroless nickel
Contact retention clips	Copper alloy	None
Insert retention clip	Copper alloy	None
Sealant	RTV silicone	None
Hardware	Stainless steel (300 series)	Passivated
O-ring	Fluorosilicone	None