

MATERIALS SPECIFICATIONS

Item	Material	Surface Finish	Flammability
Housing / nut	Aluminum AlMgSiSn1Bi	Anthracite tin-nickel over nickel	
EMI-locking ring	CuBe2	Gold over nickel	
Crimp sleeve	CuTeP	Nickel	
Grounding ring	CuZn39Pb3	Tin over nickel	
Insulator	PEEK		UL94 (V0)
Pin contact ODU specific	CuZn38Pb2	1.27 µm gold over nickel	
Pin contact MIL standard	CuZn35Pb2	1.27 µm gold over nickel	
Socket contact body	CuZn35Pb2	Gold over nickel	
Socket contact clip	CuBe2	1.27 µm gold over nickel	
Wave spring	Stainless steel		
Ratchet ring	PEEK		UL94 (V0)
Grommet	FVMQ (fluorosilicone)		
Potting	Potting compound		UL94 (V0)
O-rings	FVMQ (fluorosilicone)		

PERFORMANCE SPECIFICATIONS

Description	Requirement	
Current carrying capacity	Contact Size	Current
	#16	13 A
	#20MD	7.5 A
	#22D	5 A
Insulation resistance at ambient temperature	The insulation resistance between any pair of contacts and between any contact and the shell shall be greater than 5.000 MΩ	
Insulation resistance at elevated temperature	The insulation resistance between any pair of contacts and between any contact and the shell shall be greater than 1.000 MΩ at +175°C	

Type	Performance
Saltspray	96h salt mist
Operating temperature	-65°C up to +175°C
Mating cycles	500
Shell-to-shell conductivity	Voltage drop 2, 5 mV
Random vibration ¹	37.8g
Sine vibration ¹	30g
Mechanical shock ¹	300g

1: Threaded version