

MCX and Reverse Polarity MCX Specifications

Materials		
Connector Part	Material	Finish
Bodies	Brass	Nickel or Gold
Center contact	Male: Brass	Gold
	Female: Beryllium Copper	
Insulator	PTFE	N/A
Crimp ferrule	Annealed Copper	Nickel or Gold

Electrical			
Electrical Data	Detail		
Impedance	50 ohm		
Frequency range	0~6GHz		
Working voltage	RG178, 196/U » 250 volts rms max.		
	RG316/U, semi-rigid » 335 volts rms max.		
Insulation resistance	1,000 megohms min.		
Dielectric withstanding voltage	RG178/U » 750 volts rms max.		
	RG316/U, semi-rigid » 1,000 volts rms max.		
Contact resistance	Center contact: 5.0 milliohms max.		
	Outer contact: 1.0 milliohms max.		
VSWR: f(GHz)		Straight	Right angle
	RG178/U	1.17+0.04f	1.07+0.06f
	RG316/U, semi rigid	1.13+0.04f	1.07+0.04f
Insertion loss	0.1dB max. (straight)		
	0.2dB max. (right angle)		

Mechanical	
Mechanical Data	Detail
Engagement force	5.6lbs max.
Disengagement force	3lbs
Connector durability	500 matings
Cable retention force	RG178/U » 10lbs min.
	RG316/U » 20lbs min.
	semi-rigid » 30lbs min.

Environmental

Environmental Data	Detail
Corrosion (salt spray)	MIL-STD-202 METHOD 101 TEST CONDITION B
Thermal shock	MIL-STD-202 METHOD 107 TEST CONDITION F
Vibration	MIL-STD-202 METHOD 204 TEST CONDITION B
Mechanical shock	MIL-STD-202 METHOD 213 TEST CONDITION B
Temperature Range	-65°C to 165°C

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