



SMB Specifications

Materials

Connector part	Material	Finish
Bodies	Brass	Nickel or Gold
Center Contact	Male: Brass	Gold
	Female: Beryllium copper	
Insulator	Teflon	N/A
Crimp ferrule	Annealed Copper	Nickel or Gold

Electrical

Electrical Data	Detail
Impedance	50 ohm
Frequency range	0~4GHz
Working voltage	RG178/U → 250 volts rms max. at sea level
	RG316/U, 405 → 335 volts rms max. at sea level
Insulation resistance	1,000 megohms min.
Dielectric withstanding voltage	RG178/U → 750 volts rms min. at sea level
	RG316/U, 405 → 1,000 volts rms min. at sea level
Contact resistance	Center contact: 6.0 milliohms max.
	Outer contact: 2.5 milliohms max.
VSWR: f (GHz)	Straight Right angle
	RG178/U 1.30+0.04f 1.45+0.06f
	RG316/U, 405 1.25+0.04f 1.35+0.04f
Insertion loss	0.3dB max. (straight)
	0.6dB max. (right angle)

Mechanical

Mechanical Data	Detail
Engagement force	14lbs max.
Disengagement force	14lbs max.
Connector durability	500 cycles min.
Cable retention force	RG178/U → 10lbs min.
	RG316/U → 20lbs min.
	RG405 → 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 B
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