SMA Series

Electrical:	
Impedance	50 ohm
Frequency Range	For RG-402 & RG-405 semi-rigid cable- 0 to 18 GHz For flexible-max operation frequency of cable per MIL-C-17
VSWR	RG-402 (0.141"O.D.): 1.05 + .005 x f GHz max (straight) 1.15 + .015 x f GHz max (right angle) RG-405 (0.085"O.D.): 1.05 + .005 x f GHz max (straight) 1.18 + .015 x f GHz max (straight) RG-58, 141, 142, 223: 1.10 + 0.01 x f GHz max (straight) 1.15 + 0.02 x f GHz max (right angle) RG-174, 188, 316: 1.15 + 0.01 x f GHz max (straight) 1.18 + 0.02 x f GHz max (right angle) RG-178, 196: 1.20 + 0.020 x f GHz max (straight) 1.25 + 0.025 x f GHz max (right angle)
Voltage Rating	RG- 402(0.141"O.D.): 550 volts rms max RG- 405(0.085"O.D.): 335 volts rms max RG-58, 141, 142, 223: 550 volts rms max RG-174, 188, 316:335 volts rms max RG-178, 196: 250 volts rms max
Dielectric withstanding Voltage	RG-402(0.141"O.D.): 1000 volts rms max RG-405(0.085"O.D.): 750 volts rms max RG-58, 141, 142, 223: 1000 volts rms max RG-174, 188, 316: 750 volts rms max RG-178, 196: 500 volts rms max
Contact Resistance	Center Contact: 5.0 milliohms max. Outer Contact: 1.0 milliohms max.
RF Leakage	- (90-f GHz) dB min
Insertion Loss	0.04dB maximum x $\sqrt{}$ f GHz (straight) 0.06dB maximum x $\sqrt{}$ f GHz (right angle)
Insulator Resistance	5,000 Megohms min

Mechanical & Environmental	
Mating	1/4" -36 threaded coupling
Durability	500 matings
Coupling Nut Retention	60 lbs min.
Recommended Nut Mating Torque	8 inch-pounds
Cable Retention	RG-58, 141, 142, 223: 40 lbs min RG-174, 188, 316: 20 lbs min
Temperature Range	- 65ºC to 165ºC
Vibration	MIL-STD-202 Method 204 test Cond.D.
Salt Spray	MIL-STD-202 Method 101 test Cond.B.
Temperature Cycling	MIL-STD-202 Method 102 test Cond.C.

Material:		
	Material	Plating
Connector Body	Brass	Gold over Nickel
	Stainless Steel	Passivated or Gold
Center Contact	Male: Brass	Gold over Nickel
	Female: Beryllium-Copper	Gold over Nickel
Insulation	Teflon	None
Gasket	Silicone	None
Crimp Ferrule	Annealed Copper	Same as Body