



# SMA

## specification sheet

Electrical characteristics		
Impedance		50 $\Omega$
Maximum frequency	Used w/ flexible cable	12.4 GHz
	Used w/ semi-rigid cable	18 GHz
Working voltage	RG178	170 V <sub>RMS</sub> max.
	RG316, 0.085"	250 V <sub>RMS</sub> max.
	RG142, 0.141"	335 V <sub>RMS</sub> max.
Dielectric withstanding voltage	RG178	500 V <sub>RMS</sub> min.
	RG316, 0.085"	750 V <sub>RMS</sub> min.
	RG142, 0.141"	1000 V <sub>RMS</sub> min.
VSWR	Straight	1.3 max.
	Right angle	1.5 max.
Contact resistance	Centre contact	6 m $\Omega$ max.
	Outer contact	2 m $\Omega$ max.
Insulator resistance		5000 M $\Omega$ min.

Materials			
Part name		Material	Finish
Body, metal parts		Brass per QQ-B-626	Gold 3 $\mu$ "
Centre contact	Male	Brass per QQ-B-626	Gold 30 $\mu$ "
	Female	Beryllium copper per QQ-C-530	Gold 30 $\mu$ "
Insulator		Teflon	None
Crimp ferrule		Annealed brass	Gold 3 $\mu$ "
Clamp gasket		Silicone rubber	None

**Note:** Other materials or finishes may be available on request

Mechanical & environmental characteristics	
Engagement force	2 in-lbs max.
Disengagement force	2 in-lbs max.
Coupling nut retention	60 lbs min.
Coupling proof torque	15 in-lbs. min.
Contact retention	6 lbs min.
Durability (mating cycles)	500 cycles min.*
Temperature range	-65 °C to 165 °C
Vibration	MIL-STD-202 method 204 test cond. B
Salt spray	MIL-STD-202 method 101 test cond. B
Thermal shock	MIL-STD-202 method 107 test cond. B

\* For beryllium copper female contact only