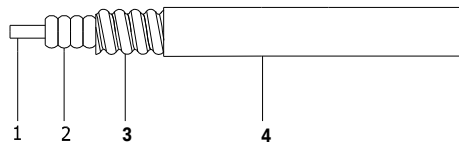


SHC-250



Construction Specification

	Material	Diameter	
		mm	inch
1. Inner Conductor	Copper Clad Aluminum Wire	1.9	0.075
2. Dielectric	Foam PE	4.85	0.191
3. Outer Conductor	Corrugated Copper Tube	6.4	0.252
4. Jacket	PE	7.5	0.295

Electrical Characteristics

Impedance	50 ohm
Velocity of Propagation	81%
Capacitance)	83pF/m 25pF/Ft
Inductance	0.20 μ H/m 0.061 μ H/ft
Peak Power Rating	6.4KW
DC Test Voltage	1600 V
Insulation Resistance	$> 1 \times 10^4$ M Ω .km
Cutoff frequency	20.4GHz
Inner Conductor DC Resistance	10.2 Ω /km
Outer Conductor DC Resistance	7.25 Ω /km
Jacket Spark	5.0 Kv
Shielding Effectiveness	120dB

Mechanical Characteristics

Min.Bending Radius Static (mm)	13 0.511
Min.Bending Radius Repeated(mm)	25 0.984
Tensile Strength(kg)	60
Weight(g/m)	65

Environmental Characteristics

Operating Temperature Range($^{\circ}$ C)	-55~+85
Installation Temp.($^{\circ}$ C)	-40~+60
Storage Temperature Range($^{\circ}$ C)	-70~+85

Attenuation & Average Power @ 20 $^{\circ}$ C and Seal Leavel

Frequency(MHz)	Attenuation		Power(KW CW)
	dB/100m	dB/100Ft	
100	5.95	1.81	1.15
200	8.36	2.55	0.83
450	13.15	4.01	0.55
800	17.52	5.34	0.4
900	18.56	5.66	0.37
1000	19.60	5.98	0.35
1800	26.93	8.210	0.24
2000	28.57	8.71	0.23
2200	30.24	9.22	0.22
2500	32.25	9.83	0.21
3000	35.78	10.91	0.19
4000	42.21	12.87	0.16
5000	48.07	14.66	0.14
5500	50.63	15.44	0.13
6000	53.42	16.29	0.12