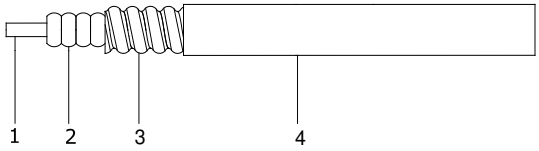
SHC-500



Construction Specification

	Material	Diameter	
		mm	inch
1. Inner Conductor	Copper Clad Aluminum Wire or Copper	3.60	0.1417
2. Dielectric	Foam PE	8.80	0.3465
3. Outer Conductor	Corrugated Copper Tube	12.10	0.4764
4. Jacket	PE or Low Smoke Halogen-free Fire-retardant PE	13.40	0.5276

Electrical Characteristics

Impedance	50 ohm	
Velocity of Propagation	83%	
Capacitance)	80pF/m	24.21pF/Ft
Peak Power Rating	19KW	
RF Peek Voltage	1.13	
Insulation Resistance	>5000MΩ.km	
Cutoff frequency	12.5 GHz	
Insulation Voltage	2.5KV	
Inner Conductor DC Resistance	2.85Ω/km	
Outer Conductor DC Resistance	3.50Ω/km	
Jacket Spark	5.0KV	
Shieding Effectiveness	>120dB	

Mechanical Characteristics

Min.Bending Radius Static (mm)	50	1.9685
Min.Bending Radius Repeated(mm)	125	4.9213
Tensile Strength(Kg)	110	

Environmental Characteristics

Operating Temperature Range(℃)	-55~+85
Installation Temp.(℃)	-20~+60
Storage Temperature Range(℃)	-55~+85

Attenuation & Average Power @ 20℃ and Seal Leavel

Frequency(MHz)	Attenuation		Power(KW CW)
	dB/100m	dB/100Ft	
100	3.22	0.98	3.03
200	4.65	1.42	2.11
450	7.20	2.20	1.37
800	9.86	3.01	1.00
900	10.56	3.22	0.94
1000	11.15	3.40	0.88
1500	13.8	4.21	0.70
1800	15.55	4.74	0.63
2000	16.40	5.00	0.59
2200	17.35	5.29	0.56
2400	18.10	5.52	0.53
2500	18.50	5.64	0.52
3000	20.90	6.37	0.48