RF Feeder Cable 3/8”

3/8" Low loss physical foamed insulation coaxial cable 50 Ohms correugated copper tube series coaxial cable		
RF 50 3/8"		
Description		
3/8" Standard Cable - PE	LTCB-02	
3/8" Retardant Cable	LTCB-02-RTD	
Construction		
Inner conductor	Material	Copper-clad aluminum wire or copper
	Diameter, mm(in)	3.3(0.13)
Dielectric	Material	Physical foam polyethylene
	Diameter, mm(in)	8.3(0.327)
Outer conductor	Material	Corrugated copper tube
	Diameter, mm(in)	9.6(0.378)
Jacket	Material	Black PE or low smoke halogen-free fire retardant
	Diameter, mm(in)	11.2(0.441)
Weight, kg/m(lb/ft)	LTCB-02	0.14(0.10)
	LTCB-02-RTD	0.16(0.11)
Mechanical properties		
Bending radius, mm(in)	Single bend	40(1.6)
	Repeated bend	95(4)
Number of bend	15	
Mobile Apply, mm(in)	250(10)	
Bending Moment, N · m(lb-ft)	1.9(1.4)	
Tensile Strength, kg(lb)	53(119)	
Storage Temperature, ºC(ºF)	-55 to +85(-67 to +185)	
Installation Temperature, ºC(ºF)	-40 to +60(-40 to +140)	
Operating Temperature, ºC(ºF)	-55 to +85(-67 to +185)	
Electrical Properties		
Capacitance, pF/m(ft)	76(23.2)	
Impedance, ohms	50 ±1	
Velocity, percent	88	
Peak power rating, kW	15.6	
RF peak voltage, KV	1.05	
Insulating resistance, MΩ·km	>5000	
Cut-off frequency, (GHz)	13.5	
Insulation voltage, KV	2.5	
Inner Conductor DC Resistance, Ω/km	3.1	
Outer Conductor DC Resistance, Ω/km	2.8	
Jacket Spark, KV	5	
Shielding effectiveness, dB	>120	
VSWR (Return loss)		
0.005~3GHz	≤1.15(>=23dB)	
0.8~1.0GHz	≤1.10(>=26dB)	
1.7~2.0GHz	≤1.10(>=26dB)	
2.0~2.4GHz	≤1.10(>=26dB)	

Frequency MHz	Max. Attenuation dB/100 ft	Max. Attenuation dB/100 m	Pawer Rate kW	Frequency MHz	Max. Attenuation dB/100 ft	Max. Attenuation dB/100 m	Pawer Rate kW
100	0.951	3.120	2.230	2000	4.600	15.100	0.460
200	1.356	4.450	1.560	2200	4.850	15.900	0.430
450	2.070	6.790	1.020	2400	5.090	16.700	0.420
800	2.800	9.200	0.750	2500	5.210	17.080	0.410
900	2.990	9.800	0.710	3000	5.760	18.900	0.370
1000	3.160	10.370	0.670	Standard Testing Condition			
1500	3.930	12.900	0.530	Attenuation : VSWR 1.0, Ambient Temperature 20ºC			
1800	4.340	14.250	0.480	Average Power Rate : VSWR 1.0, Ambient Temperature 40ºC			
				Inner Conductor Temperature 100ºC, no solar rediation			