

RF FEEDER CABLE 5/8"

5/8" Low loss physical foamed insulation coaxial cable 50 Ohms corrugated copper tube series coaxial cable			
RF 50 5/8"			
Description			
5/8" Standard Cable - PE	LTCB-04		
5/8" Retardant Cable	LTCB-04-RTD		
Construction			
Inner conductor	Material	Smooth copper tube	
	Diameter, mm(in)	7.0(0.28)	
Dielectric	Material	Physical foam polyethylene	
	Diameter, mm(in)	18.0(0.71)	
Outer conductor	Material	Corrugated copper tube	
	Diameter, mm(in)	19.7(0.78)	
Jacket	Material	Black PE or low smoke halogen-free fire retardant	
	Diameter, mm(in)	21.9(0.86)	
Weight, kg/m(lb/ft)	LTCB-04	0.39(0.26)	
	LTCB-04-RTD	0.42(0.28)	
Mechanical properties			
Bending radius, mm(in)	Single bend	75(3)	
	Repeated bend	200(8)	
Number of bend		15	
Mobile Apply, mm(in)		450(18)	
Bending Moment, N · m(lb-ft)		10.0(7.4)	
Tensile Strength, kg(lb)		115(259)	
Storage Temperature, °C(°F)		-55 to +85(-67 to +185)	
Installation Temperature, °C(°F)		-40 to +60(-40 to +140)	
Operating Temperature, °C(°F)		-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		62	
RF peak voltage, KV		2.5	
Insulating resistance, MΩ ·km		>5000	
Cut-off frequency, (GHz)		6.5	
Insulation voltage, KV		8	
Inner Conductor DC Resistance, Ω/km		1.32	
Outer Conductor DC Resistance, Ω/km		1.43	
Jacket Spark, KV		8	
Shielding effectiveness, dB	>120	Power Rate	Frequency
VSWR (Return loss)			
0.005~3GHz		≤1.15(e23dB)	
0.8~1.0GHz		≤1.10(e26dB)	
1.7~2.0GHz		≤1.10(e26dB)	
2.0~2.4GHz		≤1.10(e26dB)	



Frequency MHz	Max. Attenuation dB/100 ft	Max. Attenuation dB/100 m	Power Rate kW	Frequency MHz	Max. Attenuation dB/100 ft	Max. Attenuation dB/100 m	Power Rate kW
100	0.450	1.490	5.710	2000	2.270	7.460	1.130
200	0.650	2.140	3.970	2200	2.400	7.870	1.100
450	1.000	3.280	2.580	2400	2.520	8.270	1.030
800	1.370	4.480	1.890	2500	2.620	8.600	0.990
900	1.450	4.770	1.770	3000	2.870	9.410	0.890
1000	1.540	5.060	1.670	Standard Testing Condition			
1500	1.960	6.420	1.330	Attenuation : VSWR 1.0, Ambient Temperature 20°C			
1800	2.140	7.020	1.200	Average Power Rate : VSWR 1.0, Ambient Temperature 40°C			
				Inner Conductor Temperature 100°C, no solar radiation			