

RF FEEDER CABLE 1/4"

1/4" Low loss physical foamed insulation coaxial cable 50 Ohms corrugated copper tube series coaxial cable		
RF 50 1/4"		
Description		
1/4" Standard Cable - PE	LTCB-01	
1/4" Retardant Cable	LTCB-01-RTD	
Construction		
Inner conductor	Material	Copper-clad aluminum wire or copper
	Diameter, mm(in)	2.4(0.09)
Dielectric	Material	Physical foam polyethylene
	Diameter, mm(in)	6.5(0.256)
Outer conductor	Material	Corrugated copper tube
	Diameter, mm(in)	7.5(0.295)
Jacket	Material	Black PE or low smoke halogen-free fire retardant
	Diameter, mm(in)	9.1(0.358)
Weight, kg/m(lb/ft)	LTCB-01	0.10(0.07)
	LTCB-01-RTD	0.12(0.08)
Mechanical properties		
Bending radius, mm(in)	Single bend	38(1.5)
	Repeated bend	76(3)
Number of bend	15	
Mobile Apply, mm(in)	200(8)	
Bending Moment, N · m(lb-ft)	1.3(0.98)	
Tensile Strength, kg(lb)	53(119)	
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	11	
RF peak voltage, KV	0.83	
Insulating resistance, MΩ · km	>5000	
Cut-off frequency, (GHz)	18.6	
Insulation voltage, KV	2.2	
Inner Conductor DC Resistance, Ω/km	5.5	
Outer Conductor DC Resistance, Ω/km	3.7	
Jacket Spark, KV	3	
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	Power Rate kW	Frequency MHz	Max. Attenuation dB/100 ft	Max. Attenuation dB/100 m	Power Rate kW
100	1.295	4.250	1.870	2000	6.340	20.800	0.370
200	1.859	6.100	1.300	2200	6.680	21.900	0.350
450	2.860	9.370	0.850	2400	7.010	23.000	0.340
800	3.880	12.720	0.620	2500	7.190	23.600	0.340
900	4.130	13.550	0.580	3000	7.960	26.100	0.300
1000	4.370	14.350	0.550	Standard Testing Condition			
1500	5.430	17.800	0.440	Attenuation : VSWR 1.0, Ambient Temperature 20°C			