

# 1/2" 超柔 RF 电缆



## 结构参数 Construction Specification

	材料 Material	直径 Diameter(mm)
1.内导体 Inner Conductor	铜包铝线或铜线 Copper Clad Aluminum Wire or Copper	3.55
2.绝缘体 Dielectric	发泡聚乙烯 Foam PE	8.70
3.外导体 Outer Conductor	螺旋铜管 Helical Copper Tube	12.00
4.护套 Jacket	聚乙烯或低烟无卤防火聚乙烯 PE or Low Smoke Halogen-free Fire-retardant PE	13.40

## 电性能参数&机械性能及环境参数

### Electrical Characteristics & Mechanical and Environmental Characteristics

阻抗 Impedance(Ohm)		50
电容 Capacitance(pF/m)		80
速率 Velocity(%)		83
峰值功率 Peak Power Rating(KW)		19
RF 峰值电压 RF Peak Voltage(KV)		1.13
绝缘阻抗 Insulation Resistance(M $\Omega$ .km)		>5000
截止频率 Cut-off Frequency(GHz)		12.5
绝缘电压 Insulation Voltage(KV)		2.5
内导体直流电阻 Inner Conductor DC Resistance( $\Omega$ /km)		2.85
外导体直流电阻 Outer Conductor DC Resistance( $\Omega$ /km)		3.50
护套电压 Jacket Spark(KV)		5.0
屏蔽衰减 Shilding Effectiveness(dB)		>120
驻波比 $\leq$ (回波损耗 $\geq$ dB) VSWR $\leq$ (Return loss $\geq$ dB)	0.005—3GHz	1.15 (23)
	0.8—1.0GHz	1.10 (26)
	1.7—2.0GHz	1.10 (26)
	2.0—2.4GHz	1.10 (26)
最小单次弯曲半径 Min. Single Bending Radius(mm)		50
最小多次弯曲半径 Min. Repeated Bending Radius(mm)		125
弯曲次数 No. of Bends		15
抗拉强度 Tensile Strength(kg)		110
贮存温度 Storage Temp.( $^{\circ}$ C)		-55~+85
安装温度 Installation Temp.( $^{\circ}$ C)		-40~+60
工作温度 Operating Temp.( $^{\circ}$ C)		-55~+85

衰减(驻波比 1.0, 电缆温度 20℃)及平均功率(驻波比 1.0, 环境温度 40℃)

Attenuation(VSWR1.0,cable temp.20℃)and Average Power( VSWR1.0,ambient temp.40℃)

频率 Frequency(MHz)	衰减 Attenuation(dB/100m)	平均功率 Average Power(KW)
100	3.22	3.03
200	4.65	2.11
450	7.20	1.37
800	9.86	1.00
900	10.56	0.94
1000	11.15	0.88
1500	13.80	0.70
1800	15.55	0.63
2000	16.40	0.59
2200	17.35	0.56
2400	18.10	0.53
2500	18.50	0.52
3000	20.90	0.48