

1-1/4" low loss physical foamed insulation coaxial cable
50 ohms corrugated copper tube series coaxial cable
RF 50 1-1/4"



1 : Inner Conductor 2 : Insulation
3 : Outer conductor 4 : Jacket

Construction		
Inner Conductor	Material	Smooth copper tube
	Dia.,mm	13.10
Insulation	Material	Physically foamed PE
	Dia.,mm	32.80
Outer conductor	Material	Ring corrugated copper
	Dia.,mm	35.80
Jacket	Material	LLDPE or fire retardant PE
	Dia.,mm	39.40
Weight, kg/km		980(standard)/1100(retardant)
Mechanical properties		
Bending radius (mm)	Single	200
	Repeated	380
	Moving	-
Pulling strength, N		5900
Crush resistance, kg/mm		2.2
Recommended temperature (°C)	Store	-70°C~+85°C
	Installation	-40°C~+60°C
	Operation	-55°C~+85°C
Electrical properties		
DC Resistance Ω/km	In. cond.	0.72
	Out. Cond.	0.62
Impedance, Ω		50 ± 1
Capacitance, pF/m		75
Propagation velocity, %		89
DC breakdown voltage, KV		9.0
Insulation voltage, MΩ · Km		>5 × 10 ³
Peak power, kW		205
Screening attenuation, dB		>>120
Cut-off frequency, GHz		3.3

Attenuation and average power		
Frequency MHZ	Nom.attenuation @20°C,dB/100m	Power rate @20°C ,KW
10	0.253	38.6
100	0.832	11.7
200	1.20	8.12
450	1.87	5.22
800	2.59	3.78
900	2.77	3.53
1000	2.94	3.32
1500	3.73	2.62
1800	4.16	2.35
2000	4.43	2.21
2500	5.08	1.92
3000	5.68	1.72
<ul style="list-style-type: none"> Maximum attenuation value shall be 105% of the nominal attenuation value 		
VSWR		
820~960MHz	≤1.10	
1700~1900MHz	≤1.10	
5~3000MHz	≤1.15	

Note:

- For fire retardant jacket, recommended temperatures are:

Store temperature	-30°C~+80°C
Installation temperature	-25°C~+60°C
Operation temperature	-30°C~+80°C