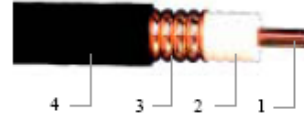


1/2" low loss physical foamed insulation coaxial cable  
50 ohms corrugated copper tube series coaxial cable  
**RF 50 1/2"**



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

Construction		
Inner Conductor	Material	Copper clad Al. wire
	Dia.,mm	4.80
Insulation	Material	Physically foamed PE
	Dia.,mm	12.20
Outer conductor	Material	Ring corrugated copper
	Dia.,mm	13.80
Jacket	Material	LLDPE or fire retardant PE
	Dia.,mm	15.80
Weight, kg/km		250(standard)/275(retardant)
Mechanical properties		
Bending radius, mm	Single	70
	Repeated	125
	Moving	350
Pulling strength, N		1130
Crush resistance, kg/mm		2.0
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.	1.48
	Out. Cond.	1.90
Impedance, Ω		50 ± 1
Capacitance, pF/m		75.8
Propagation velocity,%		88
DC breakdown voltage,KV		4.0
Insulation voltage,MΩ Km		>5 × 10 <sup>3</sup>
Peak power,kW		40
Screening attenuation, dB		>>120
Cut-off frequency, GHz		8.8

Attenuation and average power		
Frequency MHZ	Nom.attenuation @20°C,dB/100m	Power rate @20°C ,KW
10	0.672	11.30
100	2.17	3.49
200	3.10	2.44
450	4.75	1.59
800	6.46	1.17
900	6.87	1.10
1000	7.28	1.04
1500	9.09	0.833
1800	10.10	0.753
2000	10.70	0.710
2500	12.10	0.627
3000	13.40	0.565
<ul style="list-style-type: none"> <li>Maximum attenuation value shall be 105% of the nominal attenuation value</li> </ul>		
VSWR (Maximum value)		
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