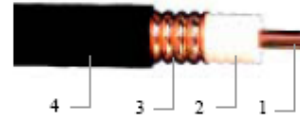


1/4" low loss physical foamed insulation coaxial cable
50 ohms corrugated copper tube series coaxial cable
RF 50 1/4"



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

Construction		
Inner Conductor	Material	Copper clad aluminum
	Dia. ,mm	2.60
Insulation	Material	Physically foamed PE
	Dia. ,mm	6.35
Outer conductor	Material	Ring corrugated copper
	Dia. ,mm	7.70
Jacket	Material	LLDPE or fire retardant PE
	Dia. ,mm	8.80
Weight, kg/km		90
Mechanical properties		
Bending radius , mm	Single	30
	Repeated	76
	Moving	-
Pulling strength, N		910
Crush resistance, kg/mm		1.4
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.	5.15
	Out. Cond.	3.33
Impedance, Ω		50 ± 1
Capacitance, pF/m		76.8
Propagation velocity,%		86
DC breakdown voltage,KV		2.2
Insulation voltage,MΩ Km		>5 × 10 ⁸
Peak power,kW		12.1
Screening attenuation, dB		>>120
Cut-off frequency, GHz		15.8

Attenuation and average power

Frequency MHZ	Nom.attenuation @20°C,dB/100m	Power rate @20°C ,KW
10	1.25	5.79
100	4.05	1.79
200	5.80	1.25
450	8.88	0.818
800	12.10	0.601
900	12.80	0.566
1000	13.60	0.533
1500	17.00	0.426
1800	18.90	0.385
2000	20.00	0.363
2300	21.60	0.336
3000	25.20	0.269

- 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