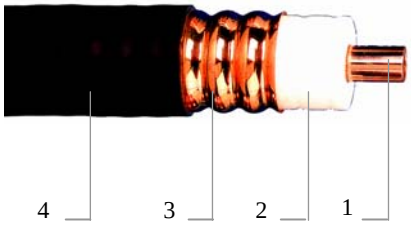
1-1/4″ low loss physical foamed insulation coaxial cable
RF 50 1-1/4″

Description	TYPE No.	PART NO.
Standard cable	RF50114	3111001
Fire retardant cable	RF50114 Z	3111002

Construction		
Inner Conductor	Material	Smooth copper tube
	Diameter, mm	13.10±0.10
Insulation	Material	Physically foamed PE
	Diameter, mm	32.80±0.40
Outer conductor	Material	Ring corrugated copper
	Diameter, mm	35.80±0.30
Jacket	Material	PE or fire retardant PE
	Diameter, mm	38.80±0.30

Mechanical properties		
Bending radius, mm	Single Repeated Moving	200 380 -
Pulling strength, N		5900
Crush resistance, kg/mm		2.2
Recommended temperature ,℃	Store Installation Operation	-70~+85 -40~+60 -55~+85

Electrical properties	
Impedance, Ω	50±1
Capacitance, PF/m	75
Propagation velocity, %	89
DC breakdown voltage, kV	9.0
Insulation resistance, MΩ•km	>5×10^3
Peak power, kW	205
Screening attenuation, dB	>>120
Cut-off frequency, GHz	3.3



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

Figure 3:RF50 1-1/4″ coaxial cable

Attenuation and average power		
Frequency MHz	Nom. attenuation @20℃,dB/100m	Power rate @20℃,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

- Maximum attenuation value shall be 105% of the nominal attenuation value

VSWR	
800~1000MHz	≤1.15
1700~2200MHz	≤1.15
5~3000MHz	≤1.25

Note:

- For fire retardant cable, recommended temperatures are:
  Store temperature -30~+80℃
  Installation temperature -25~+60℃
  Operation temperature -30~+80℃

Meet the IEC requirements according to:

IEC 60754-1、IEC60754-2

IEC 60332-1、IEC 60332-3.C、IEC 61034

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