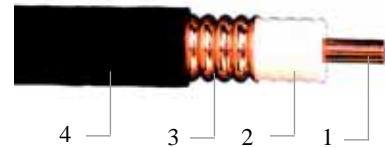


Product Specification

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3/8" low loss physical foamed insulation coaxial cable RF 50 3/8"

Description	TYPE No.	PART NO.
Standard cable	RF5038	3110401
Fire retardant cable	RF5038 Z	3110402
Construction		
Inner Conductor	Material	Copper clad aluminum wire
	Diameter, mm	3.15±0.03
Insulation	Material	Physically foamed PE
	Diameter, mm	8.20±0.20
Outer conductor	Material	Ring corrugated copper
	Diameter, mm	9.53±0.20
Jacket	Material	PE or fire retardant PE
	Diameter, mm	11.20±0.20
Mechanical properties		
Bending radius, mm	Single	50
	Repeated	95
	Moving	300
Pulling strength, N		800
Crush resistance, kg/mm		2.0
Recommended temperature, °C	Store	-70~+85
	Installation	-40~+60
	Operation	-55~+85
Electrical properties		
Impedance, Ω		50±1
Capacitance, PF/m		75
Propagation velocity, %		88
DC breakdown voltage, kV		2.5
Insulation resistance, MΩ •km		>5×10 ³
Peak power, kW		15.6
Screening attenuation, dB		>>120
Cut-off frequency, GHz		13.5



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

Figure 4: RF50 3/8" coaxial cable

Attenuation and average power		
Frequency MHz	Nom. attenuation @20°C, dB/100m	Power rate @20°C, kW
10	1.06	7.23
100	3.42	2.24
200	4.90	1.56
450	7.51	1.02
800	10.20	0.748
900	10.90	0.702
1000	11.60	0.663
1500	14.40	0.530
1800	16.00	0.479
2000	17.00	0.451
2500	19.30	0.400
3000	21.40	0.358
<ul style="list-style-type: none"> 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 jacket, recommended temperatures are:
 Store temperature -30~+80°C
 Installation temperature -25~+60°C
 Operation temperature -30~+80°C
- This cable is RoHS compliant. As a statement of RoHS compliant, you can find the label below on our product package.

RoHS