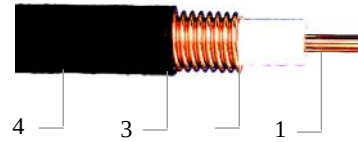


1/2" S Super-flexible physical foamed insulation coaxial cable
RF 50 1/2" S



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

Figure 5: RF50 1/2" S coaxial cable

Description		TYPE No.
Standard cable		RF5012S
Fire retardant cable		RF5012S Z
Construction		
Inner Conductor	Material	Copper clad aluminum wire
	Diameter, mm	3.60±0.04
Insulation	Material	Physically foamed PE
	Diameter, mm	9.20±0.20
Outer conductor	Material	Helically corrugated copper
	Diameter, mm	12.00±0.20
Jacket	Material	PE or fire retardant PE
	Diameter, mm	13.60±0.20
Mechanical properties		
Bending radius, mm	Single	25
	Repeated	30
	Moving	200
Pulling strength, N		800
Crush resistance, kg/mm		1.9
Recommend temperature, °C	Store	-70~+85
	Installation	-40~+60
	Operation	-55~+85
Electrical properties		
Impedance, Ω		50±1
Capacitance, PF/m		82
Inductance, μH/m		0.205
Propagation velocity, %		81
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		10.2

Attenuation and average power		
Frequency MHz	Nom. attenuation @20°C, dB/100m	Power rate @20°C, kW
10	1.04	10.1
100	3.41	3.08
200	4.91	2.14
450	7.59	1.38
800	10.4	1.01
900	11.2	0.943
1000	11.8	0.889
1500	14.9	0.705
1800	16.6	0.634
2000	17.6	0.597
2300	19.1	0.549
3000	22.4	0.469
• Maximum attenuation value shall be 105% of the nominal attenuation value		
VSWR		
800~1000MHz	≤1.15	
1700~2400MHz	≤1.15	

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