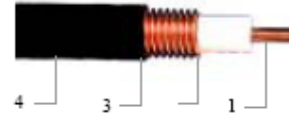


1/2" S Superflexible physical foamed insulation coaxial cable
50 ohms corrugated copper tube series coaxial cable

RF 50 1/2" S



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

Construction		
Inner Conductor	Material	Copper clad Al. wire
	Dia. ,mm	3.60
Insulation	Material	Physically foamed PE
	Dia. ,mm	8.80
Outer conductor	Material	Helically corrugated copper
	Dia. ,mm	12.20
Jacket	Material	LLDPE or fire retardant PE
	Dia. ,mm	13.60
Weight, kg/km		210(standard)/225(retardant)
Mechanical properties		
Bending radius , mm	Single	25
	Repeated	30
	Moving	200
Pulling strength, N		800
Crush resistance, kg/mm		1.9
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.	2.69
	Out. Cond.	3.28
Impedance, Ω		50 ± 1
Capacitance, pF/m		82
Propagation velocity, %		81
DC breakdown voltage, KV		2.5
Insulation voltage, 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
2500	19.7	0.535
3000	22.4	0.469

- 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