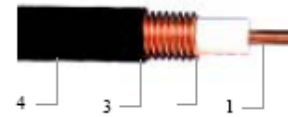


1/4" S Superflexible physical foamed insulation coaxial cable
50 ohms corrugated copper tube series coaxial cable

RF 50 1/4" S



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

Construction		
Inner Conductor	Material	Copper clad aluminum
	Dia.,mm	1.90
Insulation	Material	Physically foamed PE
	Dia.,mm	4.70
Outer conductor	Material	Helically corrugated copper
	Dia.,mm	6.40
Jacket	Material	LLDPE or fire retardant PE
	Dia.,mm	7.40
Weight, kg/km		67
Mechanical properties		
Bending radius, mm	Single	20
	Repeated	25
	Moving	-
Pulling strength, N		680
Crush resistance, kg/mm		1.8
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.	9.80
	Out. Cond.	6.50
Impedance, Ω		50 ± 1
Capacitance, pF/m		79.4
Propagation velocity,%		84
DC breakdown voltage,KV		1.6
Insulation voltage,MΩ Km		>5 × 10 ³
Peak power,kW		6.4
Screening attenuation, dB		>>120
Cut-off frequency, GHz		20.4

Attenuation and average power

Frequency MHZ	Nom.attenuation @20°C,dB/100m	Power rate @20°C, KW
10	1.83	3.97
100	5.89	1.23
200	8.41	0.865
450	12.80	0.567
800	17.40	0.419
900	18.40	0.395
1000	19.60	0.372
1500	24.30	0.299
1800	26.90	0.271
2000	28.50	0.256
2300	30.70	0.237
3000	35.60	0.204

- 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