

Technical Specification

1/2" Super Flexible RF Coaxial Cable



Jacket outer Conductor Insulation Inner Conductor

Type		Type No.
Standard cable		HCAHY-50-9
Fire-retardant cable		HCAHYZ-50-9
Construction		
Inner conductor	Material	CCA
	Diameter (mm)	3.60±0.05
Insulation	Material	Foamed PE
	Diameter (mm)	9.85±0.20
Outer conductor	Material	Helical corrugated copper tube
	Diameter (mm)	12.0±0.15
Jacket	Material	LDPE
	Min.thickness (mm)	> 0.50
	Diameter (mm)	13.40±0.20
Mechanical Characteristics		
Bending radius (mm)	Single bend	22
	Repeated bend	65
Tensile strength (N)		750
Recommended temperature (°C)	Storage	-40~+80
	Installation	-35~+60
	Operating	-40~+80

Note:

For fire-retardant jackter cable, recommended temperature:

Storage: -30°C~+80°C

Installation: -25°C~+60°C

Operating temperature: -30°C~+80°C

Electrical Characteristics

Inner conductor DC resistance (Ω/km)	3.05
Outer conductor DC resistance (Ω/km)	5.39
Characteristic impedance (Ω)	50±1.5
Capacitance (p F/m)	86
Velocity (%)	80
Dielectric strength (KV)	3.0
Insulation resistance (MΩ/km)	> 1×10 ⁴
Cut-off frequency (GHz)	10.2

Attenuation and Average power (Maximum attenuation value shall be 105% of the nominal attenuation value)

Frequency (MHz)	Attenuation (@20°C, dB/100m)	Average power (kw)
200	4.99	2.13
450	7.79	1.34
800	10.61	0.98
900	11.42	0.92
1000	11.99	0.86
1500	14.98	0.69
1800	16.38	0.61
2000	17.47	0.58
2200	18.51	0.54
2500	19.78	0.50
3000	22.36	0.46
3800	25.59	0.35

VSWR

800MHz~1000MHz	≤ 1.12
1700MHz~2500MHz	≤ 1.15
2500MHz~3000MHz	≤ 1.15
3000MHz~3800MHz	≤ 1.18

● PIM ≤-158dBc@1800MHZ

● Products meet the RoHS requirement, and according to the requirements of RoHS, you can see the RoHS mark on the outside package.