

Technical Specification

1/4" Super Flexible RF Coaxial Cable



Type		Type No.
Standard cable		HCAAY-50-5
Fire-retardant cable		HCAAYZ-50-5
Construction		
Inner conductor	Material	Copper clad aluminum wire
	Diameter (mm)	1.90 ± 0.03
Insulation	Material	Foamed PE
	Diameter (mm)	4.85 ± 0.15
Outer conductor	Material	Helical corrugated copper tube
	Diameter (mm)	6.40 ± 0.15
Jacket	Material	LLDPE or fire-retardant PE
	Diameter (mm)	7.50 ± 0.20
Mechanical Characteristics		
Bending radius (mm)	Single bend	15
	Repeated bend	25
Tensile strength (N)		600
Recommended temperature (°C)	Storage	-70~+85
	Installation	-40~+60
	Operating	-55~+85

For fire-retardant jacket 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)	10.20
Outer conductor DC resistance (Ω/km)	9.30
Characteristic impedance (Ω)	50
Capacitance (pF/m)	80
Velocity (%)	83
Dielectric strength (KV)	2.0
Insulation resistance ($M\Omega/\text{km}$)	$>1 \times 10^4$
Peak power rating (KW)	7.5
Peak voltage (V)	1200
Cut-off frequency (GHz)	19

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	8.36	0.83
450	13.10	0.53
800	17.51	0.40
900	18.50	0.37
1000	19.60	0.35
1500	25.55	0.29
2000	28.51	0.24
2200	30.22	0.23
2500	32.21	0.21
3000	35.52	0.19

VSWR

800MHz~1000MHz	1.13
1700MHz~2500MHz	1.15
2500MHz~3000MHz	1.20

Cable weight (kg/km)	PE	55
	FR	65

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