

Technical Specification

1/4" Flexible RF Coaxial Cable



Type		Type No.
Standard cable		HCAAY-50-6
Fire-retardant cable		HCAAYZ-50-6
Construction		
Inner conductor	Material	Copper clad aluminum wire
	Diameter (mm)	2.60 ± 0.03
Insulation	Material	Foamed PE
	Diameter (mm)	6.70 ± 0.20
Outer conductor	Material	Helical corrugated copper tube
	Diameter (mm)	7.70 ± 0.25
Jacket	Material	LLDPE or fire-retardant PE
	Diameter (mm)	9.50 ± 0.20
Mechanical Characteristics		
Bending radius (mm)	Single bend	50
	Repeated bend	120
Tensile strength (N)		560
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)	5.52
Outer conductor DC resistance (Ω/km)	6.20
Characteristic impedance (Ω)	50
Capacitance (pF/m)	78
Velocity (%)	85
Dielectric strength (KV)	2.5
Insulation resistance ($M\Omega/\text{km}$)	$>1 \times 10^4$
Peak power rating (KW)	7.5
Peak voltage (V)	1050
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)
150	5.50	1.36
450	9.14	1.08
700	12.12	0.80
800	12.70	0.76
900	13.35	0.74
1700	19.37	0.53
1800	19.52	0.51
2000	20.63	0.49
2200	21.87	0.45
2500	23.44	0.42
2700	28.0	0.38
3000	28.36	0.35

VSWR

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

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