

Technical Specification

1/2" Flexible RF Coaxial Cable



Type		Type No.
Standard cable		HCAAY-50-12
Fire-retardant cable		HCAAYZ-50-12
Construction		
1. Inner conductor	Material	Copper clad aluminum wire
	Diameter (mm)	4.80 ± 0.05
2. Insulation	Material	Foamed PE
	Diameter (mm)	12.2 ± 0.2
3. Outer conductor	Material	Annular corrugated copper tube
	Diameter (mm)	13.80 ± 0.15
4. Jacket	Material	LLDPE
	Diameter (mm)	15.70 ± 0.20
Mechanical Characteristics		
Bending radius (mm)	Single bend	50
	Repeated bend	125
Tensile strength (N)		1050
Cable weight (kg/km)		180
Recommended temperature (°C)	Storage	-70~+85
	Installation	-40~+60
	Operating	-55~+85

Note:

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

Characteristic impedance (Ω)	50
Capacitance (p F/m)	76
Velocity (%)	86
Dielectric strength (KV)	6.0
Insulation resistance ($M\Omega$ /km)	$> 1 \times 10^4$
Peak power rating (KW)	40
Peak voltage (V)	1800
Cut-off frequency (GHz)	6.0

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	2.7	2.45
450	4.75	1.59
800	6.46	1.17
900	6.86	1.10
1800	10.1	0.75
2000	10.72	0.71
2200	11.25	0.67
2400	11.97	0.64
2500	12.13	0.62
2700	12.70	0.60
3000	13.41	0.57

VSWR

800MHz~1000MHz	1.10
1700MHz~2500MHz	1.13
2500MHz~3000MHz	1.15

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