

Standard Jacket: HCAAY-50-12 (1/2")

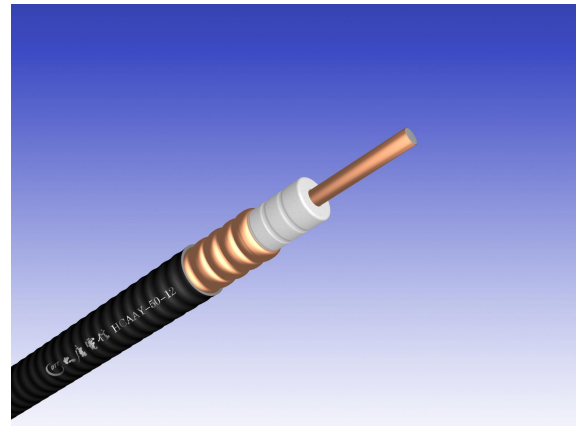
Fire retardant Jacket: HCAAYZ-50-12(1/2"retardant)

Characteristics

Low Attenuation, low VSWR,
High expansion, high power rating,
Excellent environmental performance
and Mechanical Performance.

Application

Widely used in wireless
communication base station.



1/2" Coaxial Cable

Construction

Inner conductor	
Copper Clad Aluminum	
Diameter (mm)	4.80±0.10
Insulation	
3 layers of Insulation	
Diameter (mm)	12.40±0.30
Outer conductor	
Corrugated Copper-tube	
Outer conductor (mm)	13.80±0.25
Jacket	
Thickness (mm)	1.00±0.20
Diameter (mm)	15.8±0.30

Engineering data

Minimum Bending Radius (mm)	
Single Bending	70
Multiple Bending	125
Number of Bends	15
Temperature range (°C)	
Standard Jacket	-40~+70
Fire Retardant Jacket	-25~+70

Electrical Performance

Impedance (Ω)	50 ± 1	
Capacitance (pF/m)	76	
Velocity (%)	88	
Dc Breakdown, volts (V)	≥4000	
Shielding Effectiveness (dB)	>>120	
Cut-off Frequency (GHz)	8.8	
Attenuation (dB/100m) and average power (kW)		
Frequency	Attenuation	Average Power
150 MHz	2.67	3.17
450 MHz	4.74	1.80
800 MHz	6.45	1.33
900 MHz	6.87	1.25
1800 MHz	10.08	0.86
2000 MHz	10.70	0.81
2500 MHz	12.10	0.72
3000 MHz	13.39	0.65
VSWR		
820MHz~960MHz	1.10	
1700MHz~2200MHz	1.13	
2200MHz~2700MHz	1.15	

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20°C

For average power: VSWR 1.0, ambient temperature 40°C

Inner conductor temperature 100°C.No solar loading.

Maximum VSWR and attenuation value shall be 105% of the nominal value.