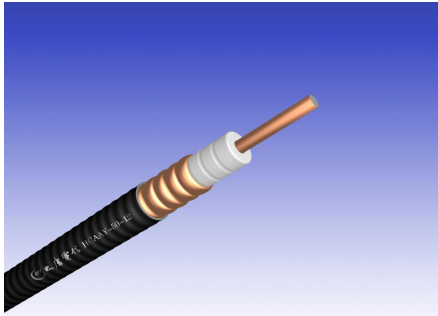


## 50 ohm Corrugated Copper-tube Outer Conductor Coaxial Cables for Wireless Communication

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

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



1/2"Flexible Coaxial Cable

### Characteristics

Low Attenuation, low VSWR, High expansion, high power rating, Excellent environmental performance and Mechanical Performance. 1/2" fire retardant cable fulfills the severe requirements of CPR

Class B2ca-s1-d1-a1  
 Cable Normal: ECA

### Construction

<b>Inner conductor</b>	
Copper Clad Aluminum	
Diameter (mm)	4.80±0.10
<b>Insulation</b>	
3 layers of Insulation	
Diameter (mm)	12.20±0.20
<b>Outer conductor</b>	
Corrugated Copper-tube	
Outer conductor (mm)	13.80±0.25
<b>Jacket</b>	
Thickness (mm)	1.00±0.20
Diameter (mm)	15.70±0.20

### Electrical Performance

Impedance (Ω)	50±1		
Capacitance (pF/m)	76		
Inductance (uH/m)	0.19		
Velocity (%)	88		
Dc Breakdown, volts (V)	≥4000		
Peak Power(kW)	40		
Shielding Effectiveness (dB)	>>120		
Insulation Resistance(MΩ.km)	5000		
Cut-off Frequency (GHz)	8.8		
Frequency (MHz)	Return Loss(dB)	Attenuation (dB/100m)	Average Power (kW)
150 MHz	21.5	2.65	2.83
450 MHz	21.5	4.73	1.59
800 MHz	23	6.44	1.17
900 MHz	23	6.84	1.10
1800 MHz	23	10.08	0.73
2000 MHz	23	10.70	0.71
2500 MHz	23	12.14	0.62
3000 MHz	21	13.48	0.56
3400 MHz	21	14.49	0.52
3600 MHz	21	14.98	0.50
3700 MHz	21	15.23	0.49
3800 MHz	21	15.46	0.48
4000 MHz	19	15.94	0.47
4800 MHz	19	17.75	0.42
4900 MHz	19	17.97	0.42
5000 MHz	19	18.18	0.42

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**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

**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 return loss and attenuation value shall be 105% of the nominal value.