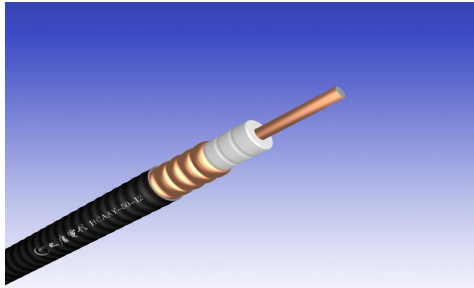


50 ohm Corrugated Copper-tube Outer Conductor Coaxial Cables for Wireless Communication

Standard Jacket: HCAHY-50-9 (1/2" S)

Fire retardant Jacket: HCAHYZ-50-9(1/2" S LSZH)



1/2" Super 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

Inner conductor	
Copper Clad Aluminum	
Diameter (mm)	3.60±0.10
Insulation	
3 layers of Insulation	Foam PE
Diameter (mm)	9.70±0.40
Outer conductor	
Corrugated Copper-tube	
Outer conductor (mm)	12.00±0.25
Jacket	
Thickness (mm)	0.80±0.20
Diameter (mm)	13.40±0.20

Electrical Performance

Impedance (Ω)	50±1		
Capacitance (pF/m)	82		
Inductance (uH/m)	0.205		
Velocity (%)	84		
Dc Breakdown, volts (V)	≥2500		
Peak Power(kW)	16		
Shielding Effectiveness (dB)	>>120		
Insulation Resistance(MΩ.km)	5000		
Cut-off Frequency (GHz)	10.2		
Frequency (MHz)	Return Loss(dB)	Attenuation (dB/100m)	Average Power (kW)
150 MHz	21.5	4.06	2.49
450 MHz	21.5	7.25	1.38
800 MHz	23	9.90	1.01
900 MHz	23	10.52	0.95
1800 MHz	23	15.55	0.63
2000 MHz	23	16.51	0.60
2500 MHz	23	18.77	0.53
3000 MHz	21	20.86	0.47
3400 MHz	21	22.45	0.44
3600 MHz	21	23.22	0.43
3700 MHz	21	23.60	0.42
3800 MHz	21	23.98	0.41
4000 MHz	19	24.72	0.39
4800 MHz	19	27.57	0.34
4900 MHz	19	27.91	0.34
5000 MHz	19	28.25	0.34

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**Engineering data**

Minimum Bending Radius (mm)	
Single Bending	25
Multiple Bending	30
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.