

# HCAAY-50-12 (1/2")



Construction		
	Material	Diameter(mm)
Inner Conductor	Copper Clad Aluminum Wire	4.8
Dielectric	Foamed PE	12.3
Outer Conductor	Ring Corrugated Copper Tube	13.8
Jacket	PE or Low Smoke Halogen-free Fire-retardant PE	15.7
Electrical & Mechanical Properties		
Impedance (Ohm)		50±1
Capacitance(pF/m)		76
Velocity(%)		88
Peak Power Rating(kw)		40
RF Peak Voltage (kv)		1.6
Insulation Resistance(M Ω . km)		>5000
Cut-off Frequency(GHz)		8.8
Insulation Voltage(kv)		6
Inner Conductor DC Resistance( Ω /km)		1.48
Outer Conductor DC Resistance( Ω /km)		1.9
Jacket Spark(kv)		8.0
Shielding Effectiveness(dB)		>120
Min. Single Bending Radius(mm)		80
Min. Repeated Bending Radius(mm)		125
No. of Bends		15
Tensile Strength(kg)		110
Storage Temp.(°C)		-55~+85
Installation Temp.(°C)		-40~+60
Operating Temp.(°C)		-55~+85
VSWR≤(Return loss≥dB)	Frequency	dB
	0.005—3GHz	1.15 (23)
	0.8—1.0GHz	1.10 (26)
	1.7—2.0GHz	1.10 (26)
	2.0—2.4GHz	1.10 (26)

Attenuation (VSWR1.0,cable temp.20℃) and Average Power ( VSWR1.0,ambient temp.40℃)

Frequency(MHz)	Attenuation(dB/100m)	Average Power(kw)
100	2.15	3.94
200	3.08	2.75
450	4.70	1.80
800	6.35	1.33
900	6.70	1.25
1000	7.20	1.18
1500	9.05	0.95
1800	9.90	0.86
2000	10.50	0.81
2200	11.10	0.77
2400	11.60	0.75
2500	11.95	0.73
3000	13.20	0.65