

HCAAY-50-8 (3/8")



Construction		
	Material	Diameter(mm)
Inner Conductor	Copper Clad Aluminum Wire	3.3
Dielectric	Foamed PE	8.3
Outer Conductor	Ring Corrugated Copper Tube	9.6
Jacket	PE or Low Smoke Halogen-free Fire-retardant PE	11.2
Electrical & Mechanical Properties		
Impedance (Ohm)		50±1
Capacitance(pF/m)		76
Velocity(%)		88
Peak Power Rating(kw)		15.6
RF Peak Voltage (kv)		1.05
Insulation Resistance(MΩ . km)		>5000
Cut-off Frequency(GHz)		13.5
Insulation Voltage(kv)		2.5
Inner Conductor DC Resistance(Ω /km)		3.1
Outer Conductor DC Resistance(Ω /km)		2.8
Jacket Spark(kv)		5.0
Shielding Effectiveness(dB)		>120
Min. Single Bending Radius(mm)		40
Min. Repeated Bending Radius(mm)		95
No. of Bends		15
Tensile Strength(kg)		53
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	3.12	2.23
200	4.45	1.56
450	6.79	1.02
800	9.20	0.75
900	9.80	0.71
1000	10.37	0.67
1500	12.90	0.53
1800	14.25	0.48
2000	15.10	0.46
2200	15.90	0.43
2400	16.70	0.42
2500	17.08	0.41
3000	18.90	0.37