

HCAHY-50-9 (1/2" s)



Construction		
	Material	Diameter(mm)
Inner Conductor	Copper Clad Aluminum Wire	3.55
Dielectric	Foamed PE	8.70
Outer Conductor	Helical Corrugated Copper Tube	12.00
Jacket	PE or Low Smoke Halogen-free Fire-retardant PE	13.40
Electrical & Mechanical Properties		
Impedance (Ohm)		50±1
Capacitance(pF/m)		80
Velocity(%)		83
Peak Power Rating(kw)		19
RF Peak Voltage (kv)		1.13
Insulation Resistance(M Ω . km)		>5000
Cut-off Frequency(GHz)		12.5
Insulation Voltage(kv)		2.5
Inner Conductor DC Resistance(Ω /km)		2.85
Outer Conductor DC Resistance(Ω /km)		3.5
Jacket Spark(kv)		5.0
Shielding Effectiveness(dB)		>120
Min. Single Bending Radius(mm)		50
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°C) and Average Power (VSWR1.0,ambient temp.40°C)

Frequency(MHz)	Attenuation(dB/100m)	Average Power(kw)
100	3.22	3.03
200	4.65	2.11
450	7.20	1.37
800	9.86	1.00
900	10.56	0.94
1000	11.15	0.88
1500	13.80	0.70
1800	15.55	0.63
2000	16.40	0.59
2200	17.35	0.56
2400	18.10	0.53
2500	18.50	0.52
3000	20.90	0.48