

HCTAY-50-16 (5/8")



Construction		
	Material	Diameter(mm)
Inner Conductor	Smooth Copper Tube	7.0
Dielectric	Foamed PE	18.0
Outer Conductor	Ring Corrugated Copper Tube	19.7
Jacket	PE or Low Smoke Halogen-free Fire-retardant PE	21.9
Electrical & Mechanical Properties		
Impedance (Ohm)		50±1
Capacitance(pF/m)		76
Velocity(%)		88
Peak Power Rating(kw)		62
RF Peak Voltage (kv)		2.5
Insulation Resistance(M Ω . km)		>5000
Cut-off Frequency(GHz)		6.5
Insulation Voltage(kv)		8
Inner Conductor DC Resistance(Ω /km)		1.32
Outer Conductor DC Resistance(Ω /km)		1.43
Jacket Spark(kv)		8.0
Shielding Effectiveness(dB)		>120
Min. Single Bending Radius(mm)		73
Min. Repeated Bending Radius(mm)		200
No. of Bends		15
Tensile Strength(kg)		115
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	1.49	5.71
200	2.14	3.97
450	3.28	2.58
800	4.48	1.89
900	4.77	1.77
1000	5.06	1.67
1500	6.42	1.33
1800	7.02	1.20
2000	7.46	1.13
2200	7.87	1.10
2400	8.27	1.03
2500	8.60	0.99
3000	9.41	0.89