

HCTAY-50-32 (1-1/4")



Construction		
	Material	Diameter(mm)
Inner Conductor	Smooth Copper Tube	13.1
Dielectric	Foamed PE	33.3
Outer Conductor	Ring Corrugated Copper Tube	36.0
Jacket	PE or Low Smoke Halogen-free Fire-retardant PE	38.6
Electrical & Mechanical Properties		
Impedance (Ohm)		50±1
Capacitance(pF/m)		76
Velocity(%)		88
Peak Power Rating(kw)		205
RF Peak Voltage (kv)		4.3
Insulation Resistance(M Ω . km)		>5000
Cut-off Frequency(GHz)		3.7
Insulation Voltage(kv)		10
Inner Conductor DC Resistance(Ω /km)		0.50
Outer Conductor DC Resistance(Ω /km)		0.45
Jacket Spark(kv)		10
Shielding Effectiveness(dB)		>120
Min. Single Bending Radius(mm)		150
Min. Repeated Bending Radius(mm)		380
No. of Bends		15
Tensile Strength(kg)		290
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	0.82	12.52
200	1.19	8.64
450	1.85	5.52
800	2.57	4.03
900	2.74	3.73
1000	2.92	3.50
1500	3.70	2.80
1800	4.12	2.50
2000	4.39	2.31
2200	4.63	2.19
2400	4.88	2.08
2500	5.01	2.02
3000	5.63	1.79