

# HHTAY-50-42 (1-5/8" )



Construction		
	Material	Diameter(mm)
Inner Conductor	Helical Corrugated Copper Tube	17.5
Dielectric	Foamed PE	43.5
Outer Conductor	Ring Corrugated Copper Tube	46.5
Jacket	PE or Low Smoke Halogen-free Fire-retardant PE	49.5
Electrical & Mechanical Properties		
Impedance (Ohm)		50±1
Capacitance(pF/m)		76
Velocity(%)		88
Peak Power Rating(kw)		320
RF Peak Voltage (kv)		5.7
Insulation Resistance(M Ω . km)		>5000
Cut-off Frequency(GHz)		2.8
Insulation Voltage(kv)		15
Inner Conductor DC Resistance( Ω /km)		0.85
Outer Conductor DC Resistance( Ω /km)		0.40
Jacket Spark(kv)		10.0
Shielding Effectiveness(dB)		>120
Min. Single Bending Radius(mm)		200
Min. Repeated Bending Radius(mm)		510
No. of Bends		15
Tensile Strength(kg)		330
Storage Temp.(°C)		-55~+85
Installation Temp.(°C)		-40~+60
Operating Temp.(°C)		-55~+85
	Frequency	dB
VSWR ≤ (Return loss ≥ 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	0.67	16.90
200	0.98	11.60
450	1.53	7.36
800	2.12	5.26
900	2.28	4.93
1000	2.42	4.61
1500	3.09	3.64
1800	3.45	3.27
2000	3.68	3.00
2200	3.91	2.85
2400	4.13	2.70
2500	4.24	2.61