

# Leaky Cable

## HLCAY(R)-50-12 (1/2")



Construction		
	Material	Diameter(mm)
Inner Conductor	Copper Clad Aluminum Wire	4.8
Dielectric	Foamed PE	12.3
Outer Conductor	Overlapping Copper Foil With Slots	13.6
Jacket	PE or Low Smoke Halogen-free Fire-retardant PE	15.5
Electrical & Mechanical Properties		
Impedance (Ohm)		50
Capacitance(pF/m)		76
Velocity(%)		88
Insulation Resistance(M $\Omega$ . km)		>5000
Cut-off Frequency(GHz)		1.0
Insulation Voltage(kv)		6
Inner Conductor DC Resistance( $\Omega$ /km)		1.48
Outer Conductor DC Resistance( $\Omega$ /km)		3.40
Jacket Spark(kv)		8.0
Min. Single Bending Radius(mm)		50
Tensile Strength(kg)		100
Storage Temp.( $^{\circ}$ C)		-55~+85
Installation Temp.( $^{\circ}$ C)		-40~+60
Operating Temp.( $^{\circ}$ C)		-55~+85
VSWR $\leq$ (Return loss $\geq$ dB)	Frequency	dB
	0.3—0.5GHz	1.20 (21)
	0.8—1.0GHz	1.20 (21)
Attenuation & Coupling Loss		
Frequency(MHz)	Attenuation(dB/100m)	Coupling Loss (50% / 95% dB)
150	3.30	62/70
450	5.90	65/70
800	8.40	64/70
900	9.10	63/70