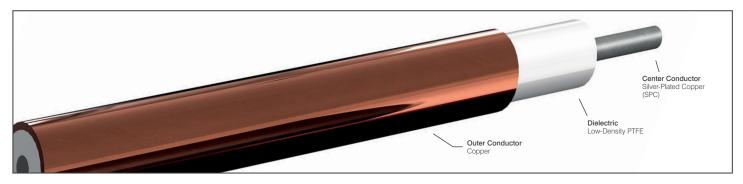


Low-Loss Semi-Rigid Coaxial Cables P/N UT-047C-LL | 50 Ω Copper Outer Conductor

INTRODUCTION



Low-loss semi-rigid cables provide lower attenuation, better phase stability with temperature, and a higher operating temperature compared to traditional solid PTFE semi-rigid cables.

Our low-loss semi-rigid cables are available with a copper, tin-plated copper, aluminum, or tin-plated aluminum outer conductor.

DIMENSIONS				
Outer Conductor Diameter	in	0.047 ± 0.001		
	mm	1.194 ± 0.025		
Center Conductor Diameter	in	0.0080		
	mm	0.2032		
Length (Maximum)	Feet	20		
	Meter	6.10		

MATERIALS	
Outer Conductor	Copper
Outer Conductor Plating	None
Dielectric	LD PTFE
Center Conductor	SPC
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*				
Outer Conductor Integrity Temp.	°C	250		
Operating Temperature (Max)	°C	250		
Incide Dand Dadius (Minimum)	in	0.125		
Inside Bend Radius (Minimum)	mm	3.175		
Weight	lbs / 100ft	0.39		
	kg / 100m	0.59		

^{*} Applicable at room temperature. Contact factory for performance over temperature range.

ELECTRICAL CHARACTERISTICS*				
Characteristic Impedance	ohm	50		
0 1	pF / ft	26.5		
Capacitance	pF/m	86.8		
Corona Extinction Voltage	VRMS @ 60 Hz	900		
Voltage Withstanding	VRMS @ 60 Hz	2700		
Higher Order Mode Frequency	GHz	116.0		
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	21.9		
	@ 1.0 GHz	31.1		
	@ 5.0 GHz	70.2		
	@ 10.0 GHz	100		
	@ 18.0 GHz	135.2		
	@ 26.5 GHz	165.2		
	@ 40.0 GHz	204.8		
	@ 50.0 GHz	230.2		
	@ 65.0 GHz	264.4		
	@ 90.0 GHz	314.4		
Power (Watts Cw @ 20°C, Maximum)	@ 0.5 GHz	125.6		
	@ 1.0 GHz	88.7		
	@ 5.0 GHz	39.4		
	@ 10.0 GHz	27.7		
	@ 18.0 GHz	20.5		
	@ 26.5 GHz	16.8		
	@ 40.0 GHz	13.6		
	@ 50.0 GHz	12.1		
	@ 65.0 GHz	10.6		
	@ 90.0 GHz	8.9		



See our complete line of Semi-Rigid Coaxial Cables at: CarlislelT.com/products/wire-cable/semi-rigid-coaxial-cables +1 (800) 458-9960 Sales@CarlislelT.com