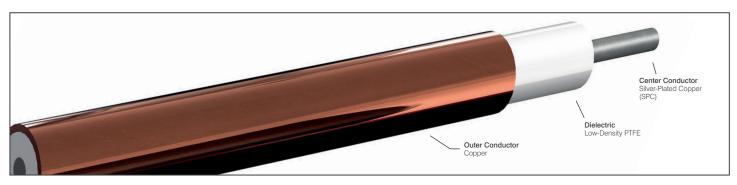


## Low-Loss Semi-Rigid Coaxial Cables P/N UT-047C-LL | 50 Ω Copper Outer Conductor

## 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	0.0126			
	mm	0.3200			
Length (Maximum)	Feet	20			
	Meter	6.10			

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Outer Conductor	Copper
Outer Conductor Plating	None
Dielectric	LD PTFE
Center Conductor	SPC
RoHS Compliant	$\checkmark$

MECHANICAL CHARACTERISTICS*					
Outer Conductor Integrity Temp.	°C	250			
Operating Temperature (Max)	°C	250			
Inside Bend Radius (Minimum)	in	0.125			
	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			
	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			
	@ 0.5 GHz	21.9			
	@ 1.0 GHz	31.1			
	@ 5.0 GHz	70.2			
	@ 10.0 GHz	100			
Attenuation	@ 18.0 GHz	135.2			
(Db / 100 Ft Typical)	@ 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			
	@ 0.5 GHz	125.6			
	@ 1.0 GHz	88.7			
Power (Watts Cw @ 20 °C, Maximum)	@ 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