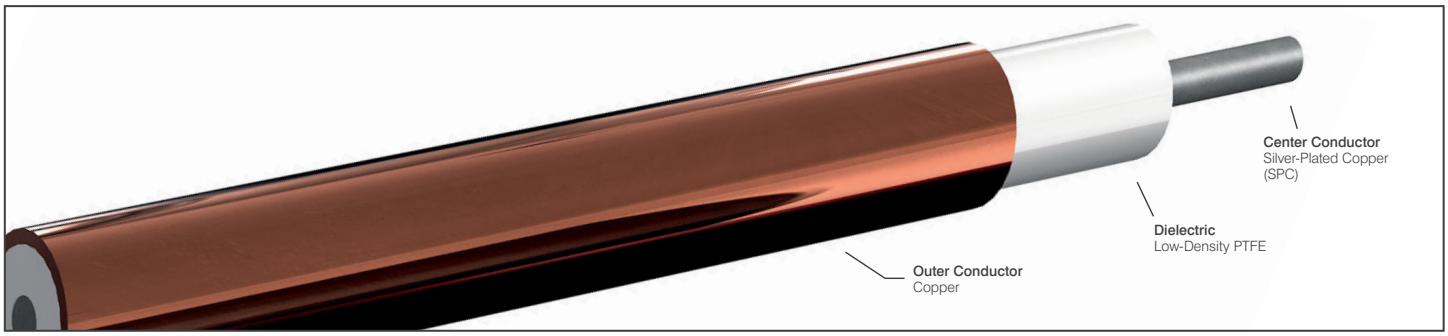
Low-Loss Semi-Rigid Coaxial Cables

P/N UT-085C-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	0.0865 ± 0.0010
	mm	2.1971 ± 0.0254
Center Conductor Diameter	in	0.0226
	mm	0.5740
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
Inside Bend Radius (Minimum)	in	0.250
	mm	6.350
Weight	lbs / 100ft	1.39
	kg / 100m	2.09

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

ELECTRICAL CHARACTERISTICS*		
Characteristic Impedance	ohm	50
Capacitance	pF / ft	26.5
	pF / m	86.8
Corona Extinction Voltage	VRMS @ 60 Hz	1600
Voltage Withstanding	VRMS @ 60 Hz	4800
Higher Order Mode Frequency	GHz	65.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	12.4
	@ 1.0 GHz	17.5
	@ 5.0 GHz	39.9
	@ 10.0 GHz	57.2
	@ 18.0 GHz	77.8
	@ 26.5 GHz	95.5
	@ 40.0 GHz	119.2
	@ 50.0 GHz	134.5
	@ 65.0 GHz	155.3
	@ 90.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	343.4
	@ 1.0 GHz	242.1
	@ 5.0 GHz	106.9
	@ 10.0 GHz	74.9
	@ 18.0 GHz	55.3
	@ 26.5 GHz	45.1
	@ 40.0 GHz	36.3
	@ 50.0 GHz	32.3
	@ 65.0 GHz	28
	@ 90.0 GHz	N/A