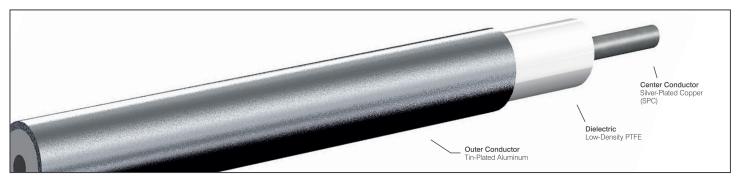
## Low-Loss Semi-Rigid Coaxial Cables P/N UT-085C-AL-TP-LL $\mid$ 50 $\Omega$ Tin-Plated Aluminum Outer Conductor

## **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 + 0.002/-0.0010		
	mm	2.1971 + 0.0508/-0.0254		
Center Conductor Diameter	in	0.0226		
	mm	0.5740		
Length (Maximum)	Feet	20		
	Meter	6.10		

MATERIALS	
Outer Conductor	Aluminum
Outer Conductor Plating	Tin
Dielectric	LD PTFE
Center Conductor	SPC
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*				
Outer Conductor Integrity Temp.	°C	225		
Operating Temperature (Max)	°C	225		
Inside Bend Radius (Minimum)	in	0.250		
	mm	6.350		
Weight	lbs / 100ft	0.69		
	kg / 100m	1.04		

<sup>\*</sup> 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		
	@ 0.5 GHz	13.4		
	@ 1.0 GHz	19		
	@ 5.0 GHz	43.1		
	@ 10.0 GHz	61.7		
Attenuation	@ 18.0 GHz	83.9		
(Db / 100 Ft Typical)	@ 26.5 GHz	102.9		
	@ 40.0 GHz	128.3		
	@ 50.0 GHz	144.7		
	@ 65.0 GHz	166.9		
	@ 90.0 GHz	N/A		
	@ 0.5 GHz	262.7		
	@ 1.0 GHz	185.2		
Power (Watts Cw @ 20°C, Maximum)	@ 5.0 GHz	81.9		
	@ 10.0 GHz	57.4		
	@ 18.0 GHz	42.4		
	@ 26.5 GHz	34.6		
	@ 40.0 GHz	27.9		
	@ 50.0 GHz	24.8		
	@ 65.0 GHz	21.5		
	@ 90.0 GHz	N/A		

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