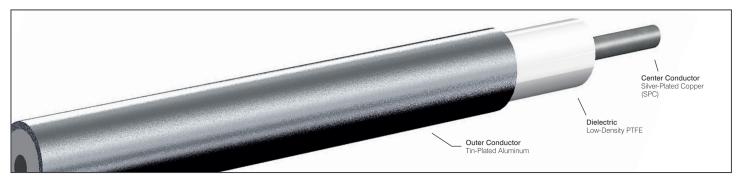
Low-Loss Semi-Rigid Coaxial Cables P/N UT-141C-AL-TP-LL \mid 50 Ω Tin-Plated Aluminum Outer Conductor

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	0.141 + 0.003/-0.002
Outer Conductor Diameter	mm	3.581 + 0.076/-0.051
Center Conductor Diameter	in	0.0403
Center Conductor Diameter	mm	1.0236
Langth (Maximum)	Feet	20
Length (Maximum)	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		
In side Dated Dadius (Mississuus)	in	0.500		
Inside Bend Radius (Minimum)	mm	12.700		
Weight	lbs / 100ft	1.83		
	kg / 100m	2.75		

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

Amphenol
Cable & Interconnect Technologies

ELECTRICAL CHARACTERISTICS*				
Characteristic Impedance	ohm	50		
O	pF / ft	26.5		
Capacitance	pF/m	86.8		
Corona Extinction Voltage	VRMS @ 60 Hz	2800		
Voltage Withstanding	VRMS @ 60 Hz	8400		
Higher Order Mode Frequency	GHz	37.0		
	@ 0.5 GHz	7.6		
	@ 1.0 GHz	10.8		
	@ 5.0 GHz	24.8		
	@ 10.0 GHz	35.7		
Attenuation	@ 18.0 GHz	49.1		
(Db / 100 Ft Typical)	@ 26.5 GHz	60.7		
	@ 40.0 GHz	N/A		
	@ 50.0 GHz	N/A		
	@ 65.0 GHz	N/A		
	@ 90.0 GHz	N/A		
Power (Watts Cw @ 20°C, Maximum)	@ 0.5 GHz	642.5		
	@ 1.0 GHz	452.1		
	@ 5.0 GHz	198.1		
	@ 10.0 GHz	138		
	@ 18.0 GHz	101.1		
	@ 26.5 GHz	82.2		
	@ 40.0 GHz	N/A		
	@ 50.0 GHz	N/A		
	@ 65.0 GHz	N/A		
	@ 90.0 GHz	N/A		

Learn More: Amphenol-CIT.com

+1 (800) 458-9960