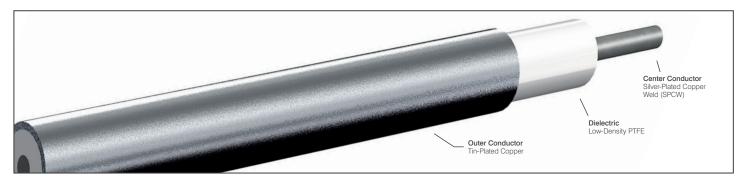


Low-Loss Semi-Rigid Coaxial Cables P/N UT-031-TP-LL \mid 50 Ω Tin-Plated Copper Outer Conductor

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	0.031 + 0.002/-0.001
	mm	0.787 + 0.051/-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	Tin
Dielectric	LD PTFE
Center Conductor	SPCW
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*				
Outer Conductor Integrity Temp.	°C	225		
Operating Temperature (Max)	°C	225		
Inside Bend Radius (Minimum)	in	0.125		
	mm	3.175		
Weight	lbs / 100ft	0.17		
	kg / 100m	0.26		

^{*} 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	600		
Voltage Withstanding	VRMS @ 60 Hz	1800		
Higher Order Mode Frequency	GHz	180.0		
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	33.6		
	@ 1.0 GHz	47.6		
	@ 5.0 GHz	107.1		
	@ 10.0 GHz	152.2		
	@ 18.0 GHz	205.4		
	@ 26.5 GHz	250.3		
	@ 40.0 GHz	309.3		
	@ 50.0 GHz	347.1		
	@ 65.0 GHz	397.7		
	@ 90.0 GHz	471.3		
Power (Watts Cw @ 20°C, Maximum)	@ 0.5 GHz	47.4		
	@ 1.0 GHz	33.5		
	@ 5.0 GHz	14.9		
	@ 10.0 GHz	10.5		
	@ 18.0 GHz	7.8		
	@ 26.5 GHz	6.4		
	@ 40.0 GHz	5.2		
	@ 50.0 GHz	4.6		
	@ 65.0 GHz	4		
	@ 90.0 GHz	3.4		



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