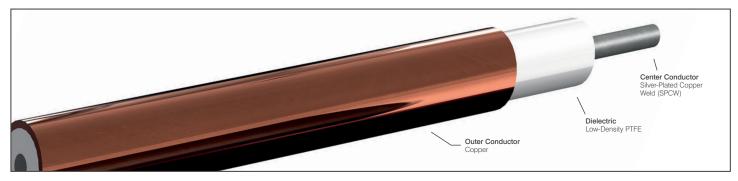
Low-Loss Semi-Rigid Coaxial Cables P/N UT-031-LL \mid 50 Ω Copper Outer Conductor

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	0.031 ± 0.001			
	mm	0.787 ± 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	None
Dielectric	LD PTFE
Center Conductor	SPCW
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*					
Outer Conductor Integrity Temp.	°C	250			
Operating Temperature (Max)	°C	250			
Inside Bend Radius (Minimum)	in	0.063			
	mm	1.600			
Weight	lbs / 100ft	0.17			
	kg / 100m	0.26			

^{*} Ap

Length (Maximum)	Feet	20	Higher Order Mode	GHz	180.0
	Meter	6.10	Frequency		
				@ 0.5 GHz	33.6
MATERIALS				@ 1.0 GHz	47.6
				@ 5.0 GHz	107.1
Outer Conductor	Copper		Attenuation	@ 10.0 GHz	152.2
Outer Conductor Plating	None			@ 18.0 GHz	205.4
Dielectric	LD PTFE		(Db / 100 Ft Typical)	@ 26.5 GHz	250.3
Center Conductor	SPCW			@ 40.0 GHz	309.3
RoHS Compliant	✓			@ 50.0 GHz	347.1
				@ 65.0 GHz	397.7
MECHANICAL CHARACTER	ISTICS*			@ 90.0 GHz	471.3
Outer Conductor Integrity Temp.	°C	250		@ 0.5 GHz	60.2
Operating Temperature (Max)	°C	250		@ 1.0 GHz	42.5
Inside Bend Radius (Minimum)	in	0.063		@ 5.0 GHz	18.9
	mm	1.600		@ 10.0 GHz	13.3
Weiaht	lbs / 100ft	0.17	Power (Watts Cw	@ 18.0 GHz	9.9
	kg / 100m	0.26	@ 20 °C, Maximum)	@ 26.5 GHz	8.1
Applicable at room temperature. Contact factory for performance over temperature range.				@ 40.0 GHz	6.6
				@ 50.0 GHz	5.9
				@ 65.0 GHz	5.1



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ELECTRICAL CHARACTERISTICS*

ohm

pF/ft

pF/m

VRMS @ 60 Hz

VRMS @ 60 Hz

50

26.5

86.8

600

1800

Characteristic Impedance

Corona Extinction Voltage

Voltage Withstanding

Capacitance

+1 (800) 458-9960

4.3

@ 90.0 GHz