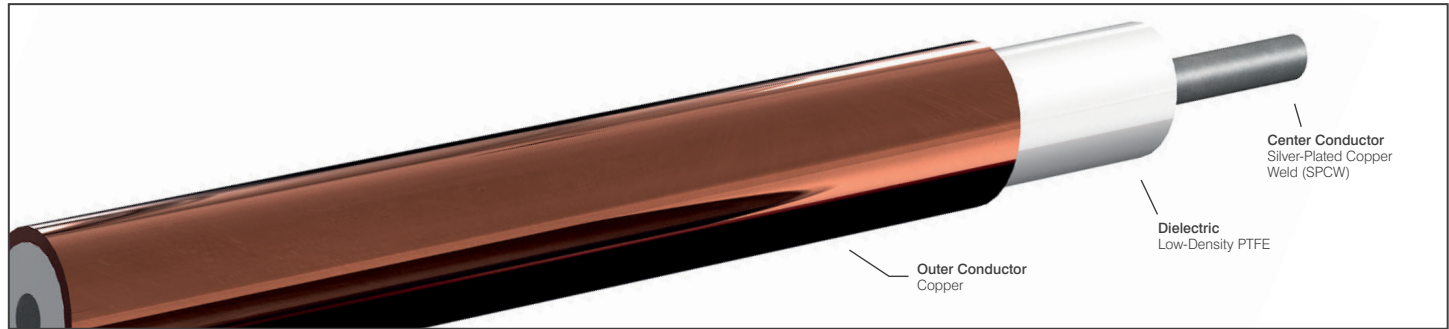


Low-Loss Semi-Rigid Coaxial Cables

P/N UT-070-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	0.070 ± 0.001
	mm	1.778 ± 0.025
Center Conductor Diameter	in	0.0201
	mm	0.5105
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	0.250
	mm	6.350
Weight	lbs / 100ft	0.75
	kg / 100m	1.13

* 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	1400
Voltage Withstanding	VRMS @ 60 Hz	4200
Higher Order Mode Frequency	GHz	73.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	13.8
	@ 1.0 GHz	19.6
	@ 5.0 GHz	44.5
	@ 10.0 GHz	63.6
	@ 18.0 GHz	86.4
	@ 26.5 GHz	106
	@ 40.0 GHz	132
	@ 50.0 GHz	148.9
Power (Watts Cw @ 20 °C, Maximum)	@ 65.0 GHz	171.7
	@ 90.0 GHz	N/A
	@ 0.5 GHz	265.5
	@ 1.0 GHz	187.2
	@ 5.0 GHz	82.8
	@ 10.0 GHz	58.1
	@ 18.0 GHz	42.9
	@ 26.5 GHz	35.1
@ 40.0 GHz	28.2	
@ 50.0 GHz	25.1	
@ 65.0 GHz	21.8	
@ 90.0 GHz	N/A	