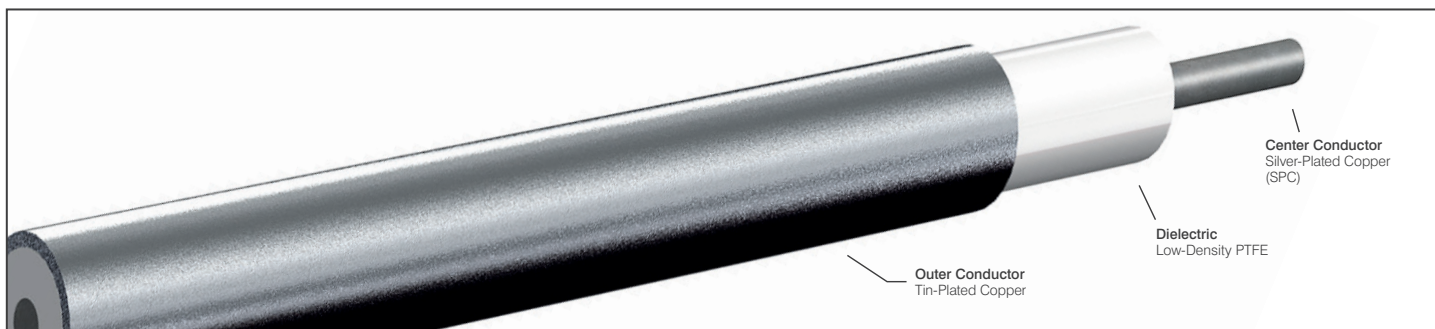


Low-Loss Semi-Rigid Coaxial Cables

P/N UT-085C-TP-LL | 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	0.0865 + 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	Copper
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	1.39
	kg / 100m	2.09

* 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
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	12.4
	@ 1.0 GHz	17.5
	@ 5.0 GHz	39.9
	@ 10.0 GHz	57.2
	@ 18.0 GHz	77.8
	@ 26.5 GHz	95.5
	@ 40.0 GHz	119.2
	@ 50.0 GHz	134.5
	@ 65.0 GHz	155.3
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	284
	@ 1.0 GHz	200.2
	@ 5.0 GHz	88.4
	@ 10.0 GHz	62
	@ 18.0 GHz	45.7
	@ 26.5 GHz	37.3
	@ 40.0 GHz	30
	@ 50.0 GHz	26.7
	@ 65.0 GHz	23.2
@ 90.0 GHz	N/A	