

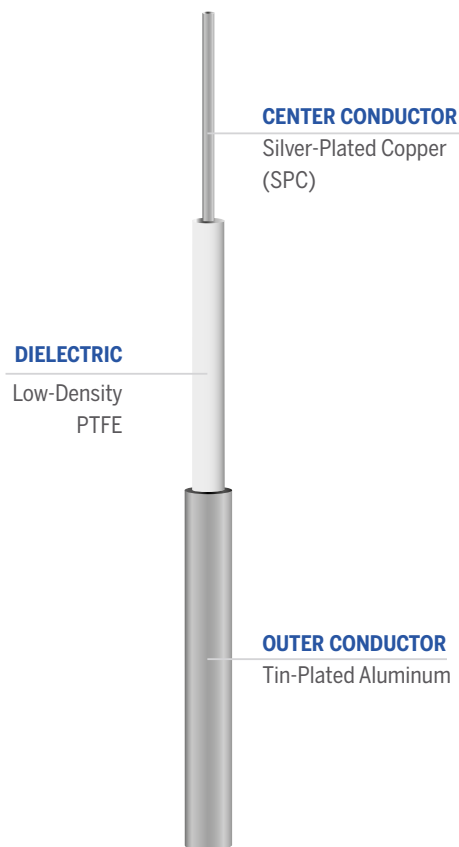
# UT-141C-AL-TP-LL

## Low-Loss Semi-Rigid Coaxial Cables



The low-loss semi-rigid cables from Micro-Coax provide lower attenuation, better phase stability with temperature, and a higher operating temperature when compared to traditional solid PTFE semi-rigid cables. This line of semi-rigid cables has 4 available outer conductor options: copper, tin-plated copper, aluminum, or tin-plated aluminum.

### Details and Materials



 **Impedance**  
50 Ohms
  **Operating Temperature**  
-55°C to +225°C
  **RoHS Compliant**

### Dimensions

Outer Conductor Diameter	in	0.141
	mm	3.581
Center Conductor Diameter	in	0.0403
	mm	1.0236
Length (Maximum)	ft	20
	m	6.10

### Mechanical Characteristics\*

Outer Conductor Integrity Temp.	°C	225
Inside Bend Radius (Minimum)	in	0.500
	mm	12.700
Weight	lbs/100ft	1.83
	kg/100m	2.75

### Electrical Characteristics\*

Capacitance	pF/ft	26.5
	pF/m	86.8
Corona Extinction Voltage	VRMS @60 Hz	2800
Voltage Withstanding	VRMS @60 Hz	8400
Higher Order Mode Frequency	GHz	37.0

### Power (@ 20 °C, Maximum)

GHz	Watts Cw
0.5	642.5
1.0	452.1
5.0	198.1
10.0	138
18.0	101.1
26.5	82.2
40.0	N/A
50.0	N/A
65.0	N/A
90.0	N/A

### Attenuation (Typical)

GHz	dB/100 ft
0.5	7.6
1.0	10.8
5.0	24.8
10.0	35.7
18.0	49.1
26.5	60.7
40.0	N/A
50.0	N/A
65.0	N/A
90.0	N/A

\* Applicable at room temperature. Contact for performance over temperature range.

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