

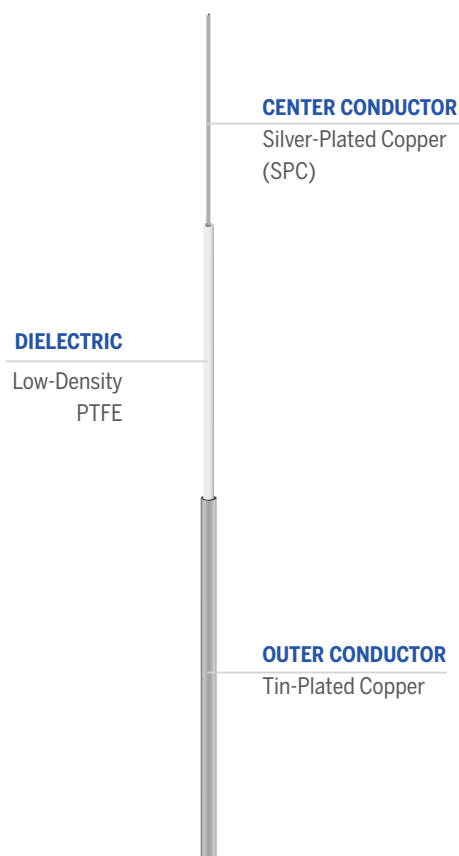
UT-047C-AL-TP-LL

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
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Dimensions

Outer Conductor Diameter	in	0.047
	mm	1.194
Center Conductor Diameter	in	0.0126
	mm	0.3200
Length (Maximum)	ft	20
	m	6.10

Mechanical Characteristics*

Outer Conductor Integrity Temp.	°C	225
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs/100ft	0.20
	kg/100m	0.30

Electrical Characteristics*

Capacitance	pF/ft	26.5
	pF/m	86.8
Corona Extinction Voltage	VRMS @60 Hz	900
Voltage Withstanding	VRMS @60 Hz	2700
Higher Order Mode Frequency	GHz	116.0

Power (@ 20 °C, Maximum)

GHz	Watts Cw
0.5	92.7
1.0	65.4
5.0	29.1
10.0	20.5
18.0	15.2
26.5	12.4
40.0	10.1
50.0	9
65.0	7.8
90.0	6.6

Attenuation (Typical)

GHz	dB/100 ft
0.5	23.7
1.0	33.6
5.0	75.9
10.0	108
18.0	146.1
26.5	178.4
40.0	220.9
50.0	248.3
65.0	285.1
90.0	338.7

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

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