

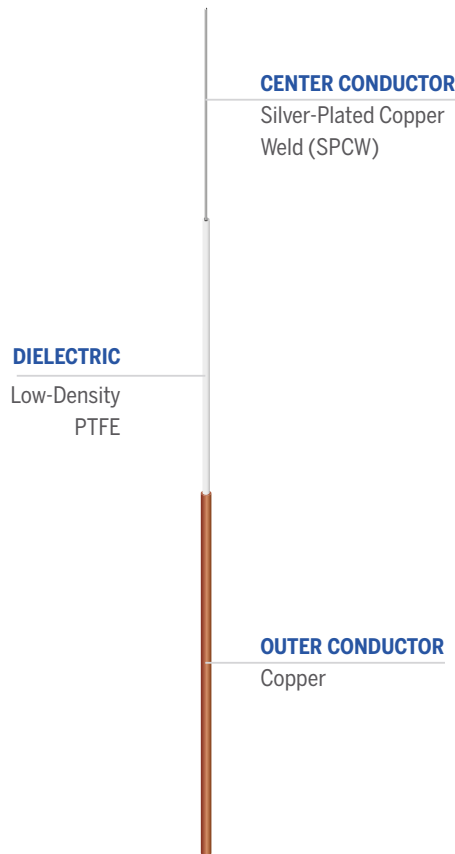
UT-031-LL

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



MICRO-COAX
AN AMPHENOL COMPANY

Impedance 50 Ohms |
 Operating Temperature -55°C to +250°C |
 RoHS Compliant

Dimensions

Outer Conductor Diameter	in	0.031
	mm	0.787
Center Conductor Diameter	in	0.0080
	mm	0.2032
Length (Maximum)	ft	20
	m	6.10

Mechanical Characteristics*

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

Electrical Characteristics*

Capacitance	pF/ft	26.5
	pF/m	86.8
Corona Extinction Voltage	VRMS @60 Hz	600
Voltage Withstanding	VRMS @60 Hz	1800
Higher Order Mode Frequency	GHz	180.0

Power (@ 20 °C, Maximum)

GHz	Watts Cw
0.5	60.2
1.0	42.5
5.0	18.9
10.0	13.3
18.0	9.9
26.5	8.1
40.0	6.6
50.0	5.9
65.0	5.1
90.0	4.3

Attenuation (Typical)

GHz	dB/100 ft
0.5	33.6
1.0	47.6
5.0	107.1
10.0	152.2
18.0	205.4
26.5	250.3
40.0	309.3
50.0	347.1
65.0	397.7
90.0	471.3

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