

UT-047-AL-TP

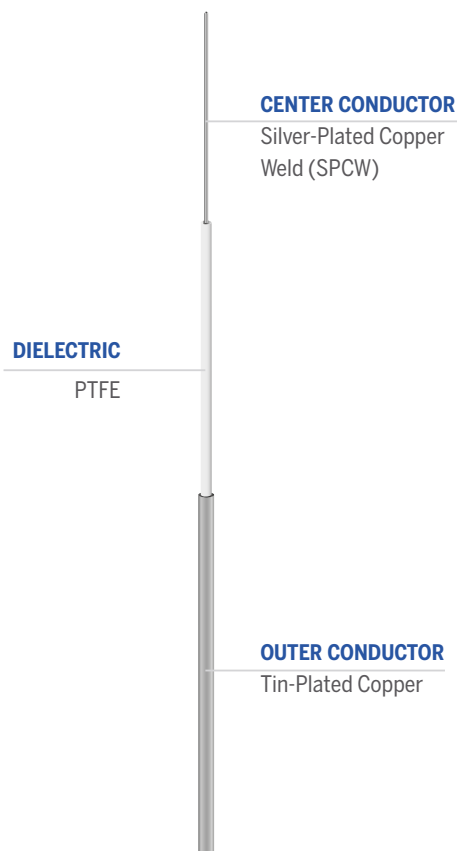
Semi-Rigid Coaxial Cables



Our 50 Ω aluminum semi-rigid cables are ideal for hand forming or where weight savings is a premium. Connectors can be easily soldered to the tin-plated aluminum outer conductor.

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

Details and Materials



Dimensions

Outer Conductor Diameter	in	0.047
	mm	1.194
Center Conductor Diameter	in	0.0113
	mm	0.2870
Length (Maximum)	ft	20
	m	6.10

Mechanical Characteristics*

Outer Conductor Integrity Temp.	°C	225
Inside Bend Radius (Minimum)	in	0.070
	mm	1.778
Weight	lbs/100ft	0.21
	kg/100m	0.32

Electrical Characteristics*

Capacitance	pF/ft	29.0
	pF/m	95.2
Corona Extinction Voltage	VRMS @60 Hz	1000
Voltage Withstanding	VRMS @60 Hz	3000
Higher Order Mode Frequency	GHz	109.0

Power (@ 20 °C, Maximum)

GHz	Watts Cw
0.5	85.4
1.0	60.1
5.0	26.3
10.0	18.3
18.0	13.4
26.5	10.9
40.0	8.7
50.0	7.7
65.0	6.7
90.0	5.5

Attenuation (Typical)

GHz	dB/100 ft
0.5	25.8
1.0	36.7
5.0	84.5
10.0	121.9
18.0	167.3
26.5	206.9
40.0	260.4
50.0	295.5
65.0	343.6
90.0	415.5

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

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