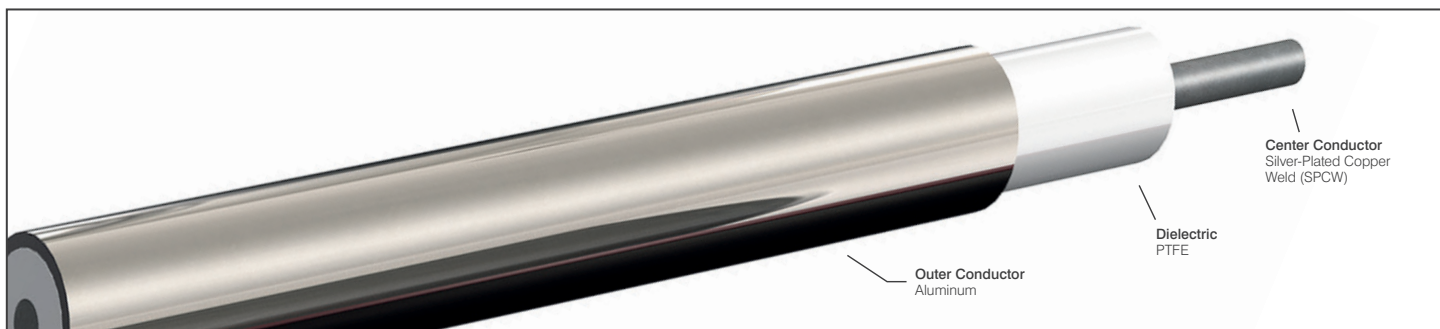


Semi-Rigid Coaxial Cables

P/N UT-085-AL | 50 Ω Aluminum Outer Conductor

INTRODUCTION



Our 50 Ω aluminum semi-rigid cables are ideal for hand forming or where weight savings is a premium.

DIMENSIONS

Outer Conductor Diameter	in	0.0865 ± 0.0010
	mm	2.1971 ± 0.0254
Center Conductor Diameter	in	0.0201
	mm	0.5105
Length (Maximum)	Feet	20
	Meter	6.10

MATERIALS

Outer Conductor	Aluminum
Outer Conductor Plating	None
Dielectric	PTFE
Center Conductor	SPCW
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*

Outer Conductor Integrity Temp.	°C	225
Operating Temperature (Max)	°C	225
Inside Bend Radius (Minimum)	in	0.070
	mm	1.778
Weight	lbs / 100ft	0.72
	kg / 100m	1.08

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

ELECTRICAL CHARACTERISTICS*

Characteristic Impedance	ohm	50
Capacitance	pF / ft	29.0
	pF / m	95.2
Corona Extinction Voltage	VRMS @ 60 Hz	1800
Voltage Withstanding	VRMS @ 60 Hz	5400
Higher Order Mode Frequency	GHz	61.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	14.3
	@ 1.0 GHz	21
	@ 5.0 GHz	47.6
	@ 10.0 GHz	72
	@ 18.0 GHz	100.3
	@ 26.5 GHz	125.6
	@ 40.0 GHz	160.5
	@ 50.0 GHz	183.9
	@ 65.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	231.8
	@ 1.0 GHz	162.5
	@ 5.0 GHz	70.1
	@ 10.0 GHz	48.3
	@ 18.0 GHz	35
	@ 26.5 GHz	28.1
	@ 40.0 GHz	22.2
	@ 50.0 GHz	19.5
	@ 65.0 GHz	N/A
@ 90.0 GHz	N/A	