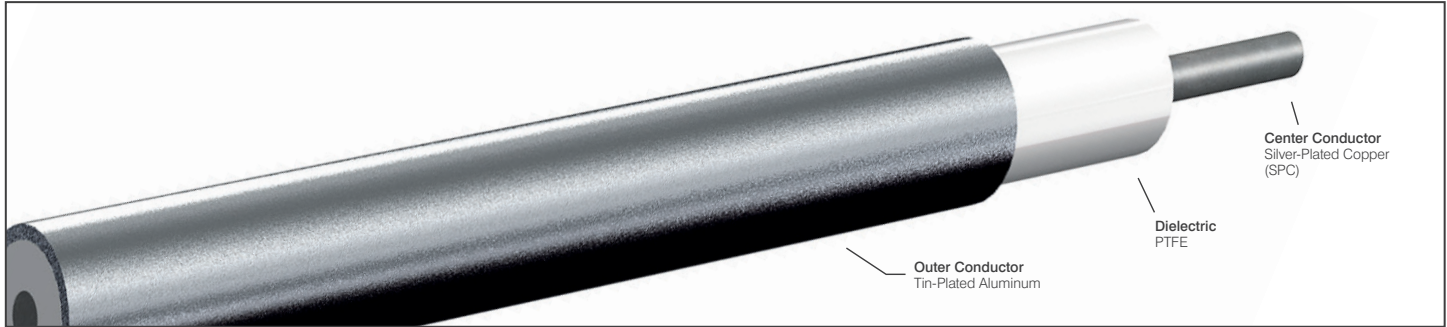


## Semi-Rigid Coaxial Cables

P/N UT-250C-AL-TP | 50 Ω Tin-Plated Aluminum Outer Conductor

### INTRODUCTION



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.

### DIMENSIONS

Outer Conductor Diameter	in	0.250 + 0.003 /-0.002
	mm	6.350 + 0.076 /-0.051
Center Conductor Diameter	in	0.0641
	mm	1.6281
Length (Maximum)	Feet	20
	Meter	6.10

### MATERIALS

Outer Conductor	Aluminum
Outer Conductor Plating	Tin
Dielectric	PTFE
Center Conductor	SPC
RoHS Compliant	✓

### MECHANICAL CHARACTERISTICS\*

Outer Conductor Integrity Temp.	°C	225
Operating Temperature (Max)	°C	225
Inside Bend Radius (Minimum)	in	0.250
	mm	6.350
Weight	lbs / 100ft	6.18
	kg / 100m	9.28

\* 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	5600
Voltage Withstanding	VRMS @ 60 Hz	16800
Higher Order Mode Frequency	GHz	19.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	4.9
	@ 1.0 GHz	7.2
	@ 5.0 GHz	18.4
	@ 10.0 GHz	28.4
	@ 18.0 GHz	42
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	1395.1
	@ 1.0 GHz	961.1
	@ 5.0 GHz	387.6
	@ 10.0 GHz	255.3
	@ 18.0 GHz	176.2
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 65.0 GHz	N/A
	@ 90.0 GHz	N/A