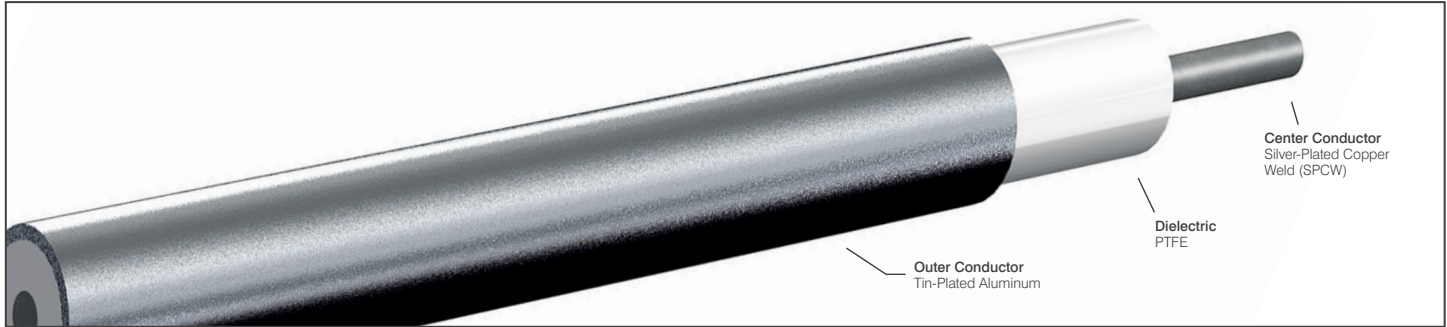


Semi-Rigid Coaxial Cables

P/N UT-141-SA-AL-TP-M17 | 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	0.141 + 0.002 /-0.001
	mm	3.581 + 0.051 /-0.025
Center Conductor Diameter	in	0.0362
	mm	0.9195
Length (Maximum)	Feet	20
	Meter	6.10

MATERIALS

Outer Conductor	Aluminum
Outer Conductor Plating	Tin
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	0.125
	mm	3.175
Weight	lbs / 100ft	1.93
	kg / 100m	2.90

* 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	3200
Voltage Withstanding	VRMS @ 60 Hz	9600
Higher Order Mode Frequency	GHz	34.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	7.9
	@ 1.0 GHz	11.5
	@ 5.0 GHz	28.7
	@ 10.0 GHz	43.3
	@ 18.0 GHz	63
	@ 26.5 GHz	80.3
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	571.7
	@ 1.0 GHz	398.2
	@ 5.0 GHz	167.5
	@ 10.0 GHz	113.4
	@ 18.0 GHz	80.5
	@ 26.5 GHz	63.8
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 65.0 GHz	N/A
	@ 90.0 GHz	N/A