

Semi-Rigid Coaxial Cables P/N UT-141A-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	0.141 ± 0.001		
	mm	3.581 ± 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	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	0.125		
	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		
	@ 0.5 GHz	7.9		
	@ 1.0 GHz	11.5		
	@ 5.0 GHz	28.7		
	@ 10.0 GHz	43.3		
Attenuation	@ 18.0 GHz	63		
(Db / 100 Ft Typical)	@ 26.5 GHz	80.3		
	@ 40.0 GHz	N/A		
	@ 50.0 GHz	N/A		
	@ 65.0 GHz	N/A		
	@ 90.0 GHz	N/A		
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	557.7		
	@ 1.0 GHz	388.5		
	@ 5.0 GHz	163.4		
	@ 10.0 GHz	110.6		
	@ 18.0 GHz	78.5		
	@ 26.5 GHz	62.2		
	@ 40.0 GHz	N/A		
	@ 50.0 GHz	N/A		
	@ 65.0 GHz	N/A		
	@ 90.0 GHz	N/A		



See our complete line of Semi-Rigid Coaxial Cables at: CarlislelT.com/products/wire-cable/semi-rigid-coaxial-cables +1 (800) 458-9960 Sales@CarlislelT.com