Semi-Rigid Coaxial Cables

P/N UT-047-SP | 50 Ω Silver-Plated Copper Outer Conductor

INTRODUCTION



All of our 50 Ω copper semi-rigid cables feature low attenuation and VSWR covering the entire microwave spectrum. With numerous connector options available off-the-shelf, this family of cables is one of the most versatile available today. They meet the demands of package density and provide total shielding for elimination of signal loss and noise.

DIMENSIONS				
Outer Conductor Diameter	in	0.047 + 0.002/-0.001		
	mm	1.194 ± 0.051/-0.025		
Center Conductor Diameter	in	0.0113		
	mm	0.2870		
Length (Maximum)	Feet	20		
	Meter	6.10		

MATERIALS	
Outer Conductor	Copper
Outer Conductor Plating	Silver
Dielectric	PTFE
Center Conductor	SPCW
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*				
Outer Conductor Integrity Temp.	°C	175		
Operating Temperature (Max)	°C	150		
Inside Bend Radius (Minimum)	in	0.050		
	mm	1.270		
Weight	lbs / 100ft	0.40		
	kg / 100m	0.60		

^{*} 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	1000		
Voltage Withstanding	VRMS @ 60 Hz	3000		
Higher Order Mode Frequency	GHz	109.0		
	@ 0.5 GHz	24		
	@ 1.0 GHz	34.2		
	@ 5.0 GHz	78.8		
	@ 10.0 GHz	113.8		
Attenuation	@ 18.0 GHz	156.5		
(Db / 100 Ft Typical)	@ 26.5 GHz	193.8		
	@ 40.0 GHz	244.2		
	@ 50.0 GHz	277.5		
	@ 65.0 GHz	323		
	@ 90.0 GHz	391.3		
Power (Watts Cw @ 20°C, Maximum)	@ 0.5 GHz	62.2		
	@ 1.0 GHz	43.8		
	@ 5.0 GHz	19.1		
	@ 10.0 GHz	13.3		
	@ 18.0 GHz	9.7		
	@ 26.5 GHz	7.9		
	@ 40.0 GHz	6.3		
	@ 50.0 GHz	5.5		
	@ 65.0 GHz	4.8		
	@ 90.0 GHz	4		

Learn More: Amphenol-CIT.com

+1 (800) 458-9960