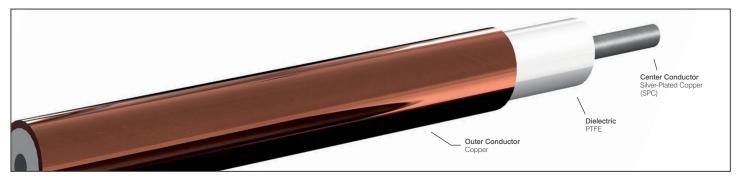
Semi-Rigid Coaxial Cables

P/N UT-047C | 50 Ω 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 ± 0.001	
	mm	1.194 ± 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	None
Dielectric	PTFE
Center Conductor	SPC
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*			
Outer Conductor Integrity Temp.	°C	175	
Operating Temperature (Max)	°C	150	
Inside Bend Radius (Minimum)	in	0.125	
	mm	3.175	
Weight	lbs / 100ft	0.40	
	kg / 100m	0.60	

nce over temperature range.

* Applicable at roc	om temperature. Conta	act factory for performand
Amp	ohen	OCIT
Cable & In	terconnect	Technologies

ELECTRICAL CHARACTERISTICS*				
Characteristic Impedance	ohm	50		
0 "	pF / ft	29.0		
Capacitance	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	80.5		
	@ 1.0 GHz	56.6		
	@ 5.0 GHz	24.7		
	@ 10.0 GHz	17.2		
	@ 18.0 GHz	12.6		
	@ 26.5 GHz	10.2		
	@ 40.0 GHz	8.1		
	@ 50.0 GHz	7.2		
	@ 65.0 GHz	6.2		
	@ 90.0 GHz	5.1		

Learn More: Amphenol-CIT.com

+1 (800) 458-9960