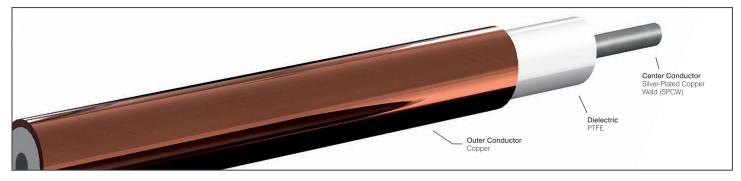
Semi-Rigid Coaxial Cables

P/N UT-034C | 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	0.034 ± 0.001
Outer Conductor Diameter	mm	0.864 ± 0.025
Center Conductor Diameter	in	0.0080
Center Conductor Diameter	mm	0.2032
Langth (Maximum)	Feet	15
Length (Maximum)	Meter	4.57

MATERIALS	
Outer Conductor	Copper
Outer Conductor Plating	None
Dielectric	PTFE
Center Conductor	SPCW
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*				
Outer Conductor Integrity Temp.	°C	150		
Operating Temperature (Max)	°C	125		
Inside Bend Radius (Minimum)	in	0.063		
	mm	1.600		
Weight	lbs / 100ft	0.22		
	kg / 100m	0.33		

^{*} Applicable at room temperature. Contact factory for performance over temperature range.

Amphenol CII
Cable & Interconnect Technologies

ELECTRICAL CHARACTERISTICS*				
Characteristic Impedance	ohm	50		
Capacitance	pF / ft	29.0		
	pF/m	95.2		
Corona Extinction Voltage	VRMS @ 60 Hz	750		
Voltage Withstanding	VRMS @ 60 Hz	2100		
Higher Order Mode Frequency	GHz	155.0		
	@ 0.5 GHz	34		
	@ 1.0 GHz	48.3		
	@ 5.0 GHz	110.4		
	@ 10.0 GHz	158.5		
Attenuation	@ 18.0 GHz	216.5		
(Db / 100 Ft Typical)	@ 26.5 GHz	266.6		
	@ 40.0 GHz	333.7		
	@ 50.0 GHz	377.5		
	@ 65.0 GHz	437		
	@ 90.0 GHz	525.5		
Power (Watts Cw @ 20°C, Maximum)	@ 0.5 GHz	35.7		
	@ 1.0 GHz	25.2		
	@ 5.0 GHz	11.1		
	@ 10.0 GHz	7.7		
	@ 18.0 GHz	5.7		
	@ 26.5 GHz	4.6		
	@ 40.0 GHz	3.7		
	@ 50.0 GHz	3.3		
	@ 65.0 GHz	2.8		
	@ 90.0 GHz	2.4		

Learn More: Amphenol-CIT.com

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