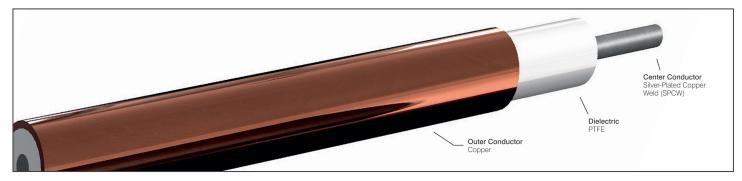
## **Semi-Rigid Coaxial Cables**

P/N UT-141-SA-M17 | 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	0.141 ± 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	Copper
Outer Conductor Plating	None
Dielectric	PTFE
Center Conductor	SPCW
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*			
Outer Conductor Integrity Temp.	°C	175	
Operating Temperature (Max)	°C	125	
Inside Bend Radius (Minimum)	in	0.075	
	mm	1.905	
Weight	lbs / 100ft	3.29	
	kg / 100m	4.94	

nce over temperature range.

* Applicable a	t room temperature.	Contact factory for perforn	nan
Am	phe	nolCi	154
Cable &	Interconne	ct Technologie	S

ELECTRICAL CHARACTERISTICS*				
Characteristic Impedance	ohm	50		
0	pF / ft	29.0		
Capacitance	pF/m	95.2		
Corona Extinction Voltage	VRMS @ 60 Hz	1900		
Voltage Withstanding	VRMS @ 60 Hz	9600		
Higher Order Mode Frequency	GHz	34.0		
	@ 0.5 GHz	7.6		
	@ 1.0 GHz	11.3		
	@ 5.0 GHz	27.6		
	@ 10.0 GHz	41.6		
Attenuation	@ 18.0 GHz	59.6		
(Db / 100 Ft Typical)	@ 26.5 GHz	76.2		
	@ 40.0 GHz	N/A		
	@ 50.0 GHz	N/A		
	@ 65.0 GHz	N/A		
	@ 90.0 GHz	N/A		
	@ 0.5 GHz	600.4		
	@ 1.0 GHz	450		
	@ 5.0 GHz	180		
	@ 10.0 GHz	120		
Power (Watts Cw	@ 18.0 GHz	83		
@ 20 °C, Maximum)	@ 26.5 GHz	65.6		
	@ 40.0 GHz	N/A		
	@ 50.0 GHz	N/A		
	@ 65.0 GHz	N/A		
	@ 90.0 GHz	N/A		

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