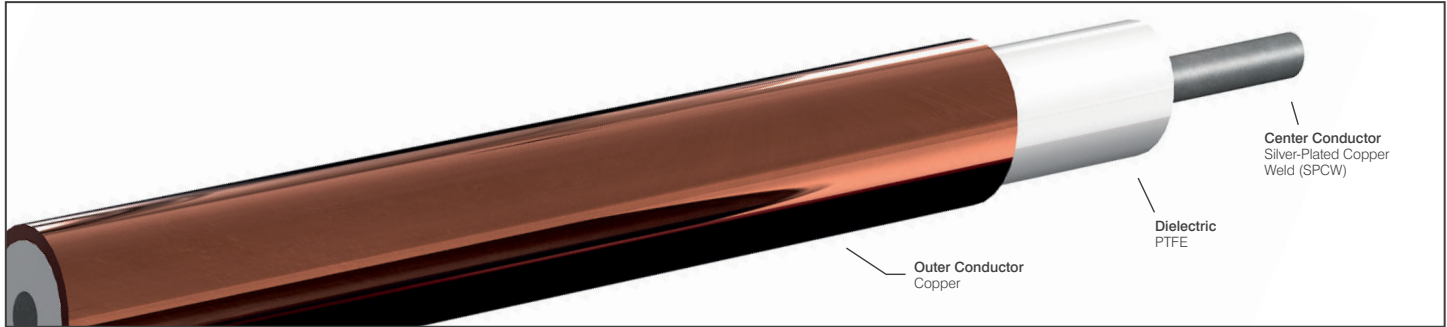


## Semi-Rigid Coaxial Cables

P/N UT-013 | 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	0.013 ± 0.001
	mm	0.330 ± 1.125
Center Conductor Diameter	in	0.0031
	mm	0.0787
Length (Maximum)	Feet	1.0
	Meter	3.05

### 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	0.050
	mm	1.270
Weight	lbs / 100ft	0.03
	kg / 100m	0.05

\* 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	150
Voltage Withstanding	VRMS @ 60 Hz	900
Higher Order Mode Frequency	GHz	402.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	87.8
	@ 1.0 GHz	124.4
	@ 5.0 GHz	280.5
	@ 10.0 GHz	399.1
	@ 18.0 GHz	539.3
	@ 26.5 GHz	658.2
	@ 40.0 GHz	814.9
	@ 50.0 GHz	915.5
Power (Watts Cw @ 20 °C, Maximum)	@ 65.0 GHz	1050.4
	@ 90.0 GHz	1247.3
	@ 0.5 GHz	6.4
	@ 1.0 GHz	4.5
	@ 5.0 GHz	2
	@ 10.0 GHz	1.4
	@ 18.0 GHz	1
	@ 26.5 GHz	0.9
	@ 40.0 GHz	0.7
	@ 50.0 GHz	0.6
@ 65.0 GHz	0.5	
@ 90.0 GHz	0.5	