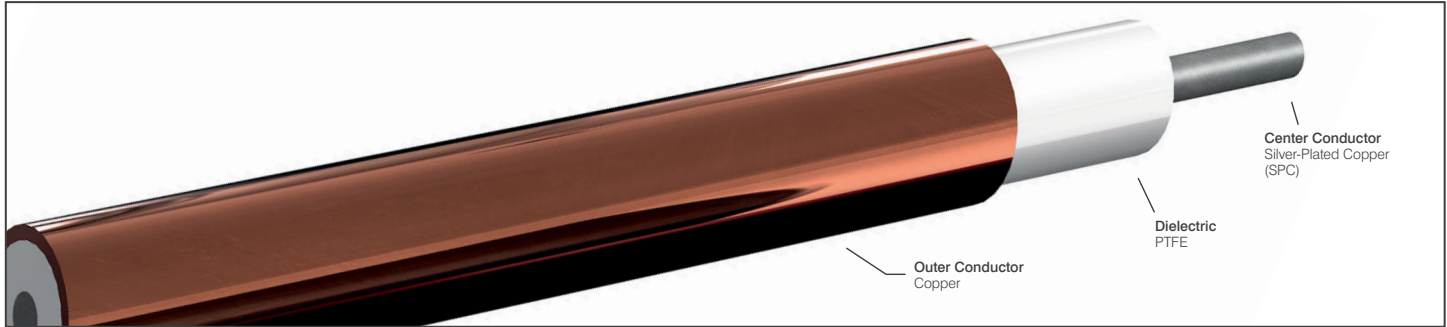


## Semi-Rigid Coaxial Cables

P/N UT-141C | 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	SPC
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	3.32
	kg / 100m	4.98

\* 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	1900
Voltage Withstanding	VRMS @ 60 Hz	9600
Higher Order Mode Frequency	GHz	34.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	7.6
	@ 1.0 GHz	11.3
	@ 5.0 GHz	27.6
	@ 10.0 GHz	41.6
	@ 18.0 GHz	59.6
	@ 26.5 GHz	76.2
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	600.4
	@ 1.0 GHz	450
	@ 5.0 GHz	180
	@ 10.0 GHz	120
	@ 18.0 GHz	83
	@ 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