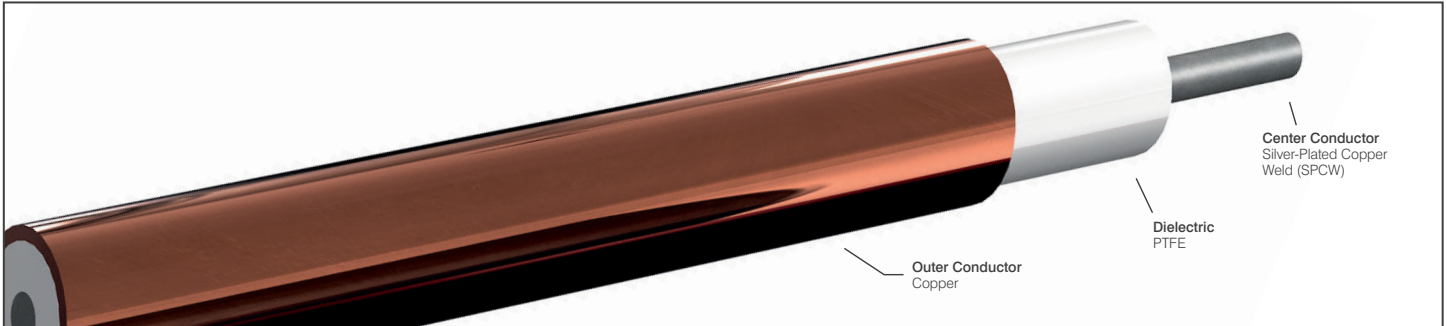


# Semi-Rigid Coaxial Cables

P/N UT-020 | 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	0.023 ± 0.0010
	mm	0.5842 ± 0.0254
Center Conductor Diameter	in	0.0050
	mm	0.1270
Length (Maximum)	Feet	10
	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	0.10
	kg / 100m	0.15

\* 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	500
Voltage Withstanding	VRMS @ 60 Hz	1500
Higher Order Mode Frequency	GHz	239.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	51.6
	@ 1.0 GHz	73.3
	@ 5.0 GHz	166.1
	@ 10.0 GHz	237.4
	@ 18.0 GHz	322.3
	@ 26.5 GHz	394.9
	@ 40.0 GHz	491.4
	@ 50.0 GHz	553.8
	@ 65.0 GHz	638.1
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	17.2
	@ 1.0 GHz	12.1
	@ 5.0 GHz	5.4
	@ 10.0 GHz	3.8
	@ 18.0 GHz	2.8
	@ 26.5 GHz	2.3
	@ 40.0 GHz	1.8
	@ 50.0 GHz	1.6
	@ 65.0 GHz	1.4
@ 90.0 GHz	1.2	