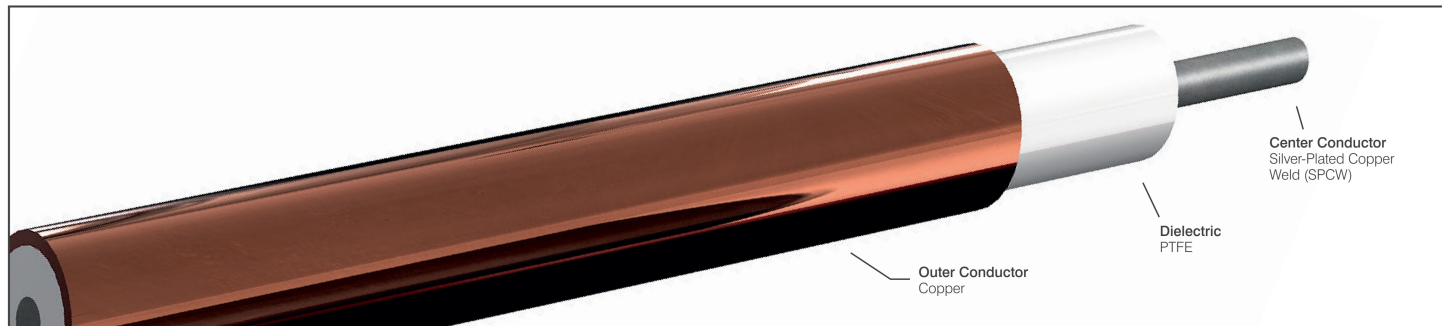


Semi-Rigid Coaxial Cables

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	