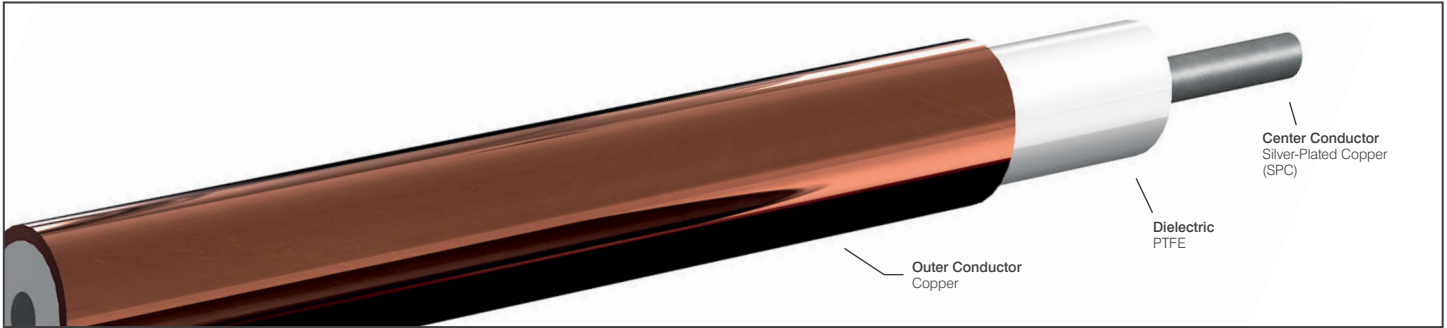


Semi-Rigid Coaxial Cables

P/N UT-070C | 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	0.070 ± 0.001
	mm	1.778 ± 0.025
Center Conductor Diameter	in	0.0179
	mm	0.4547
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	135
Operating Temperature (Max)	°C	100
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	0.80
	kg / 100m	1.20

* 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	1200
Voltage Withstanding	VRMS @ 60 Hz	4800
Higher Order Mode Frequency	GHz	68.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	15.2
	@ 1.0 GHz	21.7
	@ 5.0 GHz	50.9
	@ 10.0 GHz	74.4
	@ 18.0 GHz	103.7
	@ 26.5 GHz	129.7
	@ 40.0 GHz	165.5
	@ 50.0 GHz	189.4
	@ 65.0 GHz	222.6
Power (Watts Cw @ 20 °C, Maximum)	@ 90.0 GHz	N/A
	@ 0.5 GHz	124
	@ 1.0 GHz	86.9
	@ 5.0 GHz	37.4
	@ 10.0 GHz	25.7
	@ 18.0 GHz	18.6
	@ 26.5 GHz	14.9
	@ 40.0 GHz	11.8
	@ 50.0 GHz	10.3
@ 65.0 GHz	8.8	
@ 90.0 GHz	N/A	