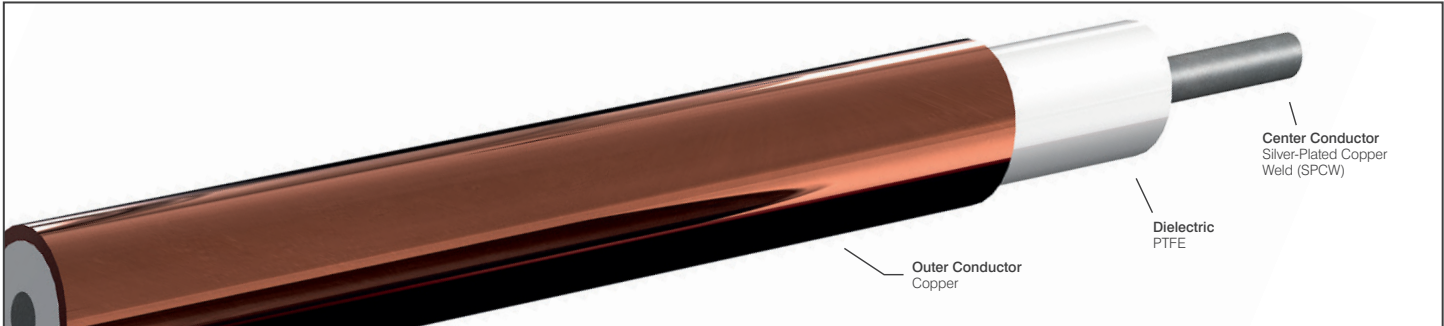


# Semi-Rigid Coaxial Cables

P/N UT-047-70 | 70 Ω Copper Outer Conductor

## INTRODUCTION



With impedances from 5 to 100 Ω and diameters from 0.020 to 0.250", our odd-impedance semi-rigid cables are the right solution for any impedance-matching requirement.

### DIMENSIONS

Outer Conductor Diameter	in	0.047 ± 0.001
	mm	1.194 ± 0.025
Center Conductor Diameter	in	0.0071
	mm	0.1803
Length (Maximum)	Feet	20
	Meter	6.10

### MATERIALS

Outer Conductor	Copper
Outer Conductor Plating	None
Dielectric	PTFE
Center Conductor	SPCW
RoHS Compliant	✓

### MECHANICAL CHARACTERISTICS\*

Outer Conductor Integrity Temp.	°C	175
Operating Temperature (Max)	°C	150
Inside Bend Radius (Minimum)	in	0.050
	mm	1.270
Weight	lbs / 100ft	0.37
	kg / 100m	0.56

\* Applicable at room temperature. Contact factory for performance over temperature range.

### ELECTRICAL CHARACTERISTICS\*

Characteristic Impedance	ohm	70
Capacitance	pF / ft	20.7
	pF / m	68.0
Corona Extinction Voltage	VRMS @ 60 Hz	1200
Voltage Withstanding	VRMS @ 60 Hz	3600
Higher Order Mode Frequency	GHz	117.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	24.6
	@ 1.0 GHz	35
	@ 5.0 GHz	80.5
	@ 10.0 GHz	116.2
	@ 18.0 GHz	159.8
	@ 26.5 GHz	197.7
	@ 40.0 GHz	249.1
	@ 50.0 GHz	282.9
	@ 90.0 GHz	398.6
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	78.1
	@ 1.0 GHz	55
	@ 5.0 GHz	24
	@ 10.0 GHz	16.7
	@ 18.0 GHz	12.2
	@ 26.5 GHz	9.9
	@ 40.0 GHz	7.9
	@ 50.0 GHz	7
	@ 90.0 GHz	5