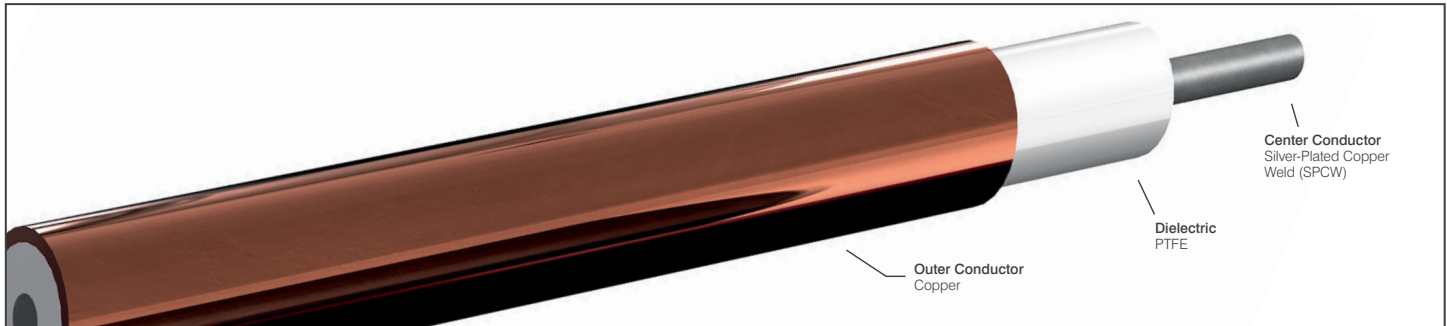


## Semi-Rigid Coaxial Cables

P/N UT-085-93 | 93 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	0.085 ± 0.001
	mm	2.159 ± 0.025
Center Conductor Diameter	in	0.0080
	mm	0.2032
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	150
Operating Temperature (Max)	°C	125
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	1.03
	kg / 100m	1.55

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

### ELECTRICAL CHARACTERISTICS\*

Characteristic Impedance	ohm	93
Capacitance	pF / ft	15.6
	pF / m	51.2
Corona Extinction Voltage	VRMS @ 60 Hz	2500
Voltage Withstanding	VRMS @ 60 Hz	7500
Higher Order Mode Frequency	GHz	65.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	15.6
	@ 1.0 GHz	22.3
	@ 5.0 GHz	52.2
	@ 10.0 GHz	76.3
	@ 18.0 GHz	106.1
	@ 26.5 GHz	132.6
	@ 40.0 GHz	169.2
	@ 50.0 GHz	193.5
Power (Watts Cw @ 20 °C, Maximum)	@ 65.0 GHz	227.3
	@ 90.0 GHz	N/A
	@ 0.5 GHz	159.4
	@ 1.0 GHz	111.8
	@ 5.0 GHz	48.2
	@ 10.0 GHz	33.2
	@ 18.0 GHz	24
	@ 26.5 GHz	19.3
	@ 40.0 GHz	15.3
	@ 50.0 GHz	13.4
@ 65.0 GHz	11.5	
@ 90.0 GHz	N/A	