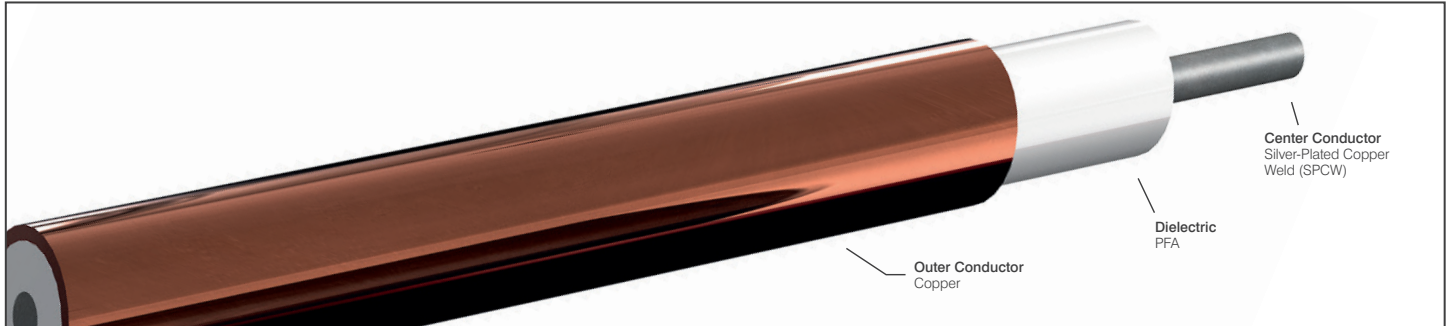


# Semi-Rigid Coaxial Cables

P/N UT-044-12 | 12 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	0.044 ± 0.002
	mm	1.118 ± 0.051
Center Conductor Diameter	in	0.0226
	mm	0.5740
Length (Maximum)	Feet	15
	Meter	4.57

### MATERIALS

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

### MECHANICAL CHARACTERISTICS\*

Outer Conductor Integrity Temp.	°C	175
Operating Temperature (Max)	°C	150
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	0.51
	kg / 100m	0.77

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

### ELECTRICAL CHARACTERISTICS\*

Characteristic Impedance	ohm	12
Capacitance	pF / ft	120.9
	pF / m	396.0
Corona Extinction Voltage	VRMS @ 60 Hz	300
Voltage Withstanding	VRMS @ 60 Hz	900
Higher Order Mode Frequency	GHz	100.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	66.9
	@ 1.0 GHz	94.9
	@ 5.0 GHz	215
	@ 10.0 GHz	307.1
	@ 18.0 GHz	416.7
	@ 26.5 GHz	510.5
	@ 40.0 GHz	634.9
	@ 50.0 GHz	715.3
	@ 90.0 GHz	983.6
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	27.6
	@ 1.0 GHz	19.5
	@ 5.0 GHz	8.6
	@ 10.0 GHz	6
	@ 18.0 GHz	4.5
	@ 26.5 GHz	3.7
	@ 40.0 GHz	2.9
	@ 50.0 GHz	2.6
	@ 90.0 GHz	1.9