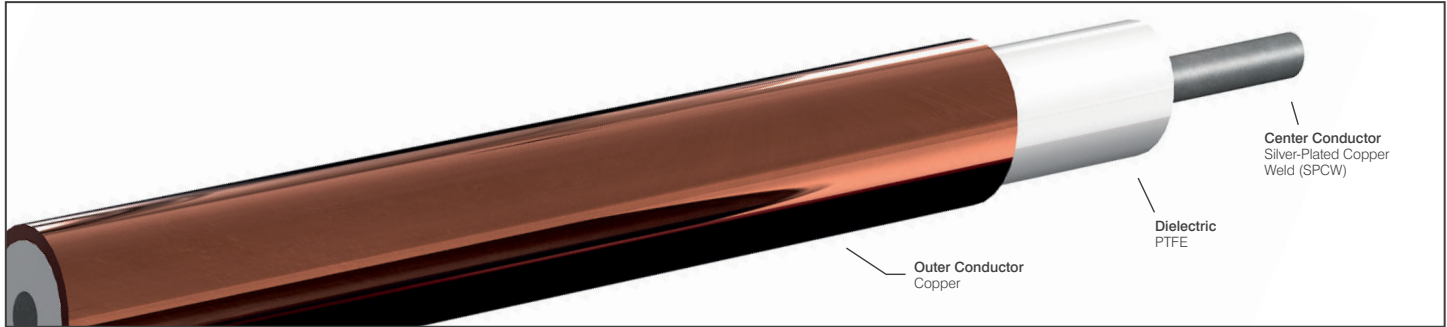


Semi-Rigid Coaxial Cables

P/N UT-141-100 | 100 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	0.141 ± 0.001
	mm	3.581 ± 0.025
Center Conductor Diameter	in	0.0100
	mm	0.2540
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	0.250
	mm	6.350
Weight	lbs / 100ft	3.03
	kg / 100m	4.55

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

ELECTRICAL CHARACTERISTICS*

Characteristic Impedance	ohm	100
Capacitance	pF / ft	14.5
	pF / m	47.6
Corona Extinction Voltage	VRMS @ 60 Hz	4200
Voltage Withstanding	VRMS @ 60 Hz	12600
Higher Order Mode Frequency	GHz	41.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	11.1
	@ 1.0 GHz	15.9
	@ 5.0 GHz	37.9
	@ 10.0 GHz	56
	@ 18.0 GHz	79
	@ 26.5 GHz	99.7
	@ 40.0 GHz	128.7
	@ 50.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	332.3
	@ 1.0 GHz	232.2
	@ 5.0 GHz	98.9
	@ 10.0 GHz	67.5
	@ 18.0 GHz	48.4
	@ 26.5 GHz	38.6
	@ 40.0 GHz	30.2
	@ 50.0 GHz	N/A
	@ 65.0 GHz	N/A
	@ 90.0 GHz	N/A