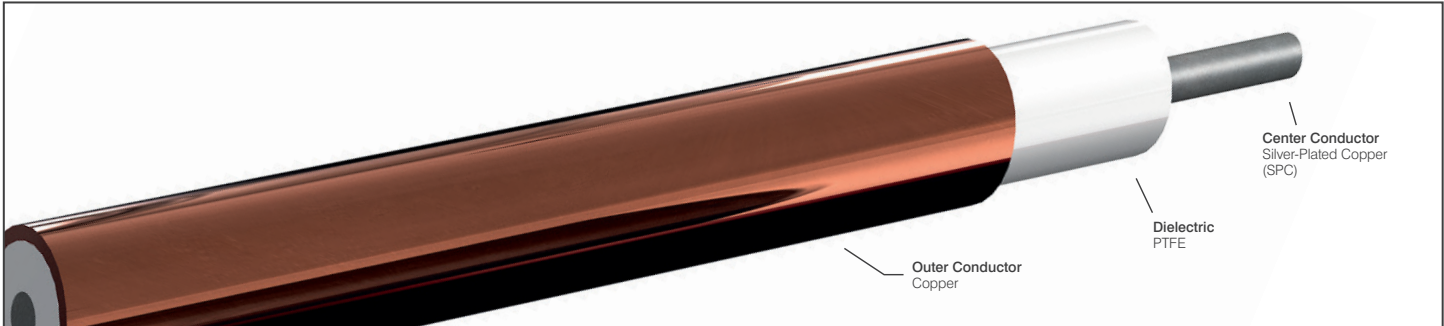


# Semi-Rigid Coaxial Cables

P/N UT-090C-25 | 25 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	0.090 ± 0.001
	mm	2.286 ± 0.025
Center Conductor Diameter	in	0.0403
	mm	1.0236
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	175
Operating Temperature (Max)	°C	125
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	1.69
	kg / 100m	2.54

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

ELECTRICAL CHARACTERISTICS*		
Characteristic Impedance	ohm	25
Capacitance	pF / ft	58.0
	pF / m	190.0
Corona Extinction Voltage	VRMS @ 60 Hz	1300
Voltage Withstanding	VRMS @ 60 Hz	3900
Higher Order Mode Frequency	GHz	46.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	16.1
	@ 1.0 GHz	23
	@ 5.0 GHz	53.8
	@ 10.0 GHz	78.5
	@ 18.0 GHz	109.2
	@ 26.5 GHz	136.3
	@ 40.0 GHz	173.7
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	205.1
	@ 1.0 GHz	143.8
	@ 5.0 GHz	62.1
	@ 10.0 GHz	42.8
	@ 18.0 GHz	31
	@ 26.5 GHz	25
	@ 40.0 GHz	19.7
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A