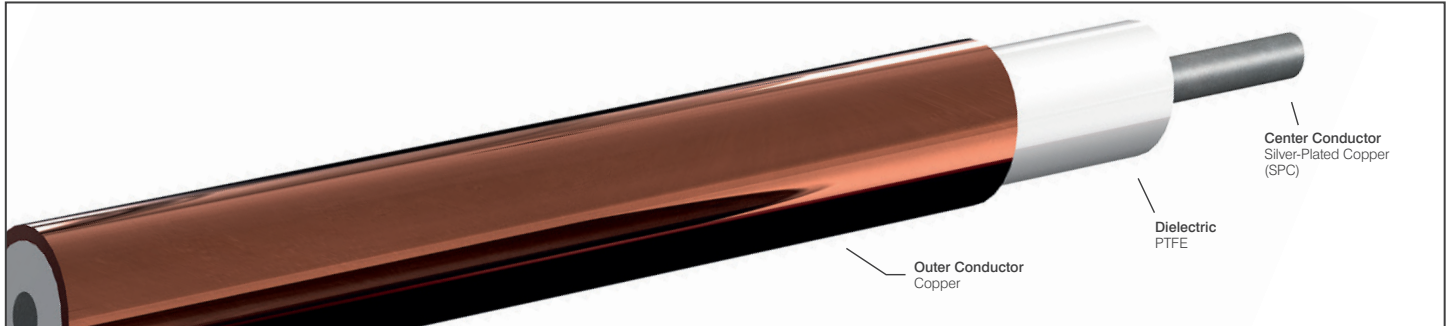


# Semi-Rigid Coaxial Cables

P/N UT-038C-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	0.038 ± 0.002
	mm	0.965 ± 0.051
Center Conductor Diameter	in	0.0159
	mm	0.4039
Length (Maximum)	Feet	15
	Meter	4.57

### 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	150
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	0.33
	kg / 100m	0.50

\* 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	500
Voltage Withstanding	VRMS @ 60 Hz	1500
Higher Order Mode Frequency	GHz	120.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	42.6
	@ 1.0 GHz	60.5
	@ 5.0 GHz	137.6
	@ 10.0 GHz	197.1
	@ 18.0 GHz	268.2
	@ 26.5 GHz	329.3
	@ 40.0 GHz	410.7
	@ 50.0 GHz	463.6
	@ 65.0 GHz	535.2
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	38.4
	@ 1.0 GHz	27.1
	@ 5.0 GHz	12
	@ 10.0 GHz	8.4
	@ 18.0 GHz	6.2
	@ 26.5 GHz	5
	@ 40.0 GHz	4
	@ 50.0 GHz	3.6
	@ 65.0 GHz	3.1
@ 90.0 GHz	2.6	