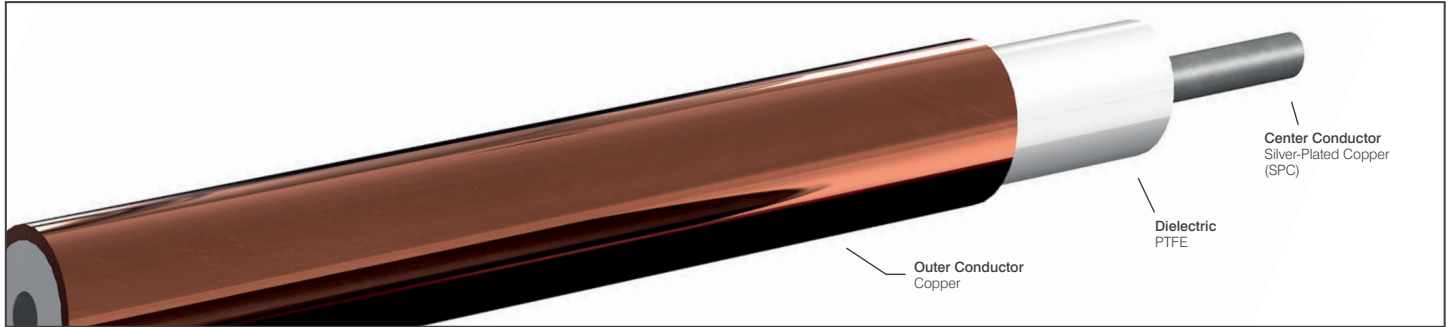


Semi-Rigid Coaxial Cables

P/N UT-047C-35 | 35 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	0.047 ± 0.001
	mm	1.194 ± 0.025
Center Conductor Diameter	in	0.0159
	mm	0.4039
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	150
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	0.43
	kg / 100m	0.65

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

ELECTRICAL CHARACTERISTICS*

Characteristic Impedance	ohm	35
Capacitance	pF / ft	41.5
	pF / m	136.0
Corona Extinction Voltage	VRMS @ 60 Hz	800
Voltage Withstanding	VRMS @ 60 Hz	2400
Higher Order Mode Frequency	GHz	100.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	26.2
	@ 1.0 GHz	37.3
	@ 5.0 GHz	85.7
	@ 10.0 GHz	123.6
	@ 18.0 GHz	169.7
	@ 26.5 GHz	209.8
	@ 40.0 GHz	263.9
	@ 50.0 GHz	299.4
Power (Watts Cw @ 20 °C, Maximum)	@ 65.0 GHz	348.1
	@ 90.0 GHz	420.8
	@ 0.5 GHz	74.1
	@ 1.0 GHz	52.1
	@ 5.0 GHz	22.8
	@ 10.0 GHz	15.9
	@ 18.0 GHz	11.6
	@ 26.5 GHz	9.4
	@ 40.0 GHz	7.5
	@ 50.0 GHz	6.7
@ 65.0 GHz	5.8	
@ 90.0 GHz	4.8	