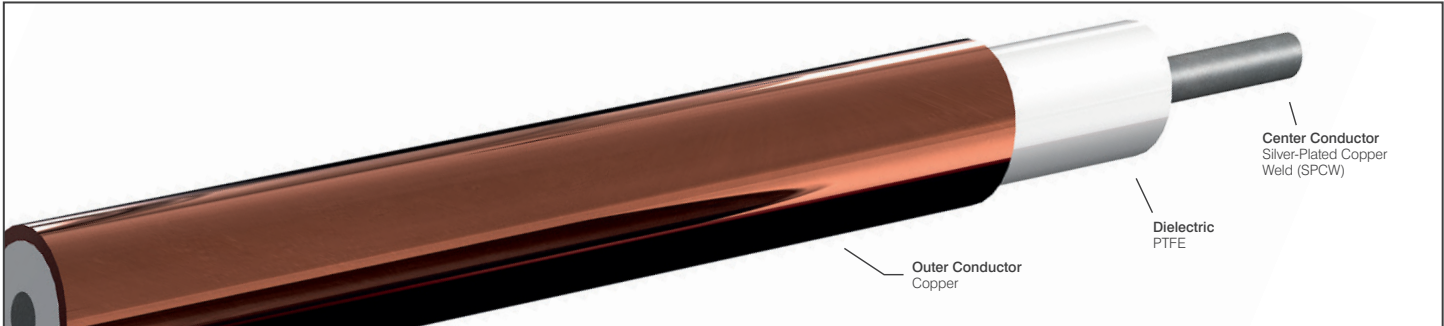


Semi-Rigid Coaxial Cables

P/N UT-141-70 | 70 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	0.0201
	mm	0.5105
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	0.188
	mm	4.775
Weight	lbs / 100ft	3.87
	kg / 100m	5.81

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

ELECTRICAL CHARACTERISTICS*

Characteristic Impedance	ohm	70
Capacitance	pF / ft	20.7
	pF / m	68.0
Corona Extinction Voltage	VRMS @ 60 Hz	3200
Voltage Withstanding	VRMS @ 60 Hz	9600
Higher Order Mode Frequency	GHz	43.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	9.2
	@ 1.0 GHz	13.3
	@ 5.0 GHz	32
	@ 10.0 GHz	47.7
	@ 18.0 GHz	67.8
	@ 26.5 GHz	86.2
	@ 40.0 GHz	112.1
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	409.5
	@ 1.0 GHz	285.4
	@ 5.0 GHz	120.2
	@ 10.0 GHz	81.5
	@ 18.0 GHz	57.9
	@ 26.5 GHz	46
	@ 40.0 GHz	35.7
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A