

Semi-Rigid Coaxial Cables

P/N UT-034-SP | 50 Ω Silver-Plated Copper Outer Conductor

INTRODUCTION



All of our 50 Ω copper semi-rigid cables feature low attenuation and VSWR covering the entire microwave spectrum. With numerous connector options available off-the-shelf, this family of cables is one of the most versatile available today. They meet the demands of package density and provide total shielding for elimination of signal loss and noise.

DIMENSIONS

Outer Conductor Diameter	in	0.034 ± 0.002/-0.001
	mm	0.864 ± 0.051/-0.025
Center Conductor Diameter	in	0.0080
	mm	0.2032
Length (Maximum)	Feet	15
	Meter	4.57

MATERIALS

Outer Conductor	Copper
Outer Conductor Plating	Silver
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	0.050
	mm	1.270
Weight	lbs / 100ft	0.22
	kg / 100m	0.33

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

ELECTRICAL CHARACTERISTICS*

Characteristic Impedance	ohm	50
Capacitance	pF / ft	29.0
	pF / m	95.2
Corona Extinction Voltage	VRMS @ 60 Hz	750
Voltage Withstanding	VRMS @ 60 Hz	2100
Higher Order Mode Frequency	GHz	155.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	34
	@ 1.0 GHz	48.3
	@ 5.0 GHz	110.4
	@ 10.0 GHz	158.5
	@ 18.0 GHz	216.5
	@ 26.5 GHz	266.6
	@ 40.0 GHz	333.7
	@ 50.0 GHz	377.5
	@ 65.0 GHz	437
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	28.5
	@ 1.0 GHz	20
	@ 5.0 GHz	8.8
	@ 10.0 GHz	6.2
	@ 18.0 GHz	4.5
	@ 26.5 GHz	3.7
	@ 40.0 GHz	3
	@ 50.0 GHz	2.6
	@ 65.0 GHz	2.3
@ 90.0 GHz	1.9	