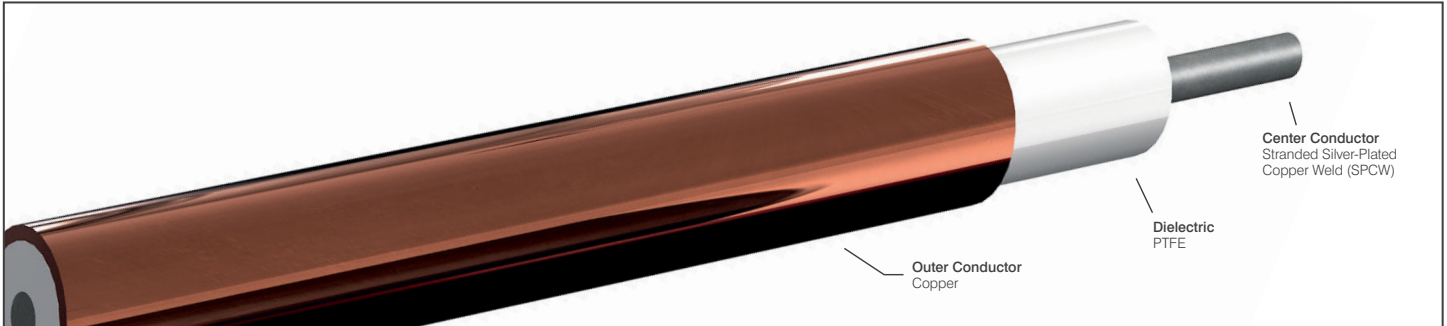


Semi-Rigid Coaxial Cables

P/N UT-056-STR | 50 Ω 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	0.056 ± 0.002
	mm	1.422 ± 0.051
Center Conductor Diameter	in	7 x 0.0312
	mm	7 x 0.7925
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	200
Operating Temperature (Max)	°C	175
Inside Bend Radius (Minimum)	in	0.063
	mm	1.600
Weight	lbs / 100ft	0.72
	kg / 100m	1.08

* 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	1000
Voltage Withstanding	VRMS @ 60 Hz	3000
Higher Order Mode Frequency	GHz	111.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	24.7
	@ 1.0 GHz	35.2
	@ 5.0 GHz	81
	@ 10.0 GHz	117
	@ 18.0 GHz	160.8
	@ 26.5 GHz	199
	@ 40.0 GHz	250.6
	@ 50.0 GHz	284.6
	@ 65.0 GHz	331.2
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	107.3
	@ 1.0 GHz	75.4
	@ 5.0 GHz	33
	@ 10.0 GHz	23
	@ 18.0 GHz	16.8
	@ 26.5 GHz	13.6
	@ 40.0 GHz	10.9
	@ 50.0 GHz	9.6
	@ 65.0 GHz	8.3
@ 90.0 GHz	6.9	