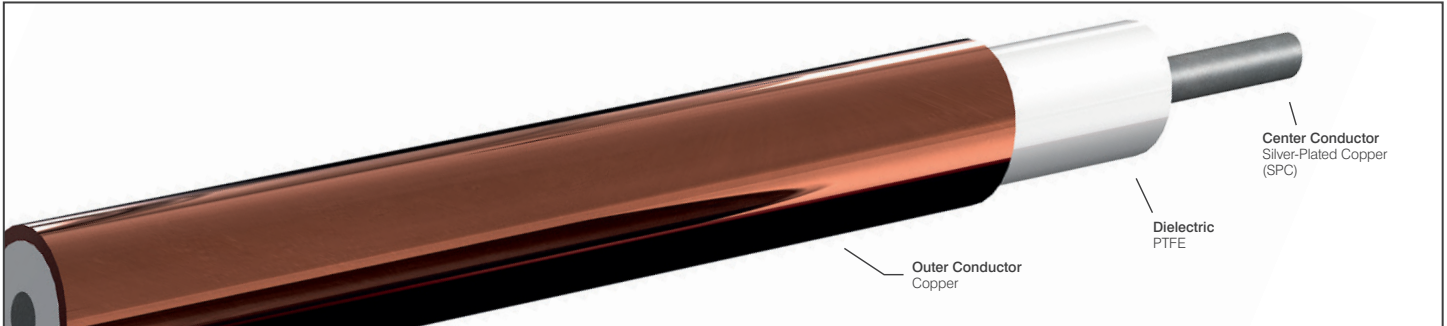


Semi-Rigid Coaxial Cables

P/N UT-250A-M17 | 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	0.250 ± 0.001
	mm	6.350 ± 0.025
Center Conductor Diameter	in	0.0641
	mm	1.6281
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	150
Operating Temperature (Max)	°C	100
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	10.38
	kg / 100m	15.58

* 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	3000
Voltage Withstanding	VRMS @ 60 Hz	16800
Higher Order Mode Frequency	GHz	19.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	4.3
	@ 1.0 GHz	6.7
	@ 5.0 GHz	17.4
	@ 10.0 GHz	27
	@ 18.0 GHz	40
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	1780
	@ 1.0 GHz	914.8
	@ 5.0 GHz	364.5
	@ 10.0 GHz	238.3
	@ 18.0 GHz	163.2
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A