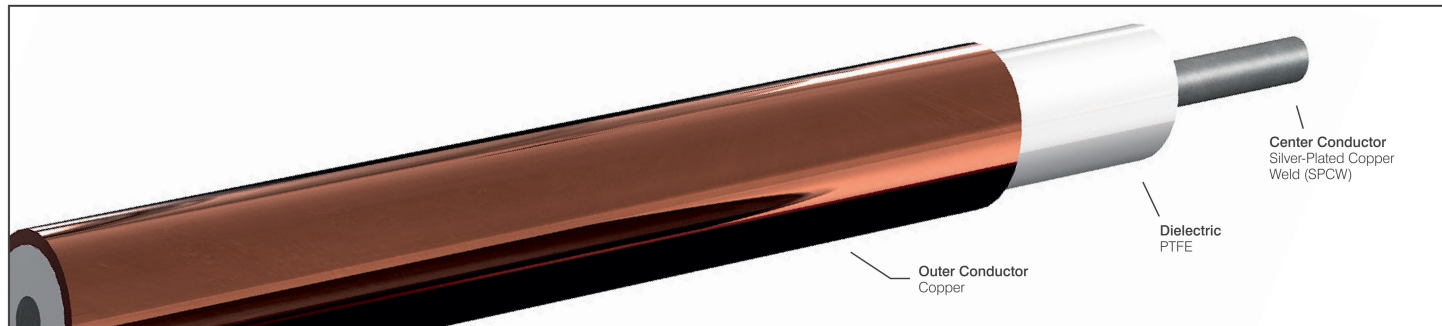


## Semi-Rigid Coaxial Cables

P/N UT-085-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	0.0865 ± 0.0010
	mm	2.1971 ± 0.0254
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	175
Operating Temperature (Max)	°C	125
Inside Bend Radius (Minimum)	in	0.050
	mm	1.270
Weight	lbs / 100ft	1.42
	kg / 100m	2.13

\* 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	1500
Voltage Withstanding	VRMS @ 60 Hz	5400
Higher Order Mode Frequency	GHz	61.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	13.6
	@ 1.0 GHz	19.5
	@ 5.0 GHz	46
	@ 10.0 GHz	67.4
	@ 18.0 GHz	94.3
	@ 26.5 GHz	118.3
	@ 40.0 GHz	151.5
	@ 50.0 GHz	173.8
Power (Watts Cw @ 20 °C, Maximum)	@ 65.0 GHz	N/A
	@ 90.0 GHz	N/A
	@ 0.5 GHz	232
	@ 1.0 GHz	162.5
	@ 5.0 GHz	69.8
	@ 10.0 GHz	47.9
	@ 18.0 GHz	34.6
	@ 26.5 GHz	27.7
	@ 40.0 GHz	21.8
	@ 50.0 GHz	19.1
@ 65.0 GHz	N/A	
@ 90.0 GHz	N/A	