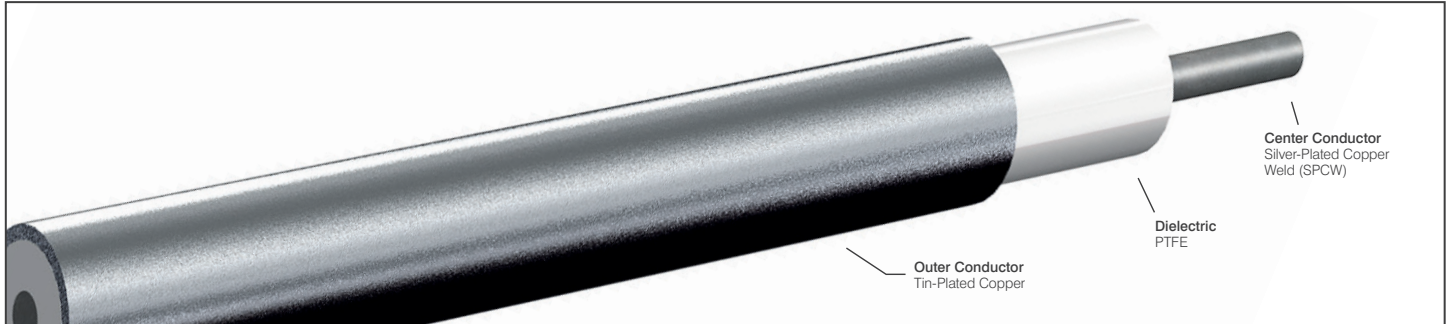


## Semi-Rigid Coaxial Cables

P/N UT-085-H-TP-M17 | 50 Ω Tin-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	0.087 + 0.002 /-0.001
	mm	2.197 + 0.051 /-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	Tin
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	0.125
	mm	3.175
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	190.3
	@ 1.0 GHz	133.2
	@ 5.0 GHz	57.2
	@ 10.0 GHz	39.3
	@ 18.0 GHz	28.3
	@ 26.5 GHz	22.7
	@ 40.0 GHz	17.9
	@ 50.0 GHz	15.7
@ 65.0 GHz	N/A	
@ 90.0 GHz	N/A	