

UT-141-SA-TP-M17-00005

Standard copper 50 ohm 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		UNITS	UT-141-SA-TP-M17
Outer Conductor Diameter	In		0.141 ±0.002/-0.001
	mm		3.58 ±0.05/-0.025
Dielectric Diameter	In		0.1175 ± 0.0010
	mm		2.97 ± 0.025
Center Conductor Diameter	In		0.0362
	mm		0.919
length (maximum)	Feet		20
	Meters		6.1
MATERIALS			
Outer Conductor			Copper
Outer Conductor Plating			Tin
Dielectric			PTFE
Center Conductor			SPCW
RoHS Compliant			YES
Mechanical Characteristics			
Outer Conductor Integrity Temp.	°C		175
Operating Temperature (Max)	°C		125
Inside Bend Radius (Minimum)	In		0.075
	mm		1.915
Weight	lbs / 100ft		3.29
	kg / 100m		0.148

ELECTRICAL CHARACTERISTICS		
Characteristic Impedance	ohm	50
	pF/ft	29.0
Capacitance	pF/m	95.2
	VRMS @ 60 Hz	1900
Corona Extinction Voltage	VRMS @ 60 Hz	9600
Voltage Withstanding	GHz	34.0
Higher Order Mode Frequency	0.5 GHz	7.6
	1.0 GHz	11.3
	5.0 GHz	27.6
	10.0 GHz	41.6
	18.0 GHz	59.6
	26.5 GHz	76.2
	40.0 GHz	N/A
	50.0 GHz	N/A
	65.0 GHz	N/A
	90.0 GHz	N/A
Attenuation (Db / 100 Ft Typical)	0.5 GHz	483.5
	1.0 GHz	336.2
	5.0 GHz	140.4
	10.0 GHz	94.6
	18.0 GHz	66.8
	26.5 GHz	52.7
	40.0 GHz	N/A
	50.0 GHz	N/A
	65.0 GHz	N/A
	90.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	0.5 GHz	483.5
	1.0 GHz	336.2
	5.0 GHz	140.4
	10.0 GHz	94.6
	18.0 GHz	66.8
	26.5 GHz	52.7
	40.0 GHz	N/A
	50.0 GHz	N/A
	65.0 GHz	N/A
	90.0 GHz	N/A