

## STANDARD SEMI-RIGID COAXIAL CABLE\*

Micro-Coax Part Number	UT 141-A		UT 141-A-TP		UT 141-A-SP		UT 141-75	
<b>DIMENSIONS</b>								
Outer Conductor Diameter (in) (mm)	0.141 ± 0.001 3.58 ± 0.0254		0.141 +0.002/-0.001 3.58 +0.0508/-0.0254		0.141 +0.002/-0.001 3.58 +0.0508/-0.0254		0.141 ± 0.001 3.58 ± 0.0254	
Dielectric Diameter (in) (mm)	0.1175 ± 0.001 2.98 ± 0.0254		0.1175 ± 0.001 2.98 ± 0.0254		0.1175 ± 0.001 2.98 ± 0.0254		0.1175 ± 0.001 2.98 ± 0.0254	
Center Conductor Diameter (in) (mm)	0.0359 +0.0010/-0.0004 0.91 +0.0254/-0.0102		0.0359 +0.0010/-0.0004 0.91 +0.0254/-0.0102		0.0359 +0.0010/-0.0004 0.91 +0.0254/-0.0102		0.0201 ± 0.0005 0.51 ± 0.0127	
Length Range (ft) (m)	1 - 20 0.31 - 6.10		1 - 20 0.31 - 6.10		1 - 20 0.31 - 6.10		1 - 20 0.31 - 6.10	
<b>MATERIALS</b>								
Outer Conductor	COPPER		TIN/COPPER		SILVER/COPPER		COPPER	
Dielectric	PTFE		PTFE		PTFE		PTFE	
Center Conductor	SPCW		SPCW		SPCW		SPCW	
<b>ELECTRICAL PROPERTIES</b>								
Characteristic Impedance (ohms)	50 ± 1.0		50 ± 1.0		50 ± 1.0		75 ± 1.0	
Capacitance (Nominal) (pF/ft) (pF/m)	29.0 95.1		29.0 95.1		29.0 95.1		19.3 63.5	
Corona Extinction Voltage (VRMS @ 60 Hz)	1900		1900		1900		2000	
Voltage Withstanding (VRMS @ 60 Hz)	5000		5000		5000		5000	
Moding Frequency (GHz)	34		34		34		38	
Typical Attenuation (dB/100 ft) /Average Power (Watts CW) @ 20°C and Sea Level	ATTEN.	POWER	ATTEN.	POWER	ATTEN.	POWER	ATTEN.	POWER
	0.5 GHz	600.5	7.8	483.5	7.8	436.5	8.4	549.0
	1.0 GHz	417.5	11.3	336.2	11.3	303.4	12.1	382.2
	5.0 GHz	174.4	27.7	140.4	27.7	126.7	29.4	160.6
	10.0 GHz	117.5	41.5	94.6	41.5	85.5	44.1	108.6
	20.0 GHz	77.9	63.6	62.7	63.6	56.6	67.2	72.4
<b>MECHANICAL PROPERTIES</b>								
Outer Conductor Integrity Temp. (°C)	175		175		175		175	
Max. Operating Temp. (°C)	125		125		125		125	
Min. Inside Bend Radius (in) (mm)	0.075 1.91		0.075 1.91		0.075 1.91		0.075 1.91	
Weight (lbs/100ft) (kg/100m)	3.14 4.67		3.14 4.67		3.14 4.67		2.97 4.42	

\* Standard inventory item.