

# MICRO-COAX®

Leading the way in transmission line solutions.

UT-141-100/CA100141

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## Semi-Rigid Coaxial Cable

### MECHANICAL CHARACTERISTICS

Outer Conductor Diameter, inch (mm)	0.141+/-0.001 (3.581+/-0.0254)
Dielectric Diameter, inch (mm)	0.1175 (2.985)
Center Conductor Diameter, inch (mm)	0.010+/-0.0001 (0.254+/-0.00254)
Maximum Length, feet (meters)	20 (6.1)
Minimum Inside Bend Radius, inch (mm)	0.25 (6.35)
Weight, pounds/100 ft. (kg/100 meters)	2.89 (4.3)

### ELECTRICAL CHARACTERISTICS

Impedance, ohms	100+/-4.0		
Frequency Range GHz	DC-41		
Velocity of Propagation %	70		
Capacitance, pF/ft. (pF/meter)	14.5 (47.6)		
Typical Insertion Loss, dB/ft. (dB/meter) and Average Power Handling, Watts CW at 20 degrees Celsius and Sea level	<b>Frequency</b>	<b>Insertion Loss</b>	<b>Power</b>
	0.5 GHz	0.11 (0.36)	332.2
	1.0 GHz	0.16 (0.52)	232.1
	5.0 GHz	0.38 (1.24)	98.9
	10.0 GHz	0.56 (1.84)	67.5
	20.0 GHz	0.84 (2.76)	45.5
Corona Extinction Voltage, VRMS @ 60 Hz	1500		
Voltage Withstand, VRMS @ 60 Hz	5000		

### ENVIRONMENTAL CHARACTERISTICS

Outer Conductor Integrity Temperature, Deg Celsius	175
Maximum Operating Temperature, Deg Celsius	125

### MATERIALS

Outer Conductor	Copper
Dielectric	PTFE
Center Conductor	SPCW

### CUTAWAY

