

**MICRO-COAX®**

Leading the way in transmission line solutions.

UT-141-75

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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)	0.0201+/-0.0005 (0.511+/-0.0127)
Maximum Length, feet (meters)	20 (6.1)
Minimum Inside Bend Radius, inch (mm)	0.188 (4.78)
Weight, pounds/100 ft. (kg/100 meters)	2.98 (4.43)

**ELECTRICAL CHARACTERISTICS**

Impedance, ohms	75+/-1.0		
Frequency Range GHz	DC-38		
Velocity of Propagation %	70		
Capacitance, pF/ft. (pF/meter)	19.3		
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	0.08 (0.28)	549
	1.0 GHz	0.12 (0.40)	382.2
	5.0 GHz	0.29 (0.96)	160.6
	10.0 GHz	0.44 (1.45)	108.6
	20.0 GHz	0.67 (2.20)	72.4
Corona Extinction Voltage, VRMS @ 60 Hz	2000		
Voltage Withstand, VRMS @ 60 Hz	5000		

**ENVIRONMENTAL CHARACTERISTICS**

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

**MATERIALS**

Outer Conductor	Copper
Dielectric	PTFE
Center Conductor	SPCW

**CUTAWAY**