

MICRO-COAX®

Leading the way in transmission line solutions.

UT-085-75

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Semi-Rigid Coaxial Cable
MECHANICAL CHARACTERISTICS

Outer Conductor Diameter, inch (mm)	0.085+/-0.001 (2.159+/-0.0254)
Dielectric Diameter, inch (mm)	0.067 (1.702)
Center Conductor Diameter, inch (mm)	0.0113+/-0.005 (0.287+/-0.0127)
Maximum Length, feet (meters)	20 (6.1)
Minimum Inside Bend Radius, inch (mm)	0.125 (3.175)
Weight, pounds/100 ft. (kg/100 meters)	1.2 (1.79)

ELECTRICAL CHARACTERISTICS

Impedance, ohms	75+/-1.0		
Frequency Range GHz	DC-67		
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	Frequency	Insertion Loss	Power
	0.5 GHz	0.15 (0.48)	173.3
	1.0 GHz	0.21 (0.68)	121.4
	5.0 GHz	0.49 (1.60)	52.2
	10.0 GHz	0.71 (2.34)	35.9
	20.0 GHz	1.06 (3.47)	24.4
Corona Extinction Voltage, VRMS @ 60 Hz	1200		
Voltage Withstand, VRMS @ 60 Hz	2500		

ENVIRONMENTAL CHARACTERISTICS

Outer Conductor Integrity Temperature, Celsius	150
Maximum Operating Temperature, Celsius	125

MATERIALS

Outer Conductor	Copper
Dielectric	PTFE
Center Conductor	SPCW

CUTAWAY
