

LTR	DESCRIPTION	DATE	BY
-	Released	8/19/94	JCL
A	Additional Properties Incorporated	11/5/01	JCL

**I. CONSTRUCTION**

center conductor: Stranded Bare Copper .108 inches  
 dielectric: Gas Injected Foam Polyethylene .285  
 shield: Aluminum-Polyester-Aluminum-Adhesive Tape .291  
         : 34 GA Tinned Copper Braid (90%k) .320  
 jacket: Black Thermoplastic Rubber .405

**II. ENVIRONMENTAL and MECHANICAL PROPERTIES**

weight: 90 pounds per 1000 feet  
 operating temperature: -40°C to +85°C  
 minimum bend radius: 1 inch (installation)  
   3 inch (multiple bends)

**III. ELECTRICAL PROPERTIES**

impedance: 50 ohms  
 capacitance: 23.9 pF per foot  
 velocity: 85 %  
 time delay: 1.384 nS per foot  
 shielding: > 90 dB  
 operating voltage (corona extinction): 2500 vrms  
 dc resistance (center conductor): 1.67 ohms per 1000 feet  
   (outer conductor): 1.65 ohms per 1000 feet


attenuation @	30 MHz:	0.9 dB/100 feet	2.1 kW
&	50 MHz:	1.1 dB	1.7 kW
cw power	150 MHz:	1.8 dB	1.0 kW
(typical)	220 MHz:	2.2 dB	0.8 kW
	450 MHz:	3.2 dB	0.6 kW
	900 MHz:	4.7 dB	0.4 kW
	1500 MHz:	6.1 dB	0.3 kW
	2000 MHz:	7.2 dB	0.25 kW
	2500 MHz:	8.2 dB	0.20 kW

**IV. NOTES**

1) All tests performed in accordance with MIL-C-17 (current issue).

Unless otherwise specified, dimensions are in inches. Tolerances are applicable when specified.

These drawings and specifications contain proprietary information which is the property of Times Microwave Systems.

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Drawn	JCL	8/19/94	
Check			
Prj. Mgr.			
Prd. Mgr.			
<b>LMR-400- UltraFlex</b> Low Loss Flexible High Performance Communications Coax			Size A    CAGE CODE <b>68999</b> Drawing No.: <b>AA-8181</b>
54040	QA Mgr.		Scale: NA    Rev. (A)    Sheet: 1 of 1