

LTR	DESCRIPTION	DATE	BY
-	Released	11/9/94	JCL
A	Additional Properties Incorporated	11/14/01	JCL

**I. CONSTRUCTION**

center conductor: Stranded Bare Copper	.056 inches
dielectric: Gas Injected Foam Polyethylene	.150
shield: Aluminum-Polyester-Aluminum-Adhesive Tape	.155
: 36GA Tinned Copper Braid (90%k)	.178
jacket: Black Thermoplastic Rubber	.240

**II. ENVIRONMENTAL and MECHANICAL PROPERTIES**

weight: 40pounds per 1000 feet  
 operating temperature: -40°C to +85°C  
 minimum bend radius: 3/4 inch (installation)  
 2-1/2 inch (multiple bends)

**III. ELECTRICAL PROPERTIES**

impedance: 50 ohms  
 capacitance: 24.2 pF per foot  
 velocity: 84 %  
 time delay: 1.417 nS per foot  
 shielding: > 90 dB  
 operating voltage (corona extinction): 1500 vrms  
 dc resistance (center conductor): 3.84 ohms per 1000 feet  
 (outer conductor): 3.89 ohms per 1000 feet

attenuation @	30 MHz:	1.5 dB/100 feet	0.98 kW
&	50 MHz:	1.9 dB	0.75 kW
cw power	150 MHz:	3.5 dB	0.42 kW
(typical)	220 MHz:	4.3 dB	0.34 kW
	450 MHz:	6.1 dB	0.24 kW
	900 MHz:	9.1 dB	0.17 kW
	1500 MHz:	12.0 dB	0.13 kW
	2000 MHz:	13.9 dB	0.11 kW
	2500 MHz:	15.5 dB	0.10 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.

**Approvals**

Drawn	JCL	11/9/94
Check		
Prj. Mgr.		
Prd. Mgr.		
QA Mgr.		



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**LMR-240- UltraFlex**

Low Loss Flexible  
 High Performance Communications Coax

Size	CAGE CODE	Drawing No.:
A	68999	AA-8213

54041	QA Mgr.			Scale: NA	Rev. (A)	Sheet: 1 of 1
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