

LTR	DESCRIPTION	DATE	BY
-	Released	5/18/11	JCL

**I. CONSTRUCTION**

center conductor: Solid Bare Copper Clad Aluminum	.108 inches
dielectric: Gas Injected Foam Polyethylene	.285
shield: Silver Plated Copper Flat Ribbon Braid	.295
: Aluminum-Polyester-Aluminum Tape	.300
: 34 GA Tinned Copper Braid (90%k)	.329
jacket: Black Polyurethane over	.405
Braid Sealant - Waterproofing Compound	

**II. ENVIRONMENTAL and MECHANICAL PROPERTIES**

weight:	90 pounds per 1000 feet
operating temperature:	-55°C to +85°C
minimum bend radius:	1 inch (installation) 4 inch (repeated bend)

**III. ELECTRICAL PROPERTIES**

impedance:	50 ohms	
capacitance:	23.9 pF per foot	
velocity:	85 %	
attenuation @	30 MHz: 0.7 dB	3.12 kw
(typical; /100feet)	50 MHz: 0.9 dB	2.41 kw
	150 MHz: 1.6 dB	1.38 kw
	220 MHz: 2.0 dB	1.13 kw
	450 MHz: 2.9 dB	0.78 kw
	900 MHz: 4.2 dB	0.54 kw
	1500 MHz: 5.4 dB	0.41 kw
	2000 MHz: 6.4 dB	0.35 kw
	2500 MHz: 7.2 dB	0.31 kw
	5800 MHz: 11.5 dB	0.19 kw
	10000 MHz: 15.7 dB	0.14 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	5/18/11
Check		



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**TCOM-400-PUR-DB**  
 Low Loss High Performance  
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Size A	CAGE CODE <b>68999</b>	Drawing No.: <b>AA-9977</b>
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