

LTR	DESCRIPTION	DATE	BY
-	Released	3/4/02	JCL

I. CONSTRUCTION

center conductor:	Stranded Silver Plated Copper	.176"
dielectric:	Gas Injected Foam Polyethylene	.455"
shield:	Silver Plated Copper Flat Ribbon Braid	.465"
	Spiral Aluminum-Polyester Tape Wrap	.470
	34 GA Tinned Copper Braid (85%k)	.499"
jacket:	Black Flame Retardant Polyurethane over Braid Sealant- Waterproofing Compound	.590"

II. ENVIRONMENTAL and MECHANICAL PROPERTIES

weight:	154 pounds per 1000 feet
operating temperature:	-55°C to +85°C
minimum bend radius:	1.5 inch (installation) 6 inch (repeated flexing)

III. ELECTRICAL PROPERTIES

impedance:	50 ohms																		
capacitance:	23.4 pF per foot																		
velocity:	87%																		
attenuation @ (typical)	<table> <tr> <td>30 MHz:</td> <td>0.51 dB per 100 feet</td> </tr> <tr> <td>50 MHz:</td> <td>0.66 dB per 100 feet</td> </tr> <tr> <td>150 MHz:</td> <td>1.2 dB per 100 feet</td> </tr> <tr> <td>220 MHz:</td> <td>1.4 dB per 100 feet</td> </tr> <tr> <td>450 MHz:</td> <td>2.1 dB per 100 feet</td> </tr> <tr> <td>900 MHz:</td> <td>3.0 dB per 100 feet</td> </tr> <tr> <td>1500 MHz:</td> <td>4.0 dB per 100 feet</td> </tr> <tr> <td>2000 MHz:</td> <td>4.6 dB per 100 feet</td> </tr> <tr> <td>2500 MHz:</td> <td>5.3 dB per 100 feet</td> </tr> </table>	30 MHz:	0.51 dB per 100 feet	50 MHz:	0.66 dB per 100 feet	150 MHz:	1.2 dB per 100 feet	220 MHz:	1.4 dB per 100 feet	450 MHz:	2.1 dB per 100 feet	900 MHz:	3.0 dB per 100 feet	1500 MHz:	4.0 dB per 100 feet	2000 MHz:	4.6 dB per 100 feet	2500 MHz:	5.3 dB per 100 feet
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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	3/4/02
Check		
Prj. Mgr.		
Prd. Mgr.		
QA Mgr.		



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TCOM-600-FlexStrand-DB
 Low Loss Flame Retardant
 High Performance Communications Coax

Size A	CAGE CODE 68999	Drawing No.: AA-9110
Scale: NA	Rev. (-)	Sheet: 1 of 1

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