THE REVISION STATUS OF ALL SHEETS OF THIS DRAWING IS THE SAME AS SHEET 1

| LTR | DESCRIPTION | DATE | BY |
|---|---|---|---|
| - | Released | 1/22/96 | JCL |
| A | Added Environmental Specs | 3/7/00 | JCL |
| B | Added Dimensional Tolerances & Adhesion | 8/21/01 | JCL |

I. **CONSTRUCTION**

| | |
|---|---|
| center conductor: Solid Bare Copper Clad Aluminum | .176 +/- .001” |
| dielectric: Gas Injected Foam Polyethylene | .455 +/- .005” |
| shield: Aluminum-Polyester-Aluminum-Adhesive Tape | .461 +/- .005” |
| : 33 GA Tinned Copper Braid (90%k) | .490 +/- .005” |
| jacket: Black Weather Resistant Polyethylene over | .590 +/- .005” |
| Braid Sealant – Waterproofing Compound | |

II. **ENVIRONMENTAL and MECHANICAL PROPERTIES**

weight: 131 pounds per 1000 feet
operating temperature: -40°C to +85°C
minimum bend radius: 1.5 inch
watertightness: ASTM D4565; REA PE-39; ANSI S-84-608
weather resistance: UL-1581, Paragraph 1200
environmental stress cracking: ASTM D1693
adhesion (center conductor to dielectric): 10 lbs (minimum)

III. **ELECTRICAL PROPERTIES**

impedance: 50 ohms
capacitance: 23.4 pF per foot
velocity: 87 %
dc resistance (center conductor): 0.53 ohms per 1000 feet
(outer conductor): 1.20 ohms per 1000 feet

| attenuation @ (typical) | |
|---|---|
| 30 MHz: | 0.42 dB per 100 feet |
| 50 MHz: | 0.55 dB |
| 150 MHz: | 0.96 dB |
| 220 MHz: | 1.72 dB |
| 450 MHz: | 2.18 dB |
| 900 MHz: | 2.50 dB |
| 1500 MHz: | 3.31 dB |
| 2000 MHz: | 3.90 dB |
| 2500 MHz: | 4.42 dB |
| 5800 MHz: | 7.30 dB |

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 | 1/22/96 |
| Check | | |
| Prj. Mgr. | | |
| Prd. Mgr. | | |
| QA Mgr. | | |

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**LMR-600-DB**
**High Performance Communications Coax for Outdoor Applications**

| Size | CAGE CODE | Drawing No.: |
|---|---|---|
| A | **68999** | **AA-8449** |

| | | |
|---|---|---|
| 54093 | Scale: NA | Rev. (B) | Sheet: 1 of 1 |