

| REV. STATUS SHEETS | REV.LTR. | - |  |  | REVISIONS |             |         |     |
|--------------------|----------|---|--|--|-----------|-------------|---------|-----|
|                    | SHEET NO | 1 |  |  | LTR       | DESCRIPTION | DATE    | BY  |
|                    |          |   |  |  | -         | Released    | 1/22/96 | JCL |
|                    |          |   |  |  |           |             |         |     |
|                    |          |   |  |  |           |             |         |     |

I. CONSTRUCTION

DIAMETER

|   |       |
|---|-------|
| Center Conductor: Solid Bare Copper   | .056" |
| Dielectric: Gas Injected Foam Polyethylene  | .150" |
| Shield: Bonded Aluminum-Polyester-Aluminum Tape                                     | .155" |
| 36 GA Tinned Copper Braid(90%k)   | .178" |
| Jacket: Black Weather Resistant Polyethylene over Braid Sealant - Flooding Compound | .240" |

II. ENVIRONMENTAL AND MECHANICAL PROPERTIES

Weight: 34 lbs per 1000 feet  
 Operating Temperature: -40°C to +85°C  
 Minimum Bend Radius: 3/4"

III. ELECTRICAL PROPERTIES

Impedance: 50 ohms  
 Capacitance: 24.2 pF per foot  
 Velocity: 84%  
 Attenuation @ 30 MHz: 1.3 dB per 100 feet  
 (typical) 50 MHz: 1.7 dB per 100 feet  
 150 MHz: 3.0 dB per 100 feet  
 220 MHz: 3.7 dB per 100 feet  
 450 MHz: 5.3 dB per 100 feet  
 900 MHz: 7.6 dB per 100 feet  
 1500 MHz: 9.9 dB per 100 feet  
 2000 MHz: 11.5 dB per 100 feet  
 2500 MHz: 12.9 dB per 100 feet

IV. NOTES

- 1) All tests performed in accordance with MIL-C-17(current issue).
- 2) Attenuation at any frequency can be approximated using the following equation: Attenuation = [k1 x SqRt(Fmhz)] + [k2 x Fmhz]  
 k1= .24208  
 k2= .00033

|  |           |     |         |  |            |               |  |
|--|-----------|-----|---------|--|------------|---------------|--|
| Unless otherwise specified dimensions in inches. Tolerances are applicable when specified. | Approvals |     |         | TIMES MICROWAVE SYSTEMS<br>Wallingford, CT 06492                                     |            |               |  |
|  | Drawn     | JCL | 1/22/96 | LMR-240-DB<br>High Performance Communications Coax<br>for Direct Burial Applications |            |               |  |
|  | Check     |     |         |  |            |               |  |
|  | PrjMg     |     |         |  |            |               |  |
|  | PrdMg     |     |         | Size   | Code Ident | Dwg.No.       |  |
|  |           |     | A       | 68999  |            | AA - 8446     |  |
| MI-54090   | QAMgr     | RTH | 1/22/96 | Scale: NA  |            | Sheet: 1 of 1 |  |