

LLC-MFT500 (LMR-500 Type)**Low Loss Flexible Coaxial Cable****Construction**

| Item | Material | Diameter (inch) | Diameter (mm) |
|------------------|---------------------------------|-------------------|-----------------|
| Center Conductor | Solid Copper Clad Aluminum Wire | 0.1425 inch | 3.62 mm |
| Dielectric | Foamed Polyethylene | 0.370 inch | 9.40 mm |
| Inner Shield | Sealed APA Tape | 0.376 inch | 9.55 mm |
| Outer Shield | 34AWG, 90% Tinned Copper Braid | 0.407 inch | 10.35 mm |
| Jacket | Black PE | 0.500 inch | 12.70 mm |

Electrical & Mechanical Data

| | |
|------------------------------------|--------------------------|
| Operation Frequency | 30 ~ 6000 MHz |
| Characteristic Impedance | 50 Ω |
| Velocity of Propagation, Nom. | 86 % |
| Capacitance, Nom. | 23.6 nF/kft (77.5 nF/km) |
| Inner Conductor Resistance @ 20 °C | 0.91 Ω/kft (3 Ω/km) |
| Outer Conductor Resistance @ 20 °C | 1.22 Ω/kft (4 Ω/km) |

Attenuation @ 20 °C

| Frequency | dB/100ft | dB/100m | Avg. Power Rating (Kw) |
|-----------|----------|---------|------------------------|
| 30 MHz | 0.55 | 1.80 | 4.40 |
| 50 MHz | 0.70 | 2.30 | 3.39 |
| 150 MHz | 1.22 | 4.00 | 1.93 |
| 220 MHz | 1.49 | 4.90 | 1.58 |
| 450 MHz | 2.16 | 7.10 | 1.09 |
| 900 MHz | 3.14 | 10.30 | 0.75 |
| 1500 MHz | 4.15 | 13.60 | 0.57 |
| 1800 MHz | 4.57 | 15.00 | 0.52 |
| 2000 MHz | 4.85 | 15.90 | 0.49 |
| 2500 MHz | 5.49 | 18.00 | 0.43 |
| 5800 MHz | 8.87 | 29.10 | 0.26 |