

MFC-300-UF (LMR-300 UF Type)**Low Loss Flexible Coaxial Cable****Construction**

| Item | Material | Diameter | Remark |
|------------------|----------------------|------------------------|-------------------------------|
| Center Conductor | Stranded Bare Copper | 1.78 mm (0.070 inch) | 7 Stranded Bare Copper Wire |
| Dielectric | Foam PE | 4.83 mm (0.190 inch) | Foam PE |
| Inner Shield | Aluminum Tape | 4.98 mm (0.196 inch) | Aluminum Tape Wrapping |
| Outer Shield | TC | 5.72 mm (0.225 inch) | Tin Plated Copper Wire |
| Jacket | TPE | 7.62 mm (0.300 inch) | BLACK Thermoplastic Elastomer |

Electrical & Mechanical Data

| | |
|--------------------------------|---|
| Characteristic Impedance | 50 Ω |
| Operating Frequency | 5.8 GHz (Max.) |
| Velocity of Propagation | 85 % |
| Capacitance | 78.4 pF/m (23.9 pF/ft) |
| Operating Temperature | - 40°C ~ 85°C |
| Voltage Withstand (Volts DC) | 2,000 |
| Jacket Spark (Volts RMS) | 5,000 |
| Min. Bending Radius | 22.2 mm (0.88 inch) Installation 76.2 mm (3.0 inch) Repeated |

Attenuation

| Frequency (MHz) | Attenuation | | Power Rating (Avg. Kw) |
|----------------------|-------------|--------------|-----------------------------|
| | (dB/100M) | (dB/100ft) | |
| 30 MHz | 4.20 | 1.28 | 1.74 |
| 50 MHz | 5.40 | 1.65 | 1.35 |
| 150 MHz | 9.40 | 2.87 | 0.77 |
| 220 MHz | 11.50 | 3.51 | 0.63 |
| 450 MHz | 16.60 | 5.06 | 0.44 |
| 900 MHz | 23.80 | 7.25 | 0.30 |
| 1500 MHz | 31.20 | 9.51 | 0.23 |
| 1800 MHz | 34.40 | 10.49 | 0.21 |
| 2000 MHz | 36.40 | 11.09 | 0.20 |
| 2500 MHz | 41.00 | 12.50 | 0.18 |
| 5800 MHz | 65.00 | 19.81 | 0.11 |