

**LLC-MFT100A ( LMR-100A Type )****Low Loss Flexible Coaxial Cable****Construction**

Item	Material	Diameter ( inch )	Diameter ( mm )
Center Conductor	Copper Clad Steel	0.0177 inch	0.45 mm
Dielectric	Solid Polyethylene	0.061 inch	1.54 mm
Inner Shield	Unsealed APA Tape	0.065 inch	1.65 mm
Outer Shield	38AWG, 90% Tinned Copper Braid	0.081 inch	2.05 mm
Jacket	Black PE	0.110 inch	2.79 mm

**Electrical & Mechanical Data**

Operation Frequency	50 ~ 2500 MHz
Characteristic Impedance	50 Ω
Velocity of Propagation, Nom.	66 %
Capacitance, Nom.	31.1 nF/kft (102.0 nF/km)
Inner Conductor Resistance @ 20 °C	81.7 Ω/kft (268 Ω/km)
Outer Conductor Resistance @ 20 °C	8.8 Ω/kft (29 Ω/km)

**Attenuation @ 20 °C**

Frequency	dB/100ft	dB/100m	Avg. Power Rating (Kw)
50 MHz	5.71	18.73	0.180
150 MHz	8.96	29.40	0.100
220 MHz	10.91	35.80	0.083
450 MHz	15.82	51.90	0.057
900 MHz	24.24	79.53	0.039
1500 MHz	30.08	98.70	0.029
1800 MHz	35.27	15.72	0.027
2000 MHz	37.50	123.03	0.025
2500 MHz	41.93	137.57	0.022