

Coaxial Cable LF-400 (LMR-400)



| Construction Specification |                                                   |              |
|----------------------------|---------------------------------------------------|--------------|
|                            | Material                                          | Diameter(mm) |
| Inner Conductor            | CCA                                               | 2.74         |
| Dielectric                 | Foam PE                                           | 7.24         |
| Outer Conductor            | Bonded Aluminum Foil+ Tinned copper clad aluminum | 8.13         |
| Jacket                     | PE                                                | 10.29        |

| Electrical Characteristics& Mechanical Characteristics |      |
|--------------------------------------------------------|------|
| Impedance (Ohm)                                        | 50   |
| Capacitance (pF/m)                                     | 78   |
| Velocity (%)                                           | 85   |
| Jacket Spark (VRMS)                                    | 8000 |
| Peak Power Rating (KW)                                 | 16   |
| Shielding Effectiveness (>dB)                          | 90   |
| Cut-off Frequency (GHz)                                | 16.2 |

| Attenuation & Average Power @ 20 °C and Sea Level |                    |                    |
|---------------------------------------------------|--------------------|--------------------|
| Frequency (MHz)                                   | Attenuation (dB/m) | Average Power (kw) |
| 30                                                | 0.02               | 3.30               |
| 50                                                | 0.03               | 2.60               |
| 150                                               | 0.05               | 1.50               |
| 220                                               | 0.06               | 1.20               |
| 450                                               | 0.09               | 0.83               |
| 900                                               | 0.13               | 0.58               |
| 1500                                              | 0.17               | 0.44               |
| 1800                                              | 0.19               | 0.40               |
| 2000                                              | 0.20               | 0.37               |
| 2500                                              | 0.22               | 0.33               |
| 5800                                              | 0.35               | 0.21               |
| 6000                                              | 0.36               | 0.21               |