

# LMR<sup>®</sup>-600

| Part Number  | Part Description                       |        |       | Stock Code |
|--------------|--|--------|-------|------------|
|              | Application                            | Jacket | Color |            |
| LMR-600      | Outdoor                                | PE     | Black | 54003      |
| LMR-600-DB   | Outdoor/Watertight                     | PE     | Black | 54093      |
| LMR-600-FR   | Indoor/Outdoor                         | FRPE   | Black | 54032      |
| LMR-600-LSZH | Riser CMR<br>Low Smoke<br>Zero Halogen | FRPE   | Black | 54392      |

| Description     | Construction Specifications |       |         |
|-----------------|-----------------------------|-------|---------|
|                 | Material                    | In.   | (mm)    |
| Inner Conductor | Solid BCCAI                 | 0.176 | (4.47)  |
| Dielectric      | Foam PE                     | 0.455 | (11.56) |
| Outer Conductor | Aluminum Tape               | 0.461 | (11.71) |
| Overall Braid   | Tinned Copper               | 0.490 | (12.45) |
| Jacket          | (see table)                 | 0.590 | (14.99) |

| Environmental Specifications   |  |          |         |
|--------------------------------|--|----------|---------|
| Performance Property           |  | °F       | °C      |
| Installation Temperature Range |  | -40/+185 | -40/+85 |
| Storage Temperature Range      |  | -94/+185 | -70/+85 |
| Operating Temperature Range    |  | -40/+185 | -40/+85 |

| Electrical Specifications |                   |       |          |
|---------------------------|-------------------|-------|----------|
| Performance Property      | Units             | US    | (metric) |
| Velocity of Propagation   | %                 | 85    |          |
| Dielectric Constant       | NA                | 1.32  |          |
| Time Delay                | nS/ft (nS/m)      | 1.17  | (3.83)   |
| Impedance                 | ohms              | 50    |          |
| Capacitance               | pF/ft (pF/m)      | 23.4  | (76.6)   |
| Inductance                | uH/ft (uH/m)      | 0.058 | (0.19)   |
| Shielding Effectiveness   | dB                | >90   |          |
| DC Resistance             |                   |       |          |
| Inner Conductor           | ohms/1000ft (/km) | 0.53  | (1.7)    |
| Outer Conductor           | ohms/1000ft (/km) | 1.2   | (3.9)    |
| Voltage Withstand         | Volts DC          | 4000  |          |
| Jacket Spark              | Volts RMS         | 8000  |          |
| Peak Power                | kW                | 40    |          |

| Mechanical Specifications |                |       |          |
|---------------------------|----------------|-------|----------|
| Performance Property      | Units          | US    | (metric) |
| Bend Radius: installation | in. (mm)       | 150   | (38.1)   |
| Bend Radius: repeated     | in. (mm)       | 6.0   | (152.4)  |
| Bending Moment            | ft-lb (N-m )   | 2.75  | (3.73)   |
| Weight                    | lb/ft (kg/m)   | 0.131 | (0.20)   |
| Tensile Strength          | lb (kg)        | 350   | (158.9)  |
| Flat Plate Crush          | lb/in. (kg/mm) | 60    | (1.07)   |

| Frequency (MHz)       | 30   | 50   | 150  | 220  | 450  | 900  | 1500 | 1800 | 2000 | 2500 | 5800 | 800  |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Attenuation dB/100 ft | 0.4  | 0.5  | 1.0  | 1.2  | 1.7  | 2.5  | 3.3  | 3.7  | 3.9  | 4.4  | 7.3  | 8.8  |
| Attenuation dB/100 m  | 1.4  | 1.8  | 3.2  | 3.9  | 5.6  | 8.2  | 10.9 | 12.1 | 12.8 | 14.5 | 23.8 | 29.0 |
| Avg. Power kW         | 5.51 | 4.24 | 2.41 | 1.97 | 1.35 | 0.93 | 0.70 | 0.63 | 0.59 | 0.52 | 0.32 | 0.26 |

