

## LOW LOSS CABLE

### CLF200

#### Physical Characteristics

| Type Nr. | Inner Conductor O.D.<br>in (mm) | Dielectric O.D.<br>in (mm)                      | Outer Conductor O.D.<br>in (mm)                                                          | Standard Jacket<br>in (mm) | Weight<br>Kg/m |
|----------|---------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------|----------------|
| CLF200   | .044 (1.12)<br>Bare Copper Wire | .116 (2.95)<br>Gas Injected Foamed Polyethylene | .144 (3.66)<br>Bonded Aluminum Foil<br>Tinned Copper Wire<br>16x6/0.12mm<br>Coverage 88% | .195 (4.95)<br>Black PVC   | 0.037          |

#### Electrical Characteristics

| Nominal Impedance<br>(ohms) | Nominal Velocity of Propagation | Capacitance<br>PF/ft (pF/m) | Nominal Attenuation |          |         |
|-----------------------------|---------------------------------|-----------------------------|---------------------|----------|---------|
|                             |                                 |                             | MHz                 | dB/100ft | dB/100m |
|                             |                                 |                             |                     |          |         |
| 50                          | 83%                             | 24.5 (80.4)                 | 30                  | 1.8      | 5.8     |
|                             |                                 |                             | 50                  | 2.3      | 7.5     |
|                             |                                 |                             | 150                 | 4.0      | 13.1    |
|                             |                                 |                             | 220                 | 4.8      | 15.9    |
|                             |                                 |                             | 450                 | 7.0      | 22.8    |
|                             |                                 |                             | 900                 | 9.9      | 32.6    |
|                             |                                 |                             | 1500                | 12.9     | 42.4    |
|                             |                                 |                             | 1800                | 14.2     | 46.6    |
|                             |                                 |                             | 2000                | 15.0     | 49.3    |
|                             |                                 |                             | 2500                | 16.9     | 55.4    |
|                             |                                 |                             | 5800                | 26.4     | 86.5    |

#### Electrical Specifications

| Performance Property    | Units        |      | US   | Metric |
|-------------------------|--------------|------|------|--------|
| Cutoff Frequency        | GHz          | 39   |      |        |
| Velocity of Propagation | %            | 83   |      |        |
| Dielectric Constant     | NA           | 1.45 |      |        |
| Time Delay              | nS/ft (nS/m) |      | 1.22 | 4.02   |

|                         |                   |      |       |      |
|-------------------------|-------------------|------|-------|------|
| Impedance               | Ohms              | 50   |       |      |
| Capacitance             | pF/ft (pF/m)      |      | 24.5  | 80.3 |
| Inductance              | uH/ft (uH/m)      |      | 0.061 | 0.20 |
| Shielding Effectiveness | dB                | >90  |       |      |
| DC Resistance           |                   |      |       |      |
| Inner Conductor         | Ohms/1000ft (/km) |      | 5.4   | 17.6 |
| Outer Conductor         | Ohms/1000ft (/km) |      | 4.9   | 16.1 |
| Voltage Withstand       | Volts DC          | 1000 |       |      |
| Jacket Spark            | Volts RMS         | 3000 |       |      |
| Peak Power              | kW                | 2.5  |       |      |