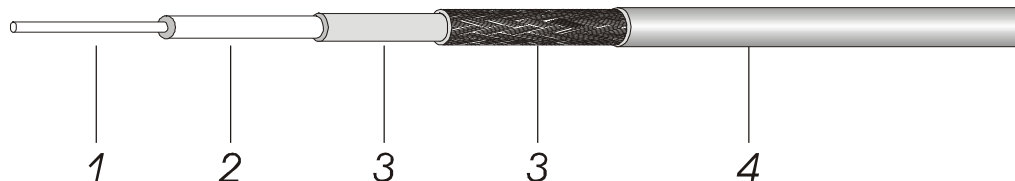


## CA-200

### HyperLink Wireless brand Low Loss Cable



#### Construction Specification

|                    | Material                                                     | Diameter (mm / in) |
|--------------------|--------------------------------------------------------------|--------------------|
| 1. Inner Conductor | Solid Copper                                                 | 1.12 / 0.044       |
| 2. Dielectric      | Physical Foam Polyethylene                                   | 2.95 / 0.116       |
| 3. Outer Conductor | Bonded Aluminum Foil +<br>Tinned Copper Braid (90% coverage) | 3.66 / 0.144       |
| 4. Jacket          | Black Polyethylene                                           | 4.95 / 0.195       |

#### Electrical Characteristics

|                                                  |        |
|--------------------------------------------------|--------|
| Capacitance (pF/m)                               | 80.4   |
| Impedance (ohm)                                  | 50     |
| Velocity (%)                                     | 83     |
| Inner Conductor DC Resistance<br>( $\Omega$ /km) | 17.59  |
| Outer Conductor DC Resistance<br>( $\Omega$ /km) | 16.08  |
| Shielding Effectiveness (dB)                     | >90    |
| Cutoff Frequency                                 | 39 GHz |
| Peak Power                                       | 2.5KW  |

#### Mechanical and Environmental Characteristics

|                                 |                         |
|---------------------------------|-------------------------|
| Min. Bend Radius (mm / in)      | 25 / 1.0                |
| Operating Temp. ( $^{\circ}$ C) | -40 to +80              |
| Tensile Strength (kg / lb)      | 18 / 40                 |
| Cable Weight (kg/m – lb/ft)     | 0.035kg/m<br>0.022lb/ft |
| RoHS Compliant                  | Yes                     |

#### Attenuation and Avg. Power (20 $^{\circ}$ C)

| Frequency (MHz) | Attenuation dB (100m / 100ft) | Avg. Power (KW) |
|-----------------|-------------------------------|-----------------|
| 30              | 5.8 / 1.8                     | 0.91            |
| 50              | 7.5 / 2.3                     | 0.70            |
| 150             | 13.1 / 4.0                    | 0.40            |
| 220             | 15.9 / 4.9                    | 0.33            |
| 450             | 22.8 / 7.0                    | 0.23            |
| 900             | 32.6 / 9.9                    | 0.16            |
| 1500            | 42.4 / 12.9                   | 0.12            |
| 1800            | 46.6 / 14.2                   | 0.11            |
| 2000            | 49.3 / 15.0                   | 0.11            |
| 2500            | 55.4 / 16.9                   | 0.10            |
| 3000            | 60.2 / 18.4                   | 0.09            |
| 5800            | 86.5 / 26.4                   | 0.06            |