

CA195FLEX

Cable Construction

| Description | Material | mm | Inches |
|----------------------------------|-------------------------------|------|--------|
| 1. Inner Conductor | Stranded bare copper | 0.97 | 0.038 |
| 2. Dielectric | Foam PE (Polyethylene) | 2.79 | 0.110 |
| 3. Outer Conductor - Shield Foil | Aluminum Tape | 2.95 | 0.116 |
| 4. Overall Braid | Tinned Copper | 3.53 | 0.139 |
| 5. Jacket (black or white) | Thermoplastic Elastomer (TPE) | 4.95 | 0.195 |

Mechanical Specifications

| Performance Characteristics | Unit | Metric | US |
|---------------------------------|--------------|-------------|--------------|
| Bend Radius (Installation) | mm - in. | 12.7 | 0.5 |
| Bend Radius (Repeated Flexing) | mm - in. | 50.8 | 2.0 |
| Tensile Strength | kg - lb. | 18.2 | 40 |
| Cable Weight | kg/m - lb/ft | 0.03 | 0.021 |
| Installation Temperature Rating | °C - °F | -40° to 85° | -40° to 185° |
| Operating Temperature Rating | °C - °F | -40° to 85° | -40° to 185° |

Electrical Specifications

| Performance Characteristics | Unit | Metric | US |
|---------------------------------|-------------------------|--------|-------|
| Peak Power | kW | 2.5 | 2.5 |
| Velocity of Propagation | % | 76 | 76 |
| Impedance | ohms (Ω) | 50 | 50 |
| Capacitance | pF/m - pF/ft | 83.3 | 25.4 |
| Inductance | μ H/m - μ H/ft | 0.21 | 0.064 |
| DC Resistance - Inner Conductor | ohms/km ohms/1000 ft | 31.2 | 9.5 |
| DC Resistance - Outer Conductor | ohms/km ohms/1000 ft | 16.1 | 4.9 |
| Shielding Effectiveness | dB | >90 | >90 |
| Voltage Withstand | Volts DC | 1000 | 1000 |
| Jacket Spark | Volts RMS | 3000 | 3000 |

Attenuation and Average Power

| Frequency (MHz) | dB/100 Meter | dB/100 Foot | Av. Power (kW) |
|-----------------|--------------|-------------|----------------|
| 30 | 7.7 | 2.3 | 0.7 |
| 50 | 9.9 | 3 | 0.54 |
| 150 | 17.3 | 5.3 | 0.31 |
| 220 | 21.1 | 6.4 | 0.25 |
| 450 | 30.4 | 9.3 | 0.18 |
| 800 | 40.8 | 12.1 | 0.13 |
| 900 | 43.4 | 13.2 | 0.12 |
| 1500 | 56.7 | 17.3 | 0.09 |
| 1800 | 62.4 | 19 | 0.08 |
| 2000 | 65.9 | 20.1 | 0.08 |
| 2200 | 69.3 | 21.1 | 0.08 |
| 2400 | 72.6 | 22.1 | 0.07 |
| 2500 | 74.2 | 22.6 | 0.07 |
| 3500 | 88.8 | 27.1 | 0.06 |
| 5800 | 116.7 | 35.6 | 0.04 |

