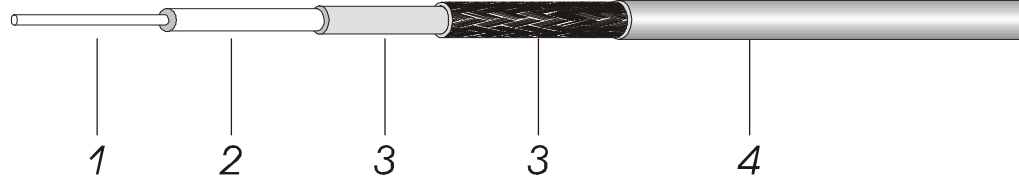


# CA-195R

## Low Loss Cable



### Construction Specification

	Material	Diameter (mm / in)
1. Inner Conductor	Solid Copper	0.94 / 0.037
2. Dielectric	Physical Foam Polyethylene	2.79 / 0.110
3. Outer Conductor	Bonded Aluminum Foil + Tinned Copper Braid	3.53 / 0.139
4. Jacket	Black Polyvinyl Chloride - FRPVC	4.95 / 0.195

### Electrical Characteristics

Capacitance (pF/m)	83.3
Impedance (ohm)	50
Velocity (%)	80
Inner Conductor DC Resistance ( $\Omega$ /km)	24.9
Outer Conductor DC Resistance ( $\Omega$ /km)	16.1
Shielding Effectiveness (dB)	>90
Cutoff Frequency	41 GHz
Peak Power	2.5KW

### Mechanical and Environmental Characteristics

Min. Bend Radius (mm / in)	25 / 1.0
Operating Temp. ( $^{\circ}$ C)	-20 to +60
Tensile Strength (kg / lb)	18.2 / 40
Cable Weight (kg/m – lb/ft)	0.035kg/m 0.022lb/ft
RoHS Compliant	Yes

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

Frequency (MHz)	Attenuation dB (100m / 100ft)	Avg. Power (KW)
30	6.5 / 2.0	0.89
50	8.4 / 2.6	0.68
150	14.6 / 4.4	0.39
220	17.70 / 5.4	0.32
450	25.5 / 7.8	0.22
900	36.5 / 11.1	0.15
1500	47.7 / 14.5	0.12
1800	52.5 / 16.0	0.11
2000	55.4 / 16.9	0.10
2500	62.4 / 19.0	0.09
5800	98.1 / 29.9	0.06