

# CA 600

## Cable Construction

Description	Material	mm	Inches
1. Inner Conductor	Solid BCCA1	4.47	0.176
2. Dielectric	Foam PE (Polyethylene)	11.56	0.455
3. Outer Conductor	Aluminum/Poly Tape	11.71	0.461
4. Overall Braid	34 AWG Tinned Copper, 90%	12.45	0.49
5. Jacket	PE (Polyethylene)	14.99	0.59

## Mechanical Specifications

Performance Characteristics	Unit	Metric	US
Minimum Bend Radius	mm - in.	38.1	1.5
Tensile Strength	kg - lb.	158.9	350
Cable Weight	kg/m - lb/ft	0.20	0.131
Operating Temperature Rating	°C - °F	-40° to 85°	-40° to 185°

## Electrical Specifications

Performance Characteristics	Unit	Metric	US
Cutoff Frequency	GHz	16.2	16.2
Peak Power	kW	40.0	40.0
Velocity of Propagation	%	87.0	87.0
Impedance	ohms ( $\Omega$ )	50	50
Capacitance	pF/m - pF/ft	76.6	23.4
DC Resistance - Inner Conductor	ohms/km ohms/1000 ft	1.8	0.55
DC Resistance - Outer Conductor	ohms/km ohms/1000 ft	4.2	1.30
Shielding Effectiveness	dB	>90	>90
Jacket Spark	Volts RMS	4000	4000

## Attenuation and Average Power

Frequency (MHz)	dB/100 Meter	dB/100 Foot	Av. Power (kW)
30	1.4	0.4	5.51
50	1.8	0.5	4.24
150	3.2	1.0	2.41
220	3.9	1.2	1.97
450	5.6	1.7	1.35
900	8.2	2.5	0.93
1500	10.9	3.3	0.70
1800	12.1	3.7	0.63
2000	12.8	3.9	0.59
2200	13.5	4.1	0.56
2400	14.1	4.3	0.53
2500	14.5	4.4	0.52
5800	23.8	7.3	0.32

