

### Cable Construction

# CA 400

Description	Material	mm	Inches
1. Inner Conductor	Solid BCCA1	2.74	0.108
2. Dielectric	Foam PE (Polyethylene)	7.24	0.285
3. Outer Conductor	Aluminum Tape	7.39	0.291
4. Overall Braid	34 AWG Tinned Copper, 90%	8.13	0.320
5. Jacket	Black PE (Polyethylene)	10.29	0.405

### Mechanical Specifications

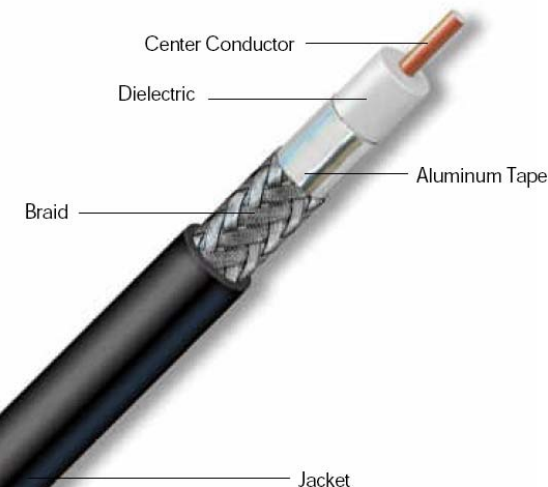
Performance Characteristics	Unit	US	Metric
Minimum Bend Radius	In. - mm	2	50
Tensile Strength	lb - kg	160	72.6
Cable Weight	lb/ft - kg/m	0.068	0.1
Operating Temperature Rating	F - C	-40° to -185°	-40° to 85°

### Electrical Specifications

Performance Characteristics	Unit	US	Metric
Cutoff Frequency	GHz	16.2	16.2
Peak Power	kW	16.0	16.0
Velocity of Propagation	%	85.0	85.0
Impedance	ohms ( $\Omega$ )	50	50
Capacitance	pF/ft - pF/m	23.9	78.4
DC Resistance - Inner Conductor	ohms/1000ft ohms/km	1.32	4.30
DC Resistance - Outer Conductor	ohms/1000ft ohms/km	2.10	6.80
Shielding Effectiveness	dB	>90	>90
Jacket Spark	Volts RMS	4000	4000

### Attenuation and Average Power

Frequency (MHz)	dB/100 Foot	dB/100 Meter	Av. Power (kW)
30	0.7	2.2	3.33
50	0.9	2.9	2.57
150	1.5	5.0	1.47
220	1.9	6.1	1.20
450	2.7	8.9	0.83
800	3.7	12.0	0.61
900	3.9	12.8	0.58
1500	5.1	16.8	0.44
1800	5.7	18.6	0.40
2000	6.0	19.6	0.37
2200	6.3	20.7	0.36
2400	6.6	21.7	0.34
2500	6.8	22.2	0.33
3500	8.1	26.7	0.27
5800	10.8	35.5	0.21



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