

Cable Construction

CA400FLEX

Description	Material	mm	Inches
1. Inner Conductor	Stranded BC (7 x 0.95mm)	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	PE (Polyethylene)	10.29	0.405

Mechanical Specifications

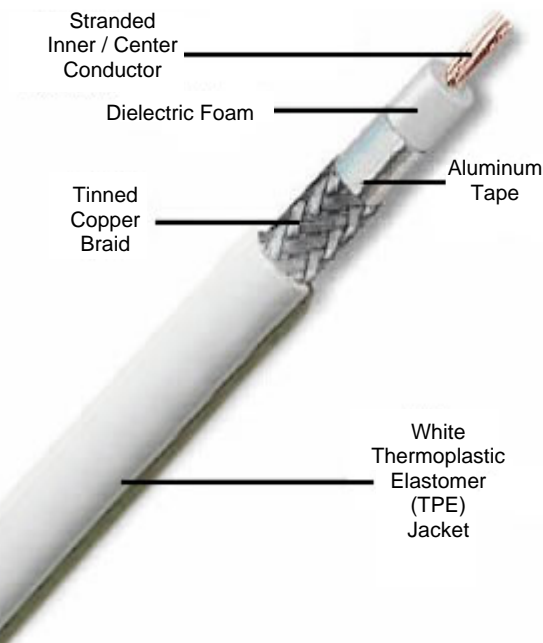
Performance Characteristics	Unit	US	Metric
Minimum Bend Radius	In. - mm	1	25.4
Tensile Strength	lb - kg	160	72.6
Cable Weight	lb/ft - kg/m	0.131	0.088
Operating Temperature Rating	F - C	-40° to -185°	-40° to 85°

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 (Ω)	50	50
Capacitance	pF/ft - pF/m	23.9	78.40
DC Resistance - Inner Conductor	ohms/1000ft ohms/km	1.07	3.51
DC Resistance - Outer Conductor	ohms/1000ft ohms/km	1.65	5.4
Voltage Withstand	Volts DC	2500	2500
Jacket Spark	Volts RMS	8000	8000

Attenuation and Average Power

Frequency (MHz)	dB/100 Foot	dB/100 Meter	Av. Power (kW)
30	0.8	2.7	2.77
50	1.1	3.5	2.14
150	1.8	6.1	1.22
220	2.2	7.4	1.00
450	3.3	10.7	0.69
800	4.4	14.4	0.51
900	4.7	15.4	0.48
1500	6.2	20.2	0.36
1800	6.8	22.3	0.33
2000	7.2	23.6	0.31
2200	7.5	24.8	0.30
2400	7.9	26.0	0.28
2500	8.1	26.6	0.28
3500	9.7	32.0	0.23
5800	13	42.6	0.17



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