Radio Line of Sight in Nautical Miles Between Two Antennas of Heights h1 and h2 in Feet

h2 \ h1	0*	10	12	15	20	30	40	60	80	100
0*	0	3.9	4.2	4.7	5.5	6.7	7.7	9.5	11.0	12.2
10	3.9	7.7	8.1	8.6	9.4	10.6	11.6	13.4	14.8	16.1
12	4.2	8.1	8.5	9.0	9.7	11.0	12.0	13.7	15.2	16.5
15	4.7	8.6	9.0	9.5	10.2	11.4	12.5	14.2	15.7	17.0
20	5.5	9.4	9.7	10.2	11.0	12.2	13.2	15.0	16.4	17.7
30	6.7	10.6	11.0	11.4	12.2	13.4	14.5	16.2	17.7	19.0
40	7.7	11.6	12	12.5	13.2	14.5	15.5	17.2	18.7	20.0
60	9.5	13.4	13.7	14.2	15	16.2	17.2	19.0	20.4	21.7
80	11.0	14.8	15.2	15.7	16.4	17.7	18.7	20.4	21.9	23.2
100	12.2	16.1	16.5	17.0	17.7	19.0	20.0	21.7	23.2	24.5

*Antenna at sea level will have less than calculated range due to sea state.

Cable Type	Dia inch	Bend Radius Inch	Wght lbs/ foot		Total Cable Lgth feet	Loss dB/ foot	Total Loss dB
RG-58	0.20	2.0	0.029		37	0.059	2.2
RG-8X	0.24	2.4	0.04		57	0.047	2.2
RG-8/U	0.41	4.5	0.10		88	0.025	2.2
RG-213	0.41	5.0	0.10		88	0.025	2.2
LMR-300	0.30	0.9	0.055		92	0.024	2.2
LMR-400	0.41	1.0	0.068		147	0.015	2.2
LMR500	0.50	1.25	0.099		169	0.013	2.2
LMR-600	0.59	1.5	0.131		220	0.010	2.2
LMR900	0.87	3.0	0.269		314	0.007	2.2

While powerboats should use cable with the lowest loss possible