

### Coaxial Cable Attenuation (Loss) in dB per 100' at 25°C

Model	Ω	Cost	160 m	80 m	40 m	20 m	15 m	10 m	6 m	2 m	70 cm	33 cm	23 cm	Dia
RG-174	50	24	1.1	1.6	2.2	3.1	3.9	4.5	6.1	10.2	18.1	26.3	31.4	100
RG-316	50	203	1.1	1.6	2.1	3.0	3.7	4.3	5.8	9.8	17.2	25.1	29.9	102
RG-58	50	24	0.6	0.9	1.2	1.7	2.1	2.5	3.3	5.6	10.0	14.7	17.6	195
LMR-195	50	58	0.5	0.7	1.0	1.4	1.7	2.0	2.6	4.4	7.8	11.3	13.5	195
RG-8X	50	35	0.5	0.7	1.0	1.3	1.6	1.9	2.7	4.5	8.2	12.4	15.0	242
RG-59	75	24	0.4	0.6	0.9	1.2	1.5	1.8	2.4	4.1	7.4	10.9	13.2	242
LMR-200	50	74	0.4	0.6	0.9	1.2	1.5	1.8	2.4	4.0	7.0	10.1	12.0	195
RG-6	75	23	0.4	0.5	0.7	1.0	1.2	1.4	1.9	3.3	6.0	9.0	10.9	332
LMR-240	50	69	0.3	0.5	0.7	0.9	1.1	1.3	1.8	3.0	5.3	7.7	9.2	240
RG-214	50	249	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.7	5.0	7.6	9.2	425
RG-213	50	89	0.3	0.4	0.5	0.7	0.9	1.0	1.4	2.4	4.5	6.8	8.3	405
RG-8, RG-8/U	50	79	0.3	0.4	0.5	0.7	0.9	1.0	1.4	2.4	4.5	6.8	8.3	405
LMR-400	50	123	0.2	0.2	0.3	0.5	0.6	0.7	0.9	1.5	2.7	4.0	4.7	405
LMR-600	50	238	0.1	0.2	0.2	0.3	0.4	0.4	0.6	1.0	1.7	2.5	3.1	600
LMR-1200	50	616	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.9	1.3	1.6	1200
LDF4-50A	50	470	0.079	0.091	0.205	0.291	0.291	0.357	0.463	0.815	1.447	2.171	2.507	500
HJ11-50	50	4538	0.013	0.015	0.034	0.049	0.049	0.06	0.079	0.143	0.268	0.424	0.435	4000

Cost = typical price in cents per foot (obviously, this will vary tremendously)

Dia = jacket outside diameter, in thousandths of an inch

### Coaxial Cable Capacity (Maximum Power Rating) in Watts

Model	Ω	pF/ft	160 m	80 m	40 m	20 m	15 m	10 m	6 m	2 m	70 cm	33 cm	23 cm	VF
RG-174	50	30.8	770	530	390	280	230	190	140	80	50	30	30	0.66
RG-316	50	29.4	4360	3040	2220	1580	1290	1090	800	480	270	180	150	0.69
RG-58	50	28.8	2210	1540	1120	800	650	550	410	240	130	90	80	0.66
LMR-195	50	26.7	2510	2290	1670	1190	970	830	610	370	210	140	120	0.76
RG-8X	50	30.8	1430	1000	730	510	420	350	260	150	80	60	50	0.82
RG-59	75	21.1	2050	1430	1040	740	600	510	380	220	120	80	70	0.66
LMR-200	50	24.5	2510	2510	2080	1480	1210	1030	760	460	260	180	150	0.83
RG-6	75	20.3	2360	1640	1190	850	690	580	430	250	140	90	80	0.66
LMR-240	50	24.2	5600	4160	3040	2160	1770	1500	1110	660	380	260	220	0.84
RG-214	50	30.8	5000	4700	3420	2420	1970	1670	1220	720	390	260	210	0.66
RG-213	50	30.8	5000	5000	4030	2850	2320	1960	1440	840	450	300	240	0.66
RG-8, RG-8/U	50	29.6	4810	4810	4030	2850	2320	1960	1440	840	450	300	240	0.66
LMR-400	50	23.9	13350	9310	6790	4830	3950	3350	2470	1480	830	570	470	0.85
LMR-600	50	23.4	22190	15460	11270	8010	6530	5530	4080	2420	1350	910	760	0.87
LMR-1200	50	23.1	51060	35550	25900	18390	14990	12690	9340	5530	3060	2050	1700	0.88
LDF4-50A	50	23.1	4.0 e4	4.0 e4	4.0 e4	4.0 e4	4.0 e4	4.0 e4	4.0 e4	4.0 e4	4.0 e4	4.0 e4	4.0 e4	0.88
HJ11-50	50	22.0	1.1 e6	1.1 e6	1.1 e6	1.1 e6	1.1 e6	1.1 e6	1.1 e6	1.1 e6	1.1 e6	1.1 e6	1.1 e6	0.92

pF/ft = capacitance in picofarads per foot

VF = velocity factor, often denoted as  $V_g$  or  $V_p$  (electrical communication speed in proportion to the speed of light)

Many power and attenuation calculations are taken from the Times Microwave Systems online calculator

LDF4-50A spec sheet = <https://www.commscope.com/catalog/cables/pdf/part/1329/LDF4-50A.pdf>

HJ11-50 spec sheet = <https://www.commscope.com/catalog/cables/pdf/part/1452/HJ11-50.pdf>