



Typical Losses in 50 Ohm Coaxial Cables

\$1.00



Coax Type	Outside Diameter	Dielectric Type	Velocity Factor	Loss - dB/100 feet						
				10MHz	30MHz	50MHz	150MHz	450MHz	900MHz	3000MHz
RG188		Teflon	0.695	3.8	6.58	7.9	13.7	23.7	31.8	58
LMR-100	*	Polyethylene	0.66	1.3	3.9	5.1	8.9	15.8	22.8	47.7
LMR/CNT-195	*	Poly Foam	0.75	1.37	2.38	3.1	5.3	9.2	13	24
RG58C/U	*	Polyethylene	0.659	1.4	2.4	4.1	7.1	11.8	20	37
RG58/U	*	Polyethylene	0.659	1.2	2.1	3.1	5.4	9.3	16	30
RG400		Teflon	0.695	1.2	2.1	2.7	4.7	10	14.2	26
RG8X (mini 8)	*	Poly Foam	0.78	1.12	1.94	2.5	4.3	7.5	12.8	23
LMR-240	*	Poly Foam	0.24	0.84	1.3	1.7	3.0	5.3	7.6	14.2
RG8/RG213	*	Polyethylene	0.659	0.66	1.14	1.5	2.6	4.5	10.4	19
Davis Bury-Flex	*	Poly Foam	0.82	0.52	0.9	1.1	1.9	3.3	4.9	8.9
WM106/CQ4XL	*	Poly Foam	0.82	0.5	0.85	1.1	1.9	3.3	4.7	8.6
Belden 9913F7	*	Poly Foam	0.85	0.6	0.9	1.1	1.9	3.3	4.7	9.8
9913		Poly/Air	0.89	0.4	0.86	0.9	1.56	2.7	4.2	7.7
LMR-400	*	Poly Foam	0.83	0.4	0.7	0.9	1.5	2.7	3.9	7.3
FSJ1-50A (1/4")		Poly Foam	0.78	0.56	0.99	1.28	2.29	4.19	6.2	12.9
LMR-600		Poly Foam	0.87	0.3	0.4	0.8	0.99	1.72	2.4	4.5
LDF4-50A (1/2")		Poly Foam	0.88	0.21	0.37	0.78	0.85	1.51	2.3	4.38
LDF5-50 (7/8")		Poly Foam	0.89	0.11	0.20	0.26	0.46	0.83	1.23	2.53
LDF7-50 (1-5/8")		Poly Foam	0.89	0.08	0.15	0.19	0.34	0.62	0.91	1.86

* 50 Ohm coax normally stocked

- Notes:** - dimensions are in inches
 - coax losses are those specified by the manufacturer (or extrapolated values)
 - 1dB loss means about 21% of the signal is lost.
 - 2dB loss means about 37½% of the signal is lost.
 - 3dB loss means 50% (half) the signal is lost.
 - 6dB loss means 75% of the signal is lost.
 - 10dB loss means 90% of the signal is lost.



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