

Speaker Wire Distance and Power

For 8 Ω Systems

AWG	DCR	5% Value	Feet	Meters	Max Amps	Max Watts
22	0.0153	0.40	13.07	3.99	0.92	7.11
20	0.0107	0.40	18.73	5.71	1.5	18.90
18	0.0067	0.40	29.67	9.05	2.3	44.44
16	0.0040	0.40	49.75	15.17	3.7	115.00
14	0.0025	0.40	80.32	24.49	5.9	292.40
13	0.0020	0.40	98.04	29.89	7.4	459.98
12	0.0017	0.40	119.05	36.30	9.3	726.52
11	0.0013	0.40	155.04	47.27	12	1209.60
10	0.0010	0.40	204.08	62.22	15	1890.00

For 4 Ω Systems

AWG	DCR	5% Value	Feet	Meters	Max Amps	Max Watts
22	0.0153	0.20	6.54	1.99	0.92	3.55
20	0.0107	0.20	9.36	2.85	1.5	9.45
18	0.0067	0.20	14.84	4.52	2.3	22.22
16	0.0040	0.20	24.88	7.58	3.7	57.50
14	0.0025	0.20	40.16	12.24	5.9	146.20
13	0.0020	0.20	49.02	14.95	7.4	229.99
12	0.0017	0.20	59.52	18.15	9.3	363.26
11	0.0013	0.20	77.52	23.63	12	604.80
10	0.0010	0.20	102.04	31.11	15	945.00

Note: The maximum amperage listed is a conservative recommendation that will not result in significant temperature increases with the wires. This is for two-conductor speaker wire only, the amperage total will be reduced for more conductors. Multiply the amperage rating by .80 for 4-6 conductor applications.

The values on this sheet are conservative and are not established maximum values, this is a recommended distance and power limit based upon the most efficient application of wire and cable products for non-70 volt speaker systems with minimal signal loss and harmonic distortion. Safety with amperage is a paramount consideration in the limits placed above.