

RADIO CONSTRUCTORS DATA SHEET

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SOUND FREQUENCY- WAVELENGTH TABLE

The velocity of sound in air at 20°C is approximately 1,130 ft per second, or 344 metres per second. Wavelength is sound velocity divided by frequency, and the Table gives calculated wavelength figures for frequencies from 10 c/s to 100 kc/s.

Frequency (c/s)	Wavelength		Frequency (kc/s)	Wavelength	
	ft	metres		in	cm
10	113	34.4	1	13.6	34.4
15	75.3	23.0	1.5	9.04	23.0
20	56.5	17.2	2	6.78	17.2
30	37.7	11.5	3	4.52	11.5
40	28.2	8.61	4	3.39	8.61
50	22.6	6.89	5	2.71	6.89
60	18.8	5.74	6	2.26	5.74
70	16.1	4.92	7	1.94	4.92
80	14.1	4.30	8	1.70	4.30
90	12.6	3.83	9	1.51	3.83
100	11.3	3.44	10	1.36	3.44
150	7.53	2.30	15	0.904	2.30
200	5.65	1.72	20	0.678	1.72
300	3.77	1.15	30	0.452	1.15
400	2.82	0.861	40	0.339	0.861
500	2.26	0.689	50	0.271	0.689
600	1.88	0.574	60	0.226	0.574
700	1.61	0.492	70	0.194	0.492
800	1.41	0.430	80	0.170	0.430
900	1.26	0.383	90	0.151	0.383
1,000	1.13	0.344	100	0.136	0.344