

Alternating Current (AC) Wavelength, Based on the Frequency in Hertz [Cycles Per Second (CPS)] of the AC Wave

Speed of Light (SOL) in Feet Per Second (MPS)	Commercial Mains AC Frequency, Measured in Hertz (Hz)	Full Electrical Wavelength of AC Frequency in Feet (Wavelength = SOL/Hz)	Full Physical Wavelength of AC Frequency in Feet 95% of Electrical Full Wavelength	Half Electrical Wavelength of AC Frequency in Feet (Wavelength = SOL/Hertz/2)	Half Physical Wavelength of AC Frequency in Feet 95% of Electrical Half Wavelength
984,000,000	60 Hz	16,400,000	15,580,000.00	8,200,000	7,790,000.00
Speed of Light (SOL) in Feet Per Second (MPS)	Amateur Radio Service Band, Center AC Frequency, Measured in Hertz (Hz)	Full Electrical Wavelength of AC Frequency in Feet (Wavelength = SOL/Hz)	Full Physical Wavelength of AC Frequency in Feet 95% of Electrical Full Wavelength	Half Electrical Wavelength of AC Frequency in Feet (Wavelength = SOL/Hertz/2)	Half Physical Wavelength of AC Frequency in Feet 95% of Electrical Half Wavelength
984,000,000	1,900,000 Hz	517.89	492.00	258.95	246.00
	3,750,000 Hz	262.40	249.28	131.20	124.64
	5,367,000 Hz	183.34	174.18	91.67	87.09
	7,150,000 Hz	137.62	130.74	68.81	65.37
	10,125,000 Hz	97.19	92.33	48.59	46.16
	14,175,000 Hz	69.42	65.95	34.71	32.97
	18,118,000 Hz	54.31	51.60	27.16	25.80
	21,225,000 Hz	46.36	44.04	23.18	22.02
	24,940,000 Hz	39.45	37.48	19.73	18.74
	28,850,000 Hz	34.11	32.40	17.05	16.20
	52,000,000 Hz	18.92	17.98	9.46	8.99
	146,000,000 Hz	6.74	6.40	3.37	3.20
	236,000,000 Hz	4.17	3.96	2.08	1.98
	435,000,000 Hz	2.26	2.15	1.13	1.07
915,000,000 Hz	1.08	1.02	0.54	0.51	
1,270,000,000 Hz	0.77	0.74	0.39	0.37	

To convert Wavelength to 'Meters', divide the Feet by 3.28

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300,000,000	60 Hz	5,000,000	4,750,000.00	2,500,000	2,375,000.00
Speed of Light (SOL) in Meters Per Second (MPS)	Amateur Radio Service Band, Center AC Frequency, Measured in Hertz (Hz)	Full Electrical Wavelength of AC Frequency in Meters (Wavelength = SOL/Hz)	Full Physical Wavelength of AC Frequency in Meters 95% of Electrical Full Wavelength	Half Electrical Wavelength of AC Frequency in Meters (Wavelength = SOL/Hertz/2)	Half Physical Wavelength of AC Frequency in Meters 95% of Electrical Half Wavelength
300,000,000	1,900,000 Hz	157.89	150.00	78.95	75.00
	3,750,000 Hz	80.00	76.00	40.00	38.00
	5,367,000 Hz	55.90	53.10	27.95	26.55
	7,150,000 Hz	41.96	39.86	20.98	19.93
	10,125,000 Hz	29.63	28.15	14.81	14.07
	14,175,000 Hz	21.16	20.11	10.58	10.05
	18,118,000 Hz	16.56	15.73	8.28	7.87
	21,225,000 Hz	14.13	13.43	7.07	6.71
	24,940,000 Hz	12.03	11.43	6.01	5.71
	28,850,000 Hz	10.40	9.88	5.20	4.94
	52,000,000 Hz	5.77	5.48	2.88	2.74
	146,000,000 Hz	2.05	1.95	1.03	0.98
	236,000,000 Hz	1.27	1.21	0.64	0.60
	435,000,000 Hz	0.69	0.66	0.34	0.33
915,000,000 Hz	0.33	0.31	0.16	0.16	
1,270,000,000 Hz	0.24	0.22	0.12	0.11	

To convert Wavelength to 'Feet', multiply the Meters by 3.28