

FREQUENCY/WAVELENGTH IN FEET (FT) AND METERS (M)

BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
70 CM	420.0000	0.56	1.11	1.67	2.23	2.39	0.17	0.34	0.51	0.68	0.73
	430.0000	0.54	1.09	1.63	2.18	2.34	0.17	0.33	0.50	0.66	0.71
	440.0000	0.53	1.06	1.60	2.13	2.28	0.16	0.32	0.49	0.65	0.70
	450.0000	0.52	1.04	1.56	2.08	2.23	0.16	0.32	0.48	0.63	0.68
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
2 M	144.0000	1.63	3.25	4.88	6.50	6.98	0.49	0.99	1.48	1.98	2.13
	145.0000	1.61	3.23	4.84	6.46	6.93	0.49	0.98	1.47	1.97	2.11
	146.0000	1.60	3.21	4.81	6.41	6.88	0.49	0.98	1.46	1.95	2.10
	147.0000	1.59	3.18	4.78	6.37	6.84	0.48	0.97	1.45	1.94	2.08
	148.0000	1.58	3.16	4.74	6.32	6.79	0.48	0.96	1.44	1.93	2.07
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
6 M	50.0000	4.68	9.36	14.04	18.72	20.10	1.43	2.85	4.28	5.70	6.13
	51.0000	4.59	9.18	13.76	18.35	19.71	1.40	2.79	4.19	5.59	6.01
	52.0000	4.50	9.00	13.50	18.00	19.33	1.37	2.74	4.11	5.48	5.89
	53.0000	4.42	8.83	13.25	17.66	18.96	1.34	2.69	4.03	5.38	5.78
	54.0000	4.33	8.67	13.00	17.33	18.61	1.32	2.64	3.96	5.28	5.67
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
10 M	28.0000	8.36	16.71	25.07	33.43	35.89	2.54	5.09	7.63	10.18	10.94
	28.1000	8.33	16.65	24.98	33.31	35.77	2.54	5.07	7.61	10.14	10.90
	28.2000	8.30	16.60	24.89	33.19	35.64	2.53	5.05	7.58	10.11	10.86
	28.3000	8.27	16.54	24.81	33.07	35.51	2.52	5.04	7.55	10.07	10.82
	28.4000	8.24	16.48	24.72	32.96	35.39	2.51	5.02	7.53	10.04	10.79
	28.5000	8.21	16.42	24.63	32.84	35.26	2.50	5.00	7.50	10.00	10.75
	28.6000	8.18	16.36	24.55	32.73	35.14	2.49	4.98	7.47	9.97	10.71
	28.7000	8.15	16.31	24.46	32.61	35.02	2.48	4.97	7.45	9.93	10.67
	28.8000	8.13	16.25	24.38	32.50	34.90	2.47	4.95	7.42	9.90	10.64
	28.9000	8.10	16.19	24.29	32.39	34.78	2.47	4.93	7.40	9.86	10.60
	29.0000	8.07	16.14	24.21	32.28	34.66	2.46	4.91	7.37	9.83	10.56
	29.1000	8.04	16.08	24.12	32.16	34.54	2.45	4.90	7.35	9.79	10.53
	29.2000	8.01	16.03	24.04	32.05	34.42	2.44	4.88	7.32	9.76	10.49
	29.3000	7.99	15.97	23.96	31.95	34.30	2.43	4.86	7.30	9.73	10.45
	29.4000	7.96	15.92	23.88	31.84	34.18	2.42	4.85	7.27	9.69	10.42
	29.5000	7.93	15.86	23.80	31.73	34.07	2.42	4.83	7.25	9.66	10.38
	29.6000	7.91	15.81	23.72	31.62	33.95	2.41	4.81	7.22	9.63	10.35
	29.7000	7.88	15.76	23.64	31.52	33.84	2.40	4.80	7.20	9.60	10.31
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
12 M	24.9200	9.39	18.78	28.17	37.56	40.33	2.86	5.72	8.58	11.44	12.29
	24.9250	9.39	18.78	28.16	37.55	40.32	2.86	5.72	8.58	11.43	12.29
	24.9300	9.39	18.77	28.16	37.55	40.31	2.86	5.72	8.57	11.43	12.29
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
15M	21.0000	11.14	22.29	33.43	44.57	47.86	3.39	6.79	10.18	13.57	14.59
	21.0500	11.12	22.23	33.35	44.47	47.74	3.38	6.77	10.15	13.54	14.55
	21.1000	11.09	22.18	33.27	44.36	47.63	3.38	6.75	10.13	13.51	14.52
	21.1500	11.06	22.13	33.19	44.26	47.52	3.37	6.74	10.11	13.48	14.48
	21.2000	11.04	22.08	33.11	44.15	47.41	3.36	6.72	10.08	13.44	14.45

	21.2500	11.01	22.02	33.04	44.05	47.29	3.35	6.71	10.06	13.41	14.42
	21.3000	10.99	21.97	32.96	43.94	47.18	3.35	6.69	10.04	13.38	14.38
	21.3500	10.96	21.92	32.88	43.84	47.07	3.34	6.67	10.01	13.35	14.35
	21.4000	10.93	21.87	32.80	43.74	46.96	3.33	6.66	9.99	13.32	14.31
	21.4500	10.91	21.82	32.73	43.64	46.85	3.32	6.64	9.97	13.29	14.28
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
17 M	18.0680	12.95	25.90	38.85	51.80	55.62	3.94	7.89	11.83	15.77	16.95
	18.1100	12.92	25.84	38.76	51.68	55.49	3.93	7.87	11.80	15.74	16.91
	18.1680	12.88	25.76	38.64	51.52	55.32	3.92	7.84	11.77	15.69	16.86
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
20 M	14.0000	16.71	33.43	50.14	66.86	71.79	5.09	10.18	15.27	20.36	21.88
	14.0500	16.65	33.31	49.96	66.62	71.53	5.07	10.14	15.21	20.28	21.80
	14.1000	16.60	33.19	49.79	66.38	71.28	5.05	10.11	15.16	20.21	21.73
	14.1500	16.54	33.07	49.61	66.15	71.02	5.04	10.07	15.11	20.14	21.65
	14.2000	16.48	32.96	49.44	65.92	70.77	5.02	10.04	15.05	20.07	21.57
	14.2500	16.42	32.84	49.26	65.68	70.53	5.00	10.00	15.00	20.00	21.50
	14.3000	16.36	32.73	49.09	65.45	70.28	4.98	9.97	14.95	19.93	21.42
	14.3500	16.31	32.61	48.92	65.23	70.03	4.97	9.93	14.90	19.86	21.35
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
30 M	10.1000	23.17	46.34	69.50	92.67	99.50	7.05	14.11	21.16	28.22	30.33
	10.1500	23.05	46.11	69.16	92.22	99.01	7.02	14.04	21.06	28.08	30.18
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
40 M	7.0000	33.43	66.86	100.29	133.71	143.57	10.18	20.36	30.54	40.71	43.76
	7.0500	33.19	66.38	99.57	132.77	142.55	10.11	20.21	30.32	40.43	43.45
	7.1000	32.96	65.92	98.87	131.83	141.55	10.04	20.07	30.11	40.14	43.14
	7.1500	32.73	65.45	98.18	130.91	140.56	9.97	19.93	29.90	39.86	42.84
	7.2000	32.50	65.00	97.50	130.00	139.58	9.90	19.79	29.69	39.58	42.55
	7.2500	32.28	64.55	96.83	129.10	138.62	9.83	19.66	29.48	39.31	42.25
	7.3000	32.05	64.11	96.16	128.22	137.67	9.76	19.52	29.28	39.04	41.96
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
60 M	5.3305	43.90	87.80	131.69	175.59	188.54	13.37	26.73	40.10	53.47	57.47
	5.3465	43.77	87.53	131.30	175.07	187.97	13.33	26.65	39.98	53.31	57.29
	5.3570	43.68	87.36	131.04	174.72	187.61	13.30	26.60	39.90	53.20	57.18
	5.3715	43.56	87.13	130.69	174.25	187.10	13.26	26.53	39.79	53.06	57.03
	5.4035	43.31	86.61	129.92	173.22	185.99	13.19	26.37	39.56	52.74	56.69
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
80/75	3.4000	68.82	137.65	206.47	275.29	295.59	20.96	41.91	62.87	83.82	90.10
	3.4500	67.83	135.65	203.48	271.30	291.30	20.65	41.30	61.96	82.61	88.79
	3.5000	66.86	133.71	200.57	267.43	287.14	20.36	40.71	61.07	81.43	87.52
	3.5500	65.92	131.83	197.75	263.66	283.10	20.07	40.14	60.21	80.28	86.29
	3.6000	65.00	130.00	195.00	260.00	279.17	19.79	39.58	59.38	79.17	85.09
	3.6500	64.11	128.22	192.33	256.44	275.34	19.52	39.04	58.56	78.08	83.92
	3.7000	63.24	126.49	189.73	252.97	271.62	19.26	38.51	57.77	77.03	82.79
	3.7500	62.40	124.80	187.20	249.60	268.00	19.00	38.00	57.00	76.00	81.69
	3.8000	61.58	123.16	184.74	246.32	264.47	18.75	37.50	56.25	75.00	80.61
	3.8500	60.78	121.56	182.34	243.12	261.04	18.51	37.01	55.52	74.03	79.56
	3.9000	60.00	120.00	180.00	240.00	257.69	18.27	36.54	54.81	73.08	78.54

	3.9500	59.24	118.48	177.72	236.96	254.43	18.04	36.08	54.11	72.15	77.55
	4.0000	58.50	117.00	175.50	234.00	251.25	17.81	35.63	53.44	71.25	76.58
BAND	FREQ	1/4 FT	1/2 FT	3/4 FT	FULL FT	LOOP FT	1/4 M	1/2 M	3/4 M	FULL M	LOOP M
160 M	1.8000	130.00	260.00	390.00	520.00	558.33	39.58	79.17	118.75	158.33	170.18
	1.8100	129.28	258.56	387.85	517.13	555.25	39.36	78.73	118.09	157.46	169.24
	1.8200	128.57	257.14	385.71	514.29	552.20	39.15	78.30	117.45	156.59	168.31
	1.8300	127.87	255.74	383.61	511.48	549.18	38.93	77.87	116.80	155.74	167.39
	1.8400	127.17	254.35	381.52	508.70	546.20	38.72	77.45	116.17	154.89	166.48
	1.8500	126.49	252.97	379.46	505.95	543.24	38.51	77.03	115.54	154.05	165.58
	1.8600	125.81	251.61	377.42	503.23	540.32	38.31	76.61	114.92	153.23	164.69
	1.8700	125.13	250.27	375.40	500.53	537.43	38.10	76.20	114.30	152.41	163.81
	1.8800	124.47	248.94	373.40	497.87	534.57	37.90	75.80	113.70	151.60	162.94
	1.8900	123.81	247.62	371.43	495.24	531.75	37.70	75.40	113.10	150.79	162.08
	1.9000	123.16	246.32	369.47	492.63	528.95	37.50	75.00	112.50	150.00	161.22
	1.9100	122.51	245.03	367.54	490.05	526.18	37.30	74.61	111.91	149.21	160.38
	1.9200	121.88	243.75	365.63	487.50	523.44	37.11	74.22	111.33	148.44	159.54
	1.9300	121.24	242.49	363.73	484.97	520.73	36.92	73.83	110.75	147.67	158.72
	1.9400	120.62	241.24	361.86	482.47	518.04	36.73	73.45	110.18	146.91	157.90
	1.9500	120.00	240.00	360.00	480.00	515.38	36.54	73.08	109.62	146.15	157.09
	1.9600	119.39	238.78	358.16	477.55	512.76	36.35	72.70	109.06	145.41	156.29
	1.9700	118.78	237.56	356.35	475.13	510.15	36.17	72.34	108.50	144.67	155.49
	1.9800	118.18	236.36	354.55	472.73	507.58	35.98	71.97	107.95	143.94	154.71
	1.9900	117.59	235.18	352.76	470.35	505.03	35.80	71.61	107.41	143.22	153.93
	2.0000	117.00	234.00	351.00	468.00	502.50	35.63	71.25	106.88	142.50	153.16