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| **Cálculo de Longitudes para elaboración antenas dipolos en HF** |

Para calcular la longitud de una antena dipolo o dipolo en "V" invertida de HF, introduzca el valor de la frecuencia, de trabajo, en Megaciclos. (El diámetro de hilo considerado ha sido de 2 mm. de cobre esmaltado).

Principio del formulario

Principio del formulario

Dividido por: Frecuencia en Mhz.   
Porcentaje inferior para la "V" invertida.

La longitud total del dipolo es de metros.   
Cada rama del dipolo mide metros.

La longitud total del dipolo en "V" invertida es metros.   
Cada rama del dipolo en "V" invertida mide metros.

Final del formulario

**Tablas de bajadas y altura de antenas sobre el suelo.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Banda | | Frecuencia en Khz. | Cable coaxial de bajada.  Longitud en metros. | | | Altura en metros del suelo | | | | Angulo de radiación | | | | 1 onda | 1/2 onda | 1/4 onda | 30º | 45º | Recomen. | | HF | 80 m. | 3.500 | 56.57 | 28.29 | 14.14 | 42.86 | 30.00 | 21.00 | | 3.550 | 55.77 | 27.89 | 13.94 | 42.25 | 29.58 | 20.70 | | 3.600 | 55.00 | 27.50 | 13.75 | 41.67 | 29.17 | 20.42 | | 3.650 | 54.25 | 27.12 | 13.56 | 41.10 | 28.77 | 20.14 | | 3.700 | 53.51 | 26.76 | 13.38 | 40.54 | 28.38 | 19.86 | | 3.750 | 52.80 | 26.40 | 13.20 | 40.00 | 28.00 | 19.60 | | 3.800 | 52.11 | 26.05 | 13.03 | 39.48 | 27.63 | 19.34 | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Banda | | Frecuencia en Khz. | Cable coaxial de bajada.  Longitud en metros. | | | Altura en metros del suelo | | | | Angulo de radiación | | | | 1 onda | 1/2 onda | 1/4 onda | 30º | 45º | Recomen. | | HF | 40 m. | 7.000 | 28.29 | 14.14 | 7.07 | 21.43 | 15.00 | 10.50 | | 7.050 | 28.09 | 14.04 | 7.02 | 21.28 | 14.89 | 10.43 | | 7.100 | 27.89 | 13.94 | 6.97 | 21.13 | 14.79 | 10.35 | |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Banda | | Frecuencia en Khz. | Cable coaxial de bajada.  Longitud en metros. | | | Altura en metros del suelo | | | | Angulo de radiación | | | | 1 onda | 1/2 onda | 1/4 onda | 30º | 45º | Recomen. | | HF | 31 m. | 10.100 | 19.60 | 9.80 | 4.90 | 14.85 | 10.40 | 7.28 | | 10.150 | 19.51 | 9.75 | 4.88 | 17.478 | 10.34 | 7.24 | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Banda | | Frecuencia en Khz. | Cable coaxial de bajada.  Longitud en metros. | | | Altura en metros del suelo | | | | Angulo de radiación | | | | 1 onda | 1/2 onda | 1/4 onda | 30º | 45º | Recomen. | | HF | 20 m. | 14.000 | 14.14 | 7.07 | 3.54 | 10.71 | 7.50 | 5.25 | | 14.050 | 14.09 | 7.05 | 3.52 | 10.68 | 7.47 | 5.23 | | 14.100 | 14.04 | 7.02 | 3.51 | 10.64 | 7.45 | 5.21 | | 14.150 | 13.99 | 7.00 | 3.50 | 10.60 | 7.42 | 5.19 | | 14.200 | 13.94 | 6.97 | 3.49 | 10.56 | 7.39 | 5.18 | | 14.250 | 13.89 | 6.95 | 3.47 | 10.53 | 7.37 | 5.16 | | 14.300 | 13.85 | 6.92 | 3.46 | 10.49 | 7.34 | 5.14 | | 14.350 | 13.80 | 6.90 | 3.45 | 10.45 | 7.32 | 5.12 | | 14.400 | 13.75 | 6.87 | 3.44 | 10.42 | 7.29 | 5.10 | |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Banda | | Frecuencia en Khz. | Cable coaxial de bajada.  Longitud en metros. | | | Altura en metros del suelo | | | | Angulo de radiación | | | | 1 onda | 1/2 onda | 1/4 onda | 30º | 45º | Recomen. | | HF | 17 m. | 18.050 | 10.97 | 5.48 | 2.74 | 8.31 | 5.82 | 4.07 | | 18.100 | 10.94 | 5.47 | 2.73 | 8.29 | 5.80 | 4.06 | | 18.150 | 10.91 | 5.45 | 2.73 | 8.26 | 5.79 | 4.05 | | 18.200 | 10.88 | 5.44 | 2.72 | 8.24 | 5.77 | 4.04 | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Banda | | Frecuencia en Khz. | Cable coaxial de bajada.  Longitud en metros. | | | Altura en metros del suelo | | | | Angulo de radiación | | | | 1 onda | 1/2 onda | 1/4 onda | 30º | 45º | Recomen. | | HF | 15 m. | 21.000 | 9.43 | 4.71 | 2.36 | 7.14 | 5.00 | 3.50 | | 21.050 | 9.41 | 4.70 | 2.35 | 7.13 | 4.99 | 3.49 | | 21.100 | 9.38 | 4.69 | 2.35 | 7.11 | 4.98 | 3.48 | | 21.150 | 9.36 | 4.68 | 2.34 | 7.09 | 4.96 | 3.48 | | 21.200 | 9.34 | 4.67 | 2.33 | 7.08 | 4.95 | 3.47 | | 21.250 | 9.32 | 4.66 | 2.33 | 7.06 | 4.94 | 3.46 | | 21.300 | 9.30 | 4.65 | 2.32 | 7.04 | 4.93 | 3.45 | | 21.350 | 9.27 | 4.64 | 2.32 | 7.03 | 4.92 | 3.44 | | 21.400 | 9.25 | 4.63 | 2.31 | 7.01 | 4.91 | 3.43 | | 21.450 | 9.23 | 4.62 | 2.31 | 6.99 | 4.90 | 3.43 | |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Banda | | Frecuencia en Khz. | Cable coaxial de bajada.  Longitud en metros. | | | Altura en metros del suelo | | | | Angulo de radiación | | | | 1 onda | 1/2 onda | 1/4 onda | 30º | 45º | Recomen. | | HF | 12 m. | 24.800 | 7.98 | 3.99 | 2.00 | 6.05 | 4.23 | 2.96 | | 24.900 | 7.95 | 3.98 | 1.99 | 6.02 | 4.22 | 2.95 | | 25.000 | 7.92 | 3.96 | 1.98 | 6.00 | 4.20 | 2.94 | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Banda | | Frecuencia en Khz. | Cable coaxial de bajada.  Longitud en metros. | | | Altura en metros del suelo | | | | Angulo de radiación | | | | 1 onda | 1/2 onda | 1/4 onda | 30º | 45º | Recomen. | | HF | 10 m. | 28.000 | 7.07 | 3.54 | 1.77 | 5.36 | 3.75 | 2.62 | | 28.250 | 7.01 | 3.50 | 1.75 | 5.31 | 3.72 | 2.60 | | 28.500 | 6.95 | 3.47 | 1.74 | 5.26 | 3.68 | 2.58 | | 28.750 | 6.89 | 3.44 | 1.72 | 5.22 | 3.65 | 2.56 | | 29.000 | 6.83 | 3.41 | 1.71 | 5.17 | 3.62 | 2.53 | | 29.250 | 6.77 | 3.38 | 1.69 | 5.13 | 3.59 | 2.51 | | 29.500 | 6.71 | 3.36 | 1.68 | 5.08 | 3.56 | 2.49 | | 29.750 | 6.66 | 3.33 | 1.66 | 5.04 | 3.53 | 2.47 | | 30.000 | 6.61 | 3.30 | 1.65 | 5.00 | 3.50 | 2.45 | |

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