

A Shortened Multi Band End Fed Half Wave Efhw Antenna

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GOKYA A shortened multiband antenna, about 23m long, for 80m-10m that offers low SWR (1.3:1) on 80m and 40m, and below 3:1 on 20, 15 and 10m. The antenna has a full 300kHz bandwidth on 80m between 3:1 SWR points. But performance is down about 8-12db on a dipole on 80m. A shortened multi-band End-Fed Half Wave (EFHW) antenna ...

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EFHW 49:1 unun 80 / 40 / 20 / 15 / 10 m 300W Short with coil. A short HWEF with a 49:1 unun and a loading coil situated towards the end of the wire making this antenna 66 feet / 20 meters long + 6 foot of end tuning wire for the 80 meter band makes this antenna a superb choice for 80 / 40 / 20 / 15 and 10 meter bands. Wire Antennas UK - HF Wire Antennas for Ham Radio ... This is a 200 Watt PEP step up transformer for end fed full and half wave antennas without radials, designed as a 200 Watt PEP upgrade by PA0EJH for the original Par Electronics designed 25 Watt HF endfedz multiband end fed antenna. ... There is also a 5 band version with approx. 20.35m wire followed by a 110 - 120uH coil (about 260 turns 1

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CM End fed multi-band using a single coil to adjust resonance CM CE SY L1=2.0 'Length from start to coil SY Lcoil=0.03 'Length of coil SY L2=39.21 'Length of whole antenna SY L=4.45e-6 'Coil inductance (4.45e-6) SY EndHeight=1.0 'Height of ends above ground SY ApexHeight=4.0 'Height of apex above ground SY PoleX=sqrt((L2/2)^2-(ApexHeight-EndHeight)^2) 'X coord of support pole SY Theta=atan((ApexHeight-EndHeight)/PoleX) 'Angle antenna makes with EndHeight plane SY CoilSX=L1*cos ... Multiband End-fed 80-10m antenna | VK3IL Blog

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The Short Dipole For Multi-Band Use. By the way, some dipoles are designed to be used on more than one band of frequencies. Multi-band dipoles use "traps". Do not confuse coils and "traps". They may look alike but they do not have the same electrical characteristics. Let me point out that "traps" are even more "lossy" than simple loading coils! The Short Dipole - Coiled Down To Fit

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However, we can reduce the space needed to a quarter wavelength if we decide to use an end fed antenna. The end fed antenna is essentially half a dipole, it uses a good earth connection to complete the arrangement. Below is one example of how to build an 80 metre band long wire antenna for a house with a smaller garden. Make a 80 metre end fed antenna - Amateur radio tips and ... On the bands above 20m it will work, but the performance may be down on what you could expect from a half-wave dipole cut for each particular band. If you do get RF problems in the shack make sure you have a good earth (see earlier). End-fed wire antennas - Radio Society of Great Britain ... A Shortened Multi Band End Fed Half Wave.pdf - search pdf books free download

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 $SY \cdot L = 4.45e-6$ 'Coil inductance
 $(4.45e-6) \cdot SY \cdot EndHeight = 1.0$ 'Height of ends above ground
 $SY \cdot ApexHeight = 4.0$ 'Height of apex above ground
 $SY \cdot PoleX = \sqrt{(L2/2)^2 - (ApexHeight - EndHeight)^2}$ 'X coord of support pole
 $SY \cdot Theta = \arctan((ApexHeight - EndHeight)/PoleX)$ 'Angle antenna makes with EndHeight plane
 $SY \cdot CoilSX = L1 \cdot \cos \dots$

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