

A Shortened Multi Band End Fed Half Wave Efhw Antenna

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A shortened multi-band End-Fed Half Wave (EFHW) antenna for 80-10m Steve Nichols G0KYA 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 ...~~

A shortened multi-band End-Fed Half Wave (EFHW) antenna for 80-10m The 80-10m EFHW This is a shortened

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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.

~~G0KYA's Amateur Radio Blog: A shortened multi-band End Fed ...~~

Steve G0KYA has been playing with 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 almost 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 ...~~

If the highest bands are OK, tune the shorter wire after the first trap or coil to tune the next half wave band (40m) and so on. Use an isolator at the end and fold some of the wire back (using tie wraps) this is an easy way to make it shorter or longer.

~~Multiband half wave end fed HWEF (2012) | PA3HHO's~~

Commercially-built multi-band end-feds (e.g., ref. 2A/B) use toroidal ferrite cores, such as the FT140-43 and FT240-43. These cores have an outside diameter of 1.40 and 2.40 inch respectively, and are made of material type nr. "43" (a nickel-zinc mix).

~~Multi-band end fed — Nonstop Systems~~

5. Cut your half-wavelength antenna wire(s). To determine the wire length, use the formula $468/\text{frequency}$. Choose a frequency that's in the middle of the band you wish to operate on. For example: The 20-meter band covers 14.0 to 14.35 MHz. 14.2 is a frequency approximately in the middle of the band, which gives a length of $468/14.2 = 33$ feet.

~~How To: Make a Multiband EFHWA for Amateur Ham Radio~~

End fed half wave antenna: One method of providing a multi-band antenna for the amateur radio or ham bands is to use an end fed half wave antenna. This antenna is a half wavelength at the lowest frequency of operation, and then as the other bands on which it can be used are harmonically related, it provides a multiple number of half wavelengths.

~~Long Wire: End Fed Wire Antenna » Electronics Notes~~

EFHW 49:1unun 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

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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 originaly Par Electronics designed 25 Watt HF endfedz multiband end fed antenna. ... There is also a 5 band version with aprox. 20.35m wire followed by a 110 - 120uH coil (about 260 turns 1 mm ...

~~PD7MAA HOMEPAGE: Multiband end fed antennas 3.5 - 30MHz~~

Five easy to build HF multi-band antennas. By. DXZone - May 14, 2016. 15583. A selection of five easy and easy to build HF multiband wire antennas. Homemade Carolina Windom antenna;

~~5 Simple Multiband Wire Antennas - The DXZone~~

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=sqr((L2/2)^2-(ApexHeight-EndHeight)^2) 'X coord of support pole SY Theta=atn((ApexHeight-EndHeight)/PoleX) 'Angle antenna makes with EndHeight plane SY CoilSX=L1*cos ...

~~Multiband End fed 80-10m antenna | VK3IL Blog~~

A shortened multi-band End-Fed Half Wave (EFHW) antenna for 80-10m Steve Nichols G0KYA A shortened multiband antenna, about 23m long, for 80m-10m that offers low SWR (1.3:1) on 80m Read : A shortened multi-band End-Fed Half Wave (EFHW) antenna ... pdf book online

~~A Shortened Multi band End Fed Half Wave (EFHW) Antenna ...~~

Ten Megahertz (30m) turned out be a useful band for us, allowing CW contact after CW contact, despite poor conditions after a geomagnetic storm and a K index of five. The antenna we used was a portable multi-band end-fed half wave (EFHW) 40-10m with a 49:1 Unun. This was 9m vertically metres up a fishing pole and then about 5.8m out.

~~A portable multi band End Fed Half Wave (EFHW) antenna for ...~~

The lengths given in the chart above are those of the full overall length (total breadth) of the bottom half of the linear-loaded dipole. The dimensions include the width between the balun connections. The gap in the top section can be a few inches wide at HF (ex. the length of a normal end insulator)..

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Construction Of Linear Loaded Short Ham Antennas. I use commonly available 390 Ohm "ladder ...

~~Short Ham Antennas For HF — Ham Radio Secrets~~

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~~

Multi Band Wire HF Antennas but the following table shows the VSWR and impedance at the end of the 450 ohm feeder measured with an Autek VA1 Vector RX Analyt . Frequency. ... (even with a short length of coax) then the best compromise is to use an external 4:1 balun at the base of the antenna. More information about baluns can be found ...

~~MARTIN — G8JNJ — Multiband HF Antennas~~

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 arangement. 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 ...~~

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S0-239: Alfred did not use a rear panel, so he mounted the S0-239 on short stand-offs, simply screwing it into the breadboard using wood screws. ALTERNATIVE: Simply us a longer piece of coax, perhaps 3 ft.

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long, and solder a PL-259 onto the end. Be sure to use some kind of strain relief to prevent force from being applied on L2.

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