

Buckmaster Off-Center-Fed (OCF) Dipole - Multi-Band Antenna

4-Band does 40, 20, 10 and 6 meters, NO TUNER REQUIRED!

7-Band does 75/80, 40, 20, 17, 12, 10 and 6 meters, NO TUNER REQUIRED!

8-Band does 160, 75/80, 40, 20, 17, 12, 10 and 6 meters, tuner may be required for 160.

OVERVIEW:

* The antenna is completely assembled and no adjustments should be necessary if installed as outlined below.

* Unlike many antenna designs, the 7-Band OCF covers the ENTIRE 80/75 meter band with low SWRs. Its broad band design makes moving from band edge to band edge quick and easy. It also offers excellent DX performance across the ENTIRE 40, 20, 17, 12, 10 and 6 meter bands with low SWRs. No more fiddling with tuners. The unique broadband OFF-CENTER-FED (OCF) design makes this possible with excellent efficiency. You can really hear the weak ones.

* The antenna is unique not only because of the extremely high quality engineering, design and construction, but also because the antenna wire is something you've probably never seen before and provides AMAZING severe weather performance. It is a flexible, 65 strand, 12 Ga. PVC coated wire, with EVERY copper strand tinned to prevent corrosion. You can put this antenna up and forget it! It is actually inexpensive compared to having to replace other antennas after several winter storms. No external hardware to loosen or corrode. No external splices, connectors or soldering in the antenna wire. It survives severe weather environments with ease. It's even been to Antarctica!

* The custom designed integral 6:1 voltage balun (auto-transformer) is permanently potted and sealed in a special epoxy potting compound for moisture and corrosion free operation. The balun is internally crimped and hard soldered to a silvered beryllium copper pin, Teflon barrel, SO-239 coax connector. An integral PVC moisture drip ring around the connector shields and protects the coax connection. A heavy duty 1/4 inch stainless eyebolt with lock nut supports the center insulator/balun used with your support rope.

INSTRUCTIONS:

* These instructions are simple because there is no assembly required. Also, it does not use coils or adjustments which could complicate installation. It is completely assembled and ready to go.

* The two legs of the antenna are different lengths. 4-Band legs are 23 and 45 feet, 7-Band legs are 45 and 90 feet, and 8-Band legs are 90 and 180 feet. The antenna is fed between the two legs to an SO-239 connector on an integral 6:1 balun with 50 ohm coax. It installs as an inverted-vee (120 degree, or more angle suggested), or flat top horizontal dipole. No trimming, counterpoise or ground lead required.

* Our test conditions are: balun feed point 30 ft. high, ends at least 8 ft. high, installed as an inverted-vee configuration in "the clear". Antenna wires 180 degrees from each other (like a dipole, top view) an included angle of 120 degrees from horizontal, side view as an inverted-vee. It can be installed higher (maybe 50 feet) for even better DX performance. The feed point must be at least 24 inches offset from a metal mast or support (not required for fiberglass or PVC masts) to minimize coupling. Antenna must be in the clear of surrounding objects and other antennas, roof tops, gutters, wall fascia, radials or guy wires. The antenna should be at least 15 ft. from any of these objects. Keeping the antenna in the clear is important for minimum SWR and best performance! Attic installations not recommended due to attic house wiring and HVAC ducting, etc.

* If your installation site is not "in the clear" of surrounding objects, or if you cannot attain the proper height (30-50 ft. or more), the built-in tuner in your transceiver may be able to quickly tune the system to an acceptable SWR (check SWR before activating a tuner). However, when the antenna is installed as per the installation conditions outlined above, you will find low SWR across all bands and a tuner is not required or desirable.

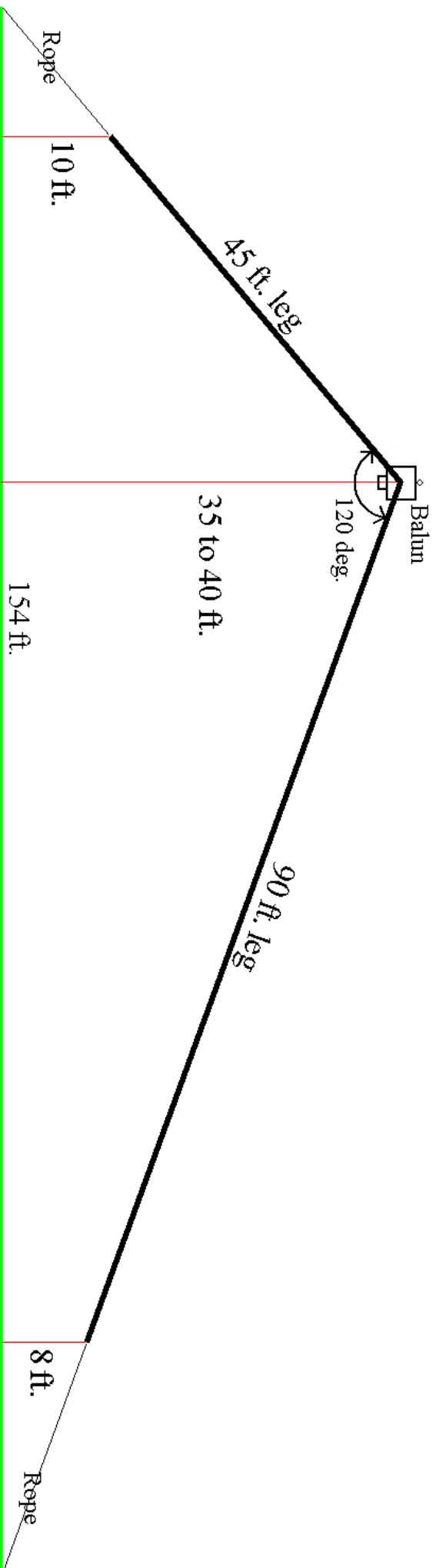
* Attach a good quality 50 ohm coaxial cable (e.g. Belden 9913, RG8X or RG213) to the SO-239 connector at the feed point of the antenna. Run the feed line at 90 degrees away from the antenna wires as possible.

* Various versions of this antenna have been providing excellent DX performance for many years. This antenna is the culmination of many of the best design features of an OCF antenna.

Thanks for being our customer. Let us hear from you about your experience.

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7-Band OCF Dipole Suggested "inverted-V" Configuration



Antenna ends 118 feet apart, overall 154 feet wide with suspension ropes