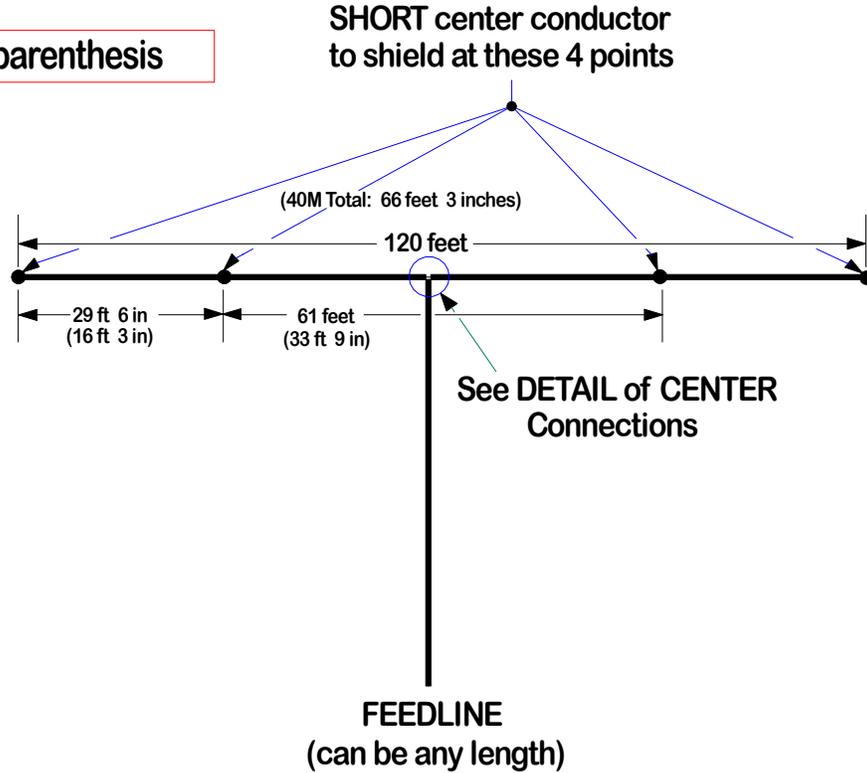


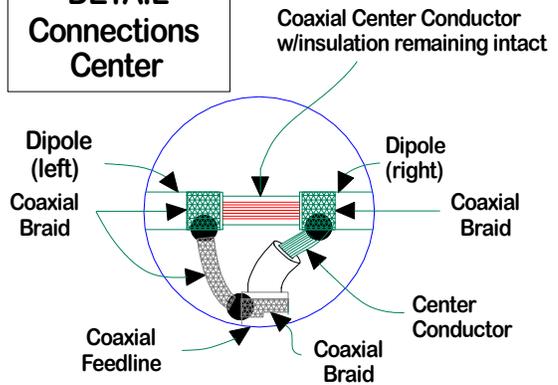
The WA4EZN DOUBLE BAZOOKA Coaxial Antenna

40M shown in parenthesis



This antenna was described on the air to me by Lucky, WA4EZN many years ago. I have enjoyed the use of several of them over the years. THIS Bazooka design is not really all that broadband... but it is a VERY quiet antenna, and does quite well out to 1000 miles even when mounted @ 15/20 ft and interspersed through the trees!

DETAIL Connections Center



1. Remove 1-1.5 inches coaxial cable's outer jacket
2. Cut and remove ~ 1/2 - 3/4 inch of braid-do NOT cut inner conductor insulation in any way!!!
3. Attach BALANCED feed using Bencher Airwound 1:1 BALUN

NOTES:

1. All RG-58 or RG-8X-incl. feedline
2. Note that feedpoint is BALANCED, so a balun should be useful in obtaining an undistorted radiation pattern.
3. The antenna WILL need pruning. Every one of these I have made, using this formula, has been LOWER in frequency than I had calculated-I suspect because I have usually mounted them as an Inverted-Vee, with the ends only about 6 ft above ground. But trimming is always better than splicing!
4. To find the REAL center freq. (lowest SWR) and 3:1 endpoints, use one of the Antenna Bridges such as the AEA. You must remove (or add) 4 EQUAL PARTS EACH TIME you make a pruning change.
5. Determine ACTUAL center freq. then calculate the corresponding EFFECTIVE length. Now, since you already calculated the INTENDED length, the DIFFERENCE is how much you add or remove (effective minus intended). Take that amount, divide it by 4 (to distribute the change equally) and apply that amount to each joint. Add or remove EQUALLY on either side of the joint, which distributes the amount of the correction equally!
6. Retest until correct-or at least reasonable SWR is obtained.

AFTER final tuning:

6. Sealing ALL joints: use a layer of Coax-Seal or those great 3-M Sealing patches, followed by complete encapsulation in epoxy. You can use this method to also encapsulate a suitable eyebolt for the end-support line.

75 Meters: (3900 kHz)

$T_L = 120$ feet

- a. Cut 1 pc. 61 ft long
- b. Cut 2 pcs. 29 ft. 6 in. each

40 Meters: (7060 kHz)

$T_L = 66$ ft 3 in

- a. Cut 1 pc. 33 ft 9 in long
- b. Cut 2 pcs. 16 ft 3 in long

TITLE: The WA4EZN
DOUBLE BAZOOKA
Coaxial Antenna

FILENAME: BAZOOKA.SKF SECTION: HRIANTENNAS DATE: 94 07 01

E.T. TANTON

PAGE NR:
1 of 1
CONNECTIVE
COUNT:
n/a
VERSION:
1.3

N4XY