Figure 1: Properly installed, balanced termination, folded dipole (BTFD) is omni-directional over most of its operating range.

NOTE: * Lengths of “E” & “F”, this dimension maintains the antenna up-right, with the termination on top. Adjust the spacer to accomplish this dimension. In the above drawing; Right side of antenna is the TOP (upper) and the Left side is the lower (bottom) of the antenna. The illustration is drawn flat for clarity of dimensions and proportions.

This BUXCOMM (330LSTFD) antenna is a design modification of the T2FD type antenna. The 330LSTFD design it main change made to the heart of this new design. There is a small loss in gain due to the shorter design, approximately 1.4 dBi, less than our 1606FD, T2FD type antennas. We combined a 500 ohm BTR with a matching BALUN to improve the efficiency of our 330LSTFD. This sets the BUXCOMM 330LSTFD antenna apart from all other wire type, and flat-top, antennas.

A valuable feature of the 330LSTFD allows it to be installed in an open space, as low as 12 feet above ground, or as high as 35 feet above ground. Using a wide-band BALUN to develop the wideband to impedance ratio we have made efficient use of the power that is applied, to give us the maximum transfer of RF to and from the 330LSTFD.

Thus with the design of this new Antenna/BALUN/BTR combination, we now have an antenna system that wideband performance, in a smaller area. Another one of our best, tuner-free antennas.

Our BUXCOMM 330LSTFD is听听听说Rated for the Amateur Radio at 250 watts SSB, or 150 watts RMS/FSK/RTTY/AM/CW. Operates without a tuner on, ten (10) HF Amateur Radio (HAM) Bands; 80m, 75m, 60m, 40m, 30m, 20m, 17m, 15m, 12m, and 10m meters.

The 330LSTFD is factory assembled and sold only as an assembled unit. Each BUXCOMM 330LSTFD is carefully assembled and tested to our exact design criterion.

WEAR PROTECTIVE EYE-WEAR AND GLOVES WHEN BUILDING THIS ANTENNA: Do not work alone, and DO NOT install near electrical wires. Observe all safety rules.

NOTE: *330LSTFD, we have removed spacers for shipping. Spacers are easily replaced for installation. See the following page for spacer attaching procedure. A spare parts kit is included with the BUXCOMM model 330LSTFD antenna, it includes: Tye Wraps, extra chinch-pins, noes, and more.
Specifications:
- Center Insulator & balanced termination resistor.
- End insulators
- Fiber Glass spreaders

PLEASE NOTE: The 330LSTFD Folded Dipole uses approximately 100 ft of wire. WEAR PROTECTIVE EYE-WEAR AND GLOVES WHEN BUILDING THIS ANTENNA: Do not work alone, and DO NOT install near electrical wires. Observe all safety rules.

With this kit of parts, there are six (6) fiber-glass spacers approximately 16 inches long. Space them accordingly, with the first one approximately 18 inches from the ends, three (3) on each side of the center feed-point. Insert them as shown. The third spacer should be near the center insulator/BALUN and termination. The Nocks are used to form a saddle for the wire (wire not supplied) of the 330LSTFD.

These antennas are built robust for harse environments, and handle hostile installations. This alone makes the BUXCOMM 1606FD and 1608FD the ideal choice for Amateur, Military, MARS, CAP, and ARES/RACES installations and related emergency operations centers (EOC). Installation is easy, and straight-forward, which enables it to be installed as an inverted Vee, flat top, or sloped.

INSTALLATION: These installation instructions also apply to the BUXCOMM 330LSTFD assembled
1. Use supports that allow the best possible height, between 25 and 40 feet. Do not install near power lines.
2. Unpack the antenna. Lay it on the ground, the two rolls separated and the components lying at the center.
3. Use BUX316 UV resistant rope to support the antenna ends.
4. Unroll the antenna. Do not twist, or kink the antenna while keeping the antenna stretched as you unroll it.
5. Install the rope as shown in the diagram above.
6. At each end, keep the upper wire about 2 inches shorter than the lower end wire. See NOTE *, Figure 1. This allows the antenna to be suspended in the correct attitude and vertical position.
7. Connect the coax to the SO239 on the BALUN, remembering to avoid twists, and kinks.
8. Use an adequate amount of coax to reach your station equipment or transceiver.

When properly constructed and installed, the BUXCOMM 330LSTFD offers a fully automatic, low-noise, low SWR operation over the entire HF band, 80 meters through 10 meters; Yes, it includes the new 60 meter band. It will also propagate NVIS, local, medium or long distance. Try that with a vertical!

About the Full sized BUXCOMM model 1606FD/T2FD:
It doesn’t matter if you are Military, MARS, CAP, ARES, RACES, or other operations outside the HAM bands, the BUXCOMM model 1606FD antenna does it all, “in band” or “out of HAM band” (MARS, CAP, or Military) operating. For all Amateurs, it satisfies a complex antenna situation by solving a simple, single HF antenna installation with outstanding performance. Use one antenna instead of several. For the HAM who lives in a restricted community, any antenna less than 90 feet in length and can perform well when installed under 20 feet above ground, is a blessing unto itself. This unique antenna design covers a continuous frequency range from 1.5 to 35 MHz, with a VSWR of less than 2:1 across HF bands 160 through 10 meters. No antenna tuner is required. Since the 1606FD is folded on itself, it provides a degree of EMI rejection greater than that of other wire antennas and conventional dipoles. This feature makes the 1606FD a low noise receiving antenna. This is why so many professional SWL’ers use the 1606FD over other similar antennas, it’s quiet.

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