ISOPOLE™ Antennas by AEA

The IsoPole has built a strong reputation for quality in design and superior performance. Patented IsoPole conical sleeve decouplers offer many design advantages.

All IsoPole antennas yield the **maximum gain attainable** for their respective lengths and a zero degree angle of radiation. Exceptional decoupling results in simple tuning and a significant reduction in TVI potential. Cones offer greater efficiency over obsolete radials which radiate in the horizontal plane. The IsoPole is also more esthetically pleasing to the eye than older obsolete ground plane designs.

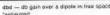
The IsoPoles have the broadest frequency coverage of any comparable VHF base station antenna. This means no loss of power output from one end of the band to the other when used with SWR protected solid state transceivers. Typical SWR is 1.4 to 1, or better, across the entire band!

A standard Amphenol 50 ohm S0-239 connector is recessed within the base sleeve of all VHF IsoPoles and is fully weather protected. With the factory-tuned matching network located at this connector, we are able to cancel out the impedance lump effects of this so called "UHF" connector. The UHF IsoPoles use type "N" connectors. Additionally, all IsoPole antennas are D.C. grounded. With the IsoPole, you will not experience aggravating changes in SWR with changes in weather. The impedance matching network is weather sealed and designed for maximum legal power. A new insulating material offers superb strength and dielectric properties, plus excellent long-term ultra-violet resistance. All mounting hardware is stainless steel. The decoupling cones and radiating elements are made of corrosion resistant aluminum alloys. The aerodynamic cones are the only appreciable wind load and are attached directly to the support (a standard TV mast which is **not supplied**). The IsoPole has even survived 140 mph storms unscathed. You can buy a mast from your local hardware or Radio Shack store, for less than the shipping cost of a single 10' mast!

Operating on MARS or CAP? The IsoPole and IsoPole Jr. antennas will typically operate at least ±2 MHz outside the respective ham band without retuning. However, by simple length adjustment, the IsoPoles can be tuned over a wider range outside the ham bands as shown in the SWR charts.

The IsoPole antennas are all impedance matched in the factory so that no field tuning is required. Instead of the typical 25-40 screws, the IsoPole has no more than 5 stainless steel screws to fasten, thereby significantly decreasing the time necessary for assembly and reducing the chance for errors.

ISOPOLE™ SPECIFICATIONS						
MODEL Frequency Coverage (MHz)	144 SR 185-160	144 JR 135-155 > 10 MHz ® 146 MHz	220 SR 210-230 > 15 MHz @ 220 MHz	230 JR 210-230 > 12 MHz @ 220 MHr	446 415-465 > 22 MHz @ 435 MHz	
2:1 VSWR bandwidth Impedance	20°U" > 15 MHT © 148 MHS	50.AL	50.0	50 A	50.m.	
Power Rating Gain	1 kw a obd	1 kw 0 dhd	1 kw 3 dbd	1 kw 0 dbd	3 dbd	
Length of rationing elements Wind Area!	(25.5" (3.2m) (1.00, 11.	76" (1.9m) < 75 sq. ft.	79.25" (2m) <.75 sq. ft.	51.75" (1.3m) < .6 sq. H.	46" (1.2m) <.20 sq 11	
Maximum Mast OD Maximum Mast Length**	11/4" (32mm) 8 H. (2,4m)	1%" (32mm) 3.ft. (1m)	114." (32mm) 61/s ft. (1.6m)	114" (32mm) 28" (.7m)	1%" (32mm) 6" (150mm)	
Weight (shipping)	5 lbs	2 lbs.	4 bs.	1% its	2.5 lbs.	



"estimated"
"mast not included

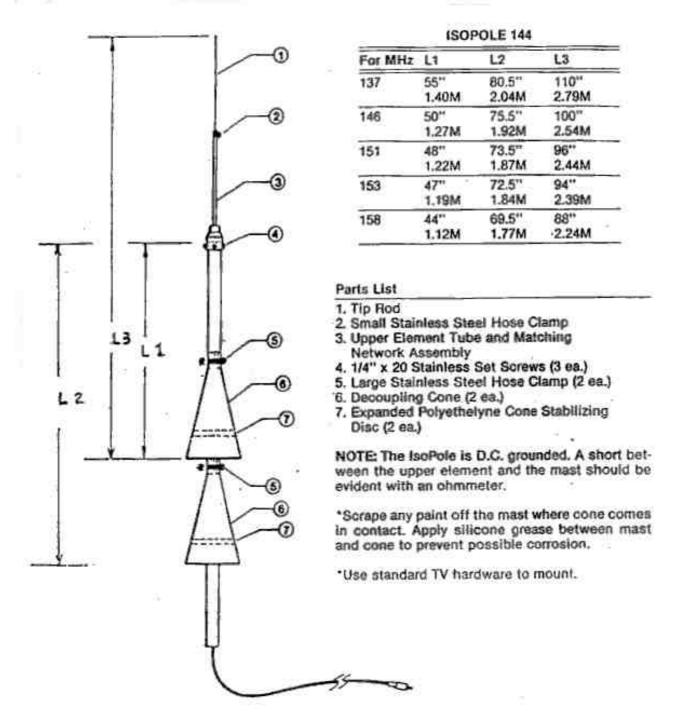
Specifications subject to change without notice or obligation.



ISO-440



ISO-144J



Equipment Needed: Mast, recommend use of low cost steel 1 1/2" TV mast available at most hardware, TV shops or electronic stores, e.g., Radio Shack at less cost than shipping a single piece. Mast must be a minimum of 8' long for 144 MHz (no maximum length). Minimum inside diameter is 0.75" and maximum outside diameter is 1.275".

Tools Needed: Accurate measuring stick or tape; Flat bladed screw driver; nut drivers, 1/4" and 5/16"; flat file (for removing paint from mast); silicone grease or petroleum jelly.