

The SPECTRAL IsoPole is a Hi-Quality product and has been designed to offer the maximum performance for the application required. It must be mounted in a metal mast of at least 22 mm (7/8") of internal diameter, to pass a PL-259 connector, and no more than 32 mm (1.25") of external diameter. The minimum mast length is 3 meter (10 feet) for 135 to 160 Mhz.

### INSTRUCTIONS ASSEMBLY (Use gloves to avoid metal cuts)

1-Insert the lower decoupling cone (the one with the brand name) into the mast measuring the distance **h2** from the top of the mast. Insert the polyethylene disc into the cone from the bottom of the mast to be centered. Adjust the clamp. Remove paint, oxid or anodized (if aluminum) and apply silicon grease to insure a good electrical contact between the mast and the decoupling cones.

2-Insert the polyethylene disc and after insert the cone and repeat the operation as in the lower cone measuring the distance **h1** from the top of the mast. Both cones must be placed with sheet metal unions symmetrically.

3-Pass the transmission line RG-8 or RG-213 with the PL-259 through the mast and attach to the recessed connector of upper radiator tightening with hands.

4-Place the upper radiator base sleeve into the mast and tighten the three screw set. Insert the rod into the upper radiator and measure the distance **h3** from the base of the lower decoupling cone and secure the joint with the small clamp provided

**NOTE:** The Spectral Isopole is easy to tune simply by following the dimensions provided with the tuning chart. If an SWR meter is available and it is desired to tune to the exact frequency, simply extend the dimension **h3** between the upper radiator and the upper cone equally to decrease the frequency of resonance, and decrease the distance **h3** to increase the frequency of resonance. The lower cone **Must Conserve Always** the same distance to the upper cone: 65cm or 25-1/2 in.

### SPECIAL RECOMMENDATIONS

- \*Never turn the upper radiator. Internal parts can be broken.
- \*Never use pliers or force tools to adjust the connector. This procedure must be performed with hands.
- \*Never hold the antenna with hands or ropes taking it from the upper radiator. Perform this operation taking it from the base of the connector or from under the clamp of the upper cone.
- \*Adjust the decoupling cones clamps with a reasonable torque. A poor electrical contact between the mast and the cones can cause noise and poor performance of the antenna

Technical support on line: [tech@isopole.com](mailto:tech@isopole.com)

### WARNING

\* The antenna should be mounted so as clear surrounding objects as much as possible, a high location is desirable. Be sure to mount the antenna so it will neither touch or be able to fall with power wiring.

Visit our website: [www.isopole.com](http://www.isopole.com) or contact us: [spectral@isopole.com](mailto:spectral@isopole.com)

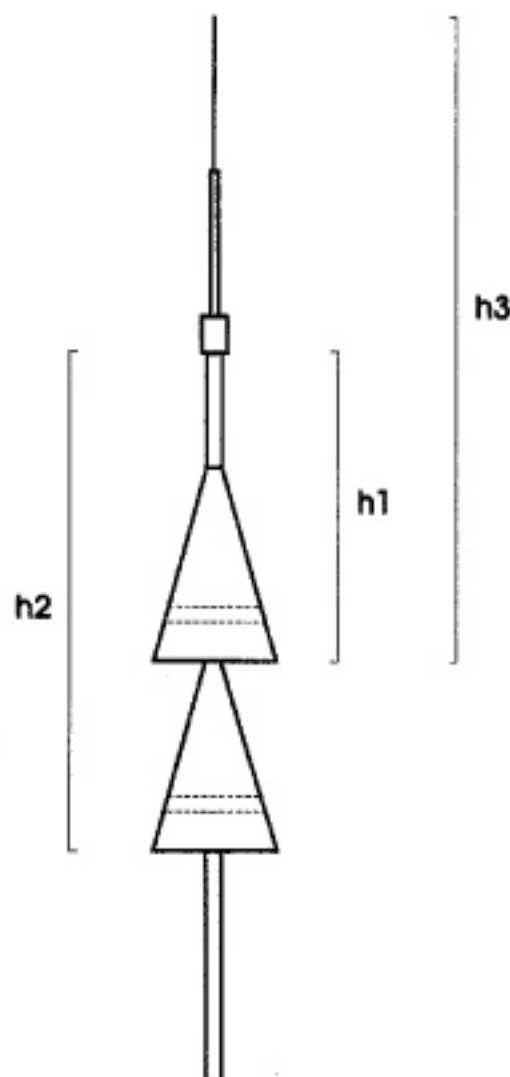
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### Frequency Chart

Mhz	h1	h2	h3
137	1,40	2,05	2,80
*	55	80-3/4	110
146	1,27	1,92	2,54
*	50	75-1/2	100
151	1,22	1,87	2,44
*	48	73-1/2	96
153	1,19	1,84	2,38
*	46-1/2	72-3/8	93-3/4
158	1,12	1,77	2,24
*	44	69-5/8	88

Dimensions expressed in meters

\*Dimensions expressed in inches



Specification or changes without previous notice or obligations.

2000 SPECTRAL