

# FOLDED DIPOLE ANTENNAS 138-825 MHz

## MOUNTING INSTRUCTIONS

### WARNING:

For your safety, do not install any antenna near power lines, and carefully follow all installation instructions. If the antenna falls toward or contacts any overhead wires, immediately let go and stay away. Call the utility company for assistance. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

### PARTS LIST (for single dipole element):

(1)	Dipole and clamp set	(1)	1/4"-20 hex bolt	(1)	1/4"-20 lock nut
(2)	3/8" x 3.5" hex bolt	(2)	3/8" hex nut	(2)	3/8" split lock washer
(1)	Anti-seize compound				

### ASSEMBLY INSTRUCTIONS

1. Remove components from shipping box and lay out the dipole and cable assemblies, ideally in a large, sheltered area. Arrange the assemblies in order as cable lengths allow.
2. Refer to the diagram. Slide the boom over the dipole hub, and align the holes in the boom with the holes in the hub. Apply anti-seize compound to the bolt end, then install and tighten the 1/4"-20 bolt and lock nut. Press the end plug located on the dipole feed cable into the end of the boom until it is firmly seated.
3. Refer to the appropriate Dipole Pattern Adjustment sheet for the frequency range of the antenna. Using the chart titled "Dipole Mounting and Mast Specifications", measure and mark the support structure for the proper dipole element spacing. Mount each dipole assembly to the mast with clamps as shown in the diagram. Locate the drain hole on each element, and be certain it is pointing down.
4. Refer to the chart titled "Mast to Dipole Dimensions", and determine the proper horizontal element spacing from the mast or support structure for the desired coverage pattern. **At least 1/2 inch of the boom should be visible on the back side of the clamps.**
5. Apply anti-seize compound to the bolt ends, then secure the dipole assemblies to the support with the supplied 3/8" nuts, washers and bolts, while adjusting each dipole position on the support. Tighten each nut until the lock washer is flat, then add 1/2 turn. Be sure to properly seal the input connector with waterproof tape or other sealing material. See Telewave TWDS-0502 for a recommended method of connector sealing.
6. Secure the cable assembly to the support.

