

DIPOLE-LO/DIPOLE-HI EXTERNAL MOUNT ANTENNA 25-100 Mhz/108-222 Mhz

Features

- Available in 25-100 Mhz or 108-222 Mhz
- Aircraft aluminum construction
- PL-259 Coax connector at antenna base
- Antenna is cut to user frequency
- Lightning protection is provided by gap inside the insulator
- Operates with any transmitter requiring a 50 Ohm load.

Additional Material Required

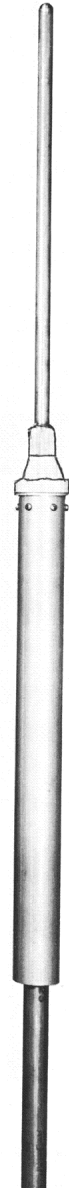
1. Support pipe, threaded on one end. Minimum length is 5 ft. (dipole lo) or 3.5 ft. (dipole hi).
2. Lightning arrestor enclosure for LAC-2, ground wire and ground rod.
3. Two lengths of RG-8/U coaxial cable with PL-259 connectors. (First length is from antenna to lightning arrestor, second length is from arrestor to transmitter or receiver.) AUHF to BNC adapter is required for some transmitters.
4. Antenna support.
5. Noalox or equivalent electrical grease.
6. Electrical conduit, clamps, and miscellaneous hardware based on site requirements.

Product Information

The Dipole-Lo and Dipole-Hi antennas are unity gain half wave dipole antennas. They are constructed of aircraft aluminum to help prevent corrosion.

The antennas are available in 50-100 Mhz range and 108-174 Mhz range. Antenna can be mounted on poles, roofs, or walls with the proper field-supplied mounting hardware. The antenna must be installed with proper grounding for lightning protection.

Please see reverse for mounting instructions.



Specification

Support Type

- Dipole-Lo
Standard: 1.25 in. pipe by 5 ft. min.
Optional: ¾ in. pipe and 1 in. pipe
- Dipole-Hi
Standard: 1.25 in. pipe by 3.5 ft. min.
Optional: ¾ in. pipe and 1 in. pipe

Skirt

Standard: 2 5/8 in.
Optional: 2 in. and 2 ¼ in.

Power Output: up to 500 Watts

Output Impedance: 50 Ohms

Tubing

- Dipole-Lo
Standard: vertical brass ¾ in. diameter tube, capped
Optional: 1 1/16 in. and 5/8 diameter tube
- Dipole-Hi
Standard: vertical ½ in. diameter rod
Optional: 3/8 in. rod

Weight

- Dipole-Lo: approximately 4-5 ½ lbs.
- Dipole-Hi: approximately 1 ½ -2 lbs.

Polarity: vertical

Installation Information

Building Mount Installation

1. At the antenna site, mount the selected antenna support to the building.
2. Connect the lightning arrestor to the building. Run the ground wire down to the nearest earth ground per electrical code.
3. Slide the six-foot length of RG8/4 through the support pipe. Connect the PL-259 connector from the threaded end of the pipe to the base of the antenna. Connect the pipe to the base of the antenna. Use care not to twist the cable.
4. Slide the skirt to the antenna by using the six stainless steel screws and lock washers supplied.
5. Connect the skirt to the antenna by using the six stainless steel screws and lock washers supplied.
6. Place the antenna into the support and tighten mounting hardware.
7. Connect the cable from antenna to either side of the lightning arrestor. Connect the second cable to the other side of the lightning arrestor.
8. Connect the other end of the second cable to the transmitter or receiver.

Street Box Pole Antenna Mount

1. Aluminum street box pole must be already installed.
2. Slide the 19 foot length of RG8/4 through the support pipe. Connect the PL-259 connectors to the base of the antenna. Connect the pipe to the base of the antenna. Use care not to twist the cable.
3. Slide the skirt of the antenna over the cable and pipe. Apply electrical grease onto the base of the antenna where the skirt will connect.
4. Connect the skirt to the antenna by using the screws and lock washers supplied.
5. Place the antenna into the fitting on top of the pole and screw the assembly down.
6. Connect the other end of the coax cable from transmitter antenna output connector.
7. Connect the pole to a suitable earth ground as per electrical code.