α ALPHA ANTENNA®

HF VHF Military Vertical Dipole (Duopole)

Description

This VHF HF Military Vertical Dipole Antenna provides 1500-miles of Digital mode coverage from 7MHz to 30MHz and 60-miles of all-mode coverage for 2M-40M and 220MHz, which is 36 inches x 4 inches x 1.5 inches in size and weighs 22 ounces. Deployable with digital quantum and/or fixed/spread-spectrum equipment that uses single or simultaneous frequencies when communications are required that use Ground-wave and/or Skywave signal patterns.

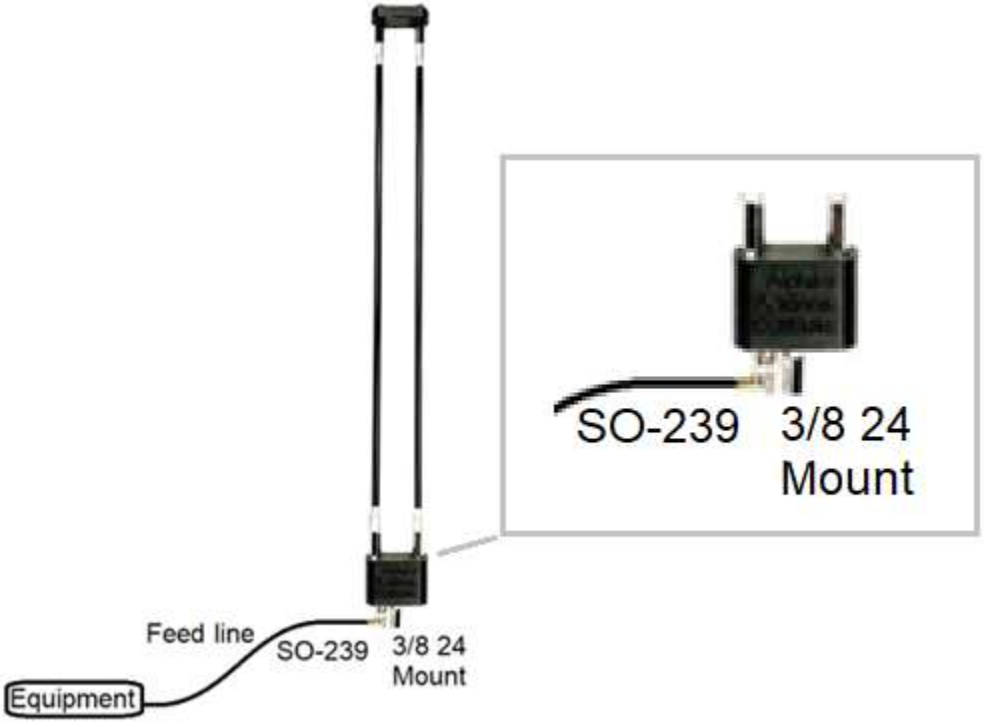
Specifications

- Digital mode 'skywave coverage' area in a radius of 1500-miles for a diameter of 3000-miles on 7MHz to 30MHz.
- All mode 'ground-wave coverage' in a radius of 60-miles (dependent upon height) for 1.8-7MHz, 7MHz-30MHz, 144-148MHz, and 220-240MHz.
- 36 inches x 4 inches x 1.5 inches in size and weighs 22 ounces.
- 120W at 25% duty cycle, 60W at 50% duty cycle, and 30W for Digital Modes.
    - Including but not limited to the MIL-STD-188 M110a digital communications mode that is rated at 25 watts continuous with bursts of 100 watts digital for up to 1 minute using the MIL-STD Data Modem Terminal (MS-DMT) and Automated Message Terminal (AMT) software applications.

Deployment

1) Mount the Duopole antenna on a Male 3/8 24 bolt that with exposed threads no longer than 19mm (.75 inches).
2) Attach a feed line to the SO-239 on the antenna and connect the other end to your tuner/equipment.

Depiction of Deployment



Support

If you have questions, please feel free to email us at alphaantenna@gmail.com