

## UHF/VHF2

### Marine and Land Based UHF/VHF Antenna

UHF/VHF2 is an omnidirectional dipole antenna covering two bands. The UHF/VHF is manufactured in premium quality materials in order to prevent galvanic corrosion. Radiating elements are made of brass.

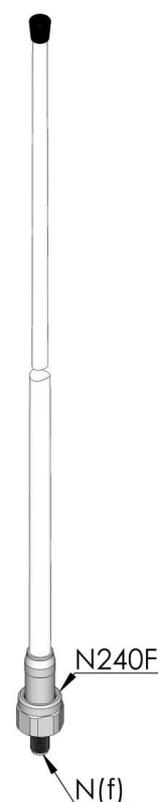
The antenna has the same rugged design as all other AC Antennas products thus it withstands harsh environmental conditions, both on sea and land. The antenna is subject for improvement at all times.

#### Electrical specifications

|                          |  |
|--------------------------|--|
| Frequency range (MHz)    | VHF:146.0-162.5; UHF:420-440                                     |
| Nominal impedance (ohm)  | 50   |
| VHF power rating (Watt). | 100  |
| Gain (dBd/Marine dB)     | 0/3  |
| VSWR                     | VHF: < 1.5:1 ; UHF (410-430): < 3.5:1;<br>UHF (430-440): < 5.0:1 |
| Polarization             | Vertical   |
| Connector                | N-female   |
| DC-shorted               | Yes  |

#### Mechanical specifications

|                                      |                            |
|--------------------------------------|----------------------------|
| Length (m/ft)                        | 1.26/4.13                  |
| Weight (kg/lbs)(excl. & incl. mount) | 0.5/1.1 & 0.6/1.3          |
| Wind rating (m/s / mph)              | 45/101                     |
| Material                             | Fibreglass                 |
| Colour                               | White polyurethane lacquer |
| Temperature range (°C/°F)            | -55 to +60 / -67 to +140   |
| Ingress Protection                   | IP66                       |



#### Mounting

N240F with 1 1/4" thread included.

Can be used with all 1"-14 TPI & 1¼-11 TPI standard AC Antennas mounting Equipment.

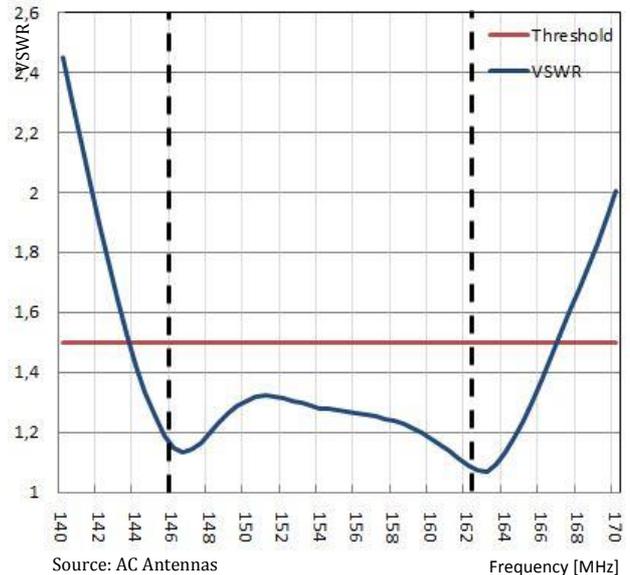
## VSWR

### VHF:

Voltage standing wave ratio is a measure of the energy lost in the coax cable/antenna connection. The figure to the right shows VSWR measurement based on the average of a significant numbers of antennas. All antennas delivered by AC Antennas are tested and a VSWR less than 1.5 is guaranteed in the specified frequency range.

### UHF:

For the UHF range 410-430MHz the VSWR is tested after the same principles as VHF and a VSWR less than 3.5 is guaranteed, along with a VSWR less than 5.0 in the frequency range 430-440MHz.



## Vertical radiation pattern

Vertical radiation pattern for the omnidirectional antenna at the center frequency. The figure shows that the antenna has 0 dB gain near the horizontal plane.

