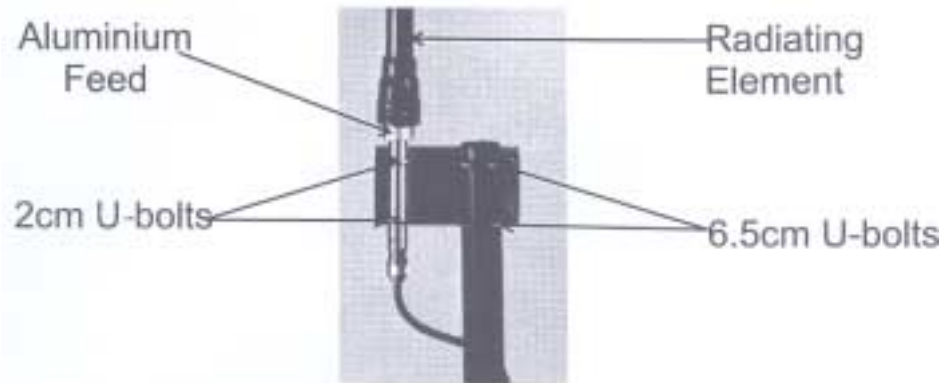


# Omni-Directional Series Site Antennas Installation Instructions



## Warranty

Benelec, (Seller) warrants to buyer that the products for a period of two years from the date of shipment will be free from defects of material and workmanship, and will be in accordance with specifications referred to herein. Seller's sole obligation under these warranties will be limited to either, at Seller's option and expense, repairing, or furnishing a replacement F.O.B. first point of shipment for the products or part thereof which Seller reasonably determines do not conform with these warranties, and Buyer's exclusive remedy of breach of any of such warranties will be enforcement of such obligations of Seller. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE AND OF ANY OTHER TYPE, WHETHER EXPRESSED OR IMPLIED. IN NO EVENT SHALL SELLER BE LIABLE FOR SEQUENTIAL DAMAGES, nor shall Seller's liability on any claims for damages arising out of or connected with the sales contract or the manufacture, sale, delivery or use of the products exceed the purchase price of the products. Any action for breach of warranty must be commenced within two years after the cause of action accrues.

## Model Include:

**029313, 029314, 029315 & 029316**

*Note: This manual may cover more than one antenna. Please use the instructions that pertain to the type that you are installing. Some instructions apply to all types. Models vary in appearance*

Thank you for choosing Benelec as your choice of communications antennas. The following will guide you to the best possible performance of your antenna of choice.

### Choosing a Mounting Location

The OD series antenna is designed to give an omni-directional pattern. In order to achieve this, the antenna should be mounted clear of any obstructions to the sides of the radiating element. If the mounting location is on the side of a building or tower, directivity is expected.

### Mounting the Antenna

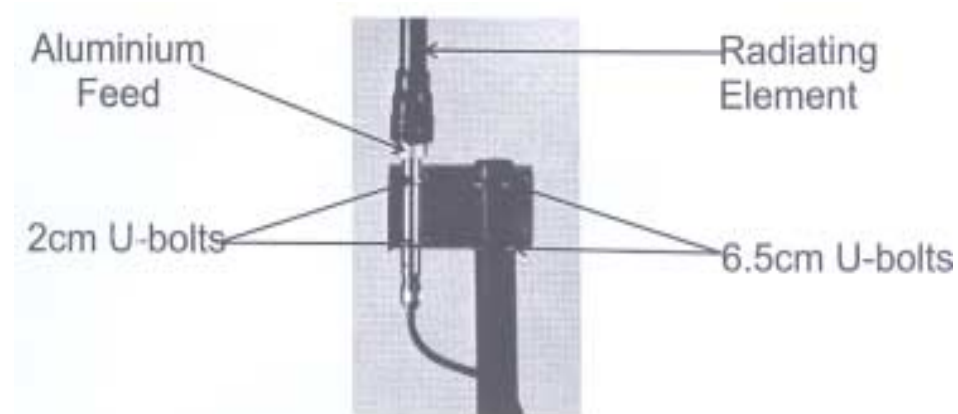
The OD Series antenna is provided with a mounting kit. This kit allows you to mount the antenna to masts up to 5cm in diameter.

The OD Series antenna is vertically polarized. Since the antenna has vertical gain, it is very important to mount in a vertical (not leaning) position for optimal performance.

To mount the kit to the antenna (See Figure) inserts both 2cm U-Bolts through holes in mounting plate. Each U-Bolt is equipped with a pair of the following: washers, primary nut and lock nut. To make installation easier, place these on the U-Bolt in the same order as described above. Next, slide the base of the antenna (aluminium feed) through the U-Bolts and tighten down.

To mount the mounting plate with the antenna attached to desired mast (See Figure) insert both 6.5cm U-Bolts through holes in mounting plate. Each U-bolt is equipped with a pair of the following: washer, primary nut and lock nut. Place the mounting plate in the desired location on the mast, attach the washers, primary nuts and lock nuts in the desired location on the mast, attach the washers, primary nuts and lock nuts in the same manner as described above and tighten.

*Note: The OD Series are NOT DC grounded antennas. It is recommended that you install lightning protection devices into your system.*



### Suggested Cable Requirements

It is recommended to use a high quality loss cable.

*Note: The higher the frequency, the higher the loss through the cable. Also, the longer the run, the higher the loss.*

The OD Series antenna terminates with a type N female connector. The mating connector to the antenna is a type N male connector. The connector on the opposite end will vary according to the type of equipment used.

After the cable is attached to the antenna, it is recommended to make sure the connections are sealed to prevent moisture and other weathering elements from effecting the performance of the antenna.

The final step is attach the required connector to mate with equipment to be used at the opposite end of the cable. Once this is complete, make the connection and your OD Series antenna is ready for use.