



Installation Instructions SEC09 Series Antennas

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1. Orientation and Polarisation

Select an installation site that enables the antenna to be orientated to provide the desired coverage area. The V and H at the end of the model number indicates the antennas are designed for vertical and horizontal polarization respectively. Ensure that all other antennas using the sector antenna are also vertically polarized.

2. Mounting Options

- Clamp to 32mm-57mm diameter masts using the U-bolts provided
- Bolt to a flat surface such as a wall or panel using suitable bolts or screws (not provided). If required the V-blocks can be removed by drilling out the attaching rivets. The mounting centres are 65mm horizontally and 415mm/740mm for the H and V models respectively. Shims may be used to compensate for non-vertical mounting surfaces.

3. Beam Tilt

- Standard antennas are supplied with 0° electronic beam tilt. For all mounting options ensure that the antennas are installed vertically to achieve optimum sector coverage. Please note that side-lobes and gain from the antenna outside the -3dB beam width are usually sufficient to provide good coverage close in.
- For surface mounting, additional beam tilt can be obtained by fitting shims under the appropriate mounting tabs to obtain required alignment.

4. Installation

- Connect a 50ohm transmission line with N-male connector to the antenna base.
- Use two overlapping layers of self-vulcanising tape to moisture-proof the coax connector, followed by two overlapping layers of electrical tape to provide UV-protection.
- Leave a strain relief loop in the transmission line before fixing the line at regular intervals. This will avoid cable stretch and strain on the end connector.
- Re-check antenna orientation before tightening all mountings securely.

