

# Installation

## Meander Collinear Series Antennas

Thank you for choosing RFI's industry leading Low PIM collinear product.

RFI's patented meander collinear series utilize a flexible PCB based radiating element housed in a parallel fiberglass radome. With every element placed physically and electrically at a theoretically perfect point, gain is maximized and side lobes reduced dramatically.

When properly installed the antenna will give you many years of trouble free performance, however, we recommend that as a minimum you consider the following aspects prior to beginning installation.

### Location & Mounting

The location of the antenna is very important. Ensure the area surrounding the proposed location is clear of objects such as other antennas, trees or power lines which may affect the antenna's performance and efficiency. It is also vital that you ensure the support structure and mounting arrangement is adequate to support the antenna under all anticipated environmental conditions. The choice of appropriate mounting hardware is also important for both minimizing corrosion and maintaining site intermodulation performance.

**Invert Mount Option:** When mounting "inverted" remove the drain hole plug (screw) from the top cap and refit into tapped hole in the base of the connector block. Refer to Warning label attached to the antenna.

### System Grounding

Direct grounding of the antenna, mast and tower via a good electrical connection to a well designed grounding system is essential. This will protect your antenna system, reduce the damage that can occur during lightning strikes and reduce precipitation noise. Further protection of your radio equipment through a dc blocked coaxial protector (such as a PolyPhaser UHF50HD) will assist in ensuring the performance longevity of your communications system.

### Antenna Orientation

These omni-directional antennas require antenna-to-mast spacing to be maximized (bearing in mind the torque produced due to windloading) when side mounting, to maintain the omni-directional pattern.

**Note: Antenna installation should be undertaken by suitably qualified / experienced personnel. You could be killed if this antenna comes near electric power wires. Do not block antenna drain holes during installation.**

