

Installation

COL51 Series 130-174MHz

COL53 Series 130-174MHz

COL54 Series 145-174MHz

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.

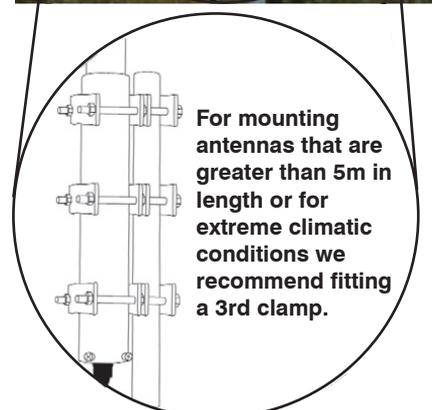
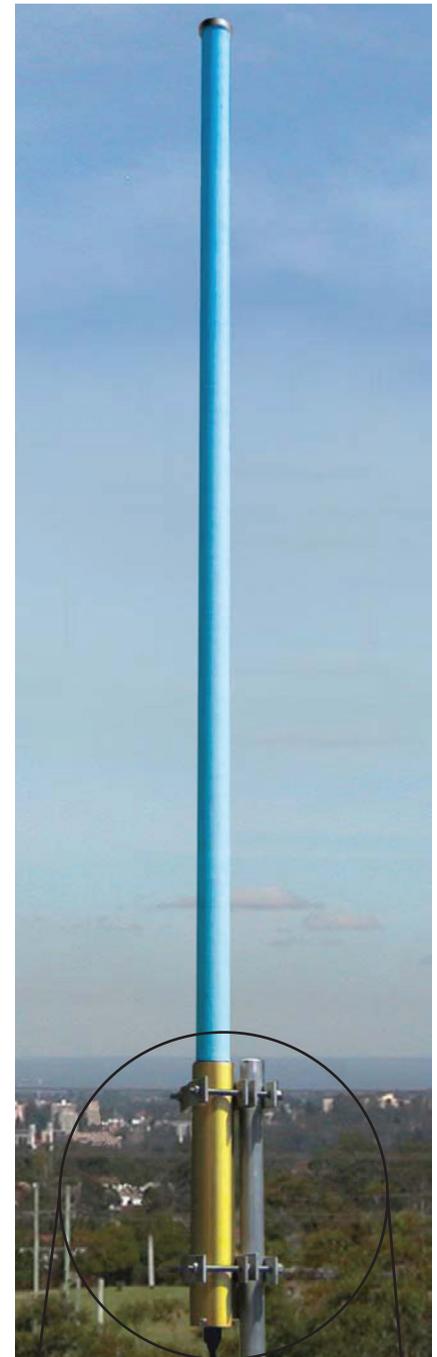
System Grounding

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 VHF50D-PGR) 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 omnidirectional 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.



For mounting antennas that are greater than 5m in length or for extreme climatic conditions we recommend fitting a 3rd clamp.



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