Installation

CD50-65 and CD51-65 Series Mopole™ Antenna

380-440 MHz
For use with RG58C/U cable only

The CD50 and CD51 Series Antenna is an end fed dipole (Mopole) which is ground plane independent. The antenna has a high impedance matching circuit which is enclosed in a high impact ABS housing. The CD50 uses a tapered 17-7PH stainless steel radiating section and the CD51 a PVC enclosed copper braid element. In the feed design the terminated RG58 forms part of the high impedance matching circuit and no D.C. continuity exists between the centre conductor of the cable and the radiating element and a short exists from the cable shield to the radiating element.

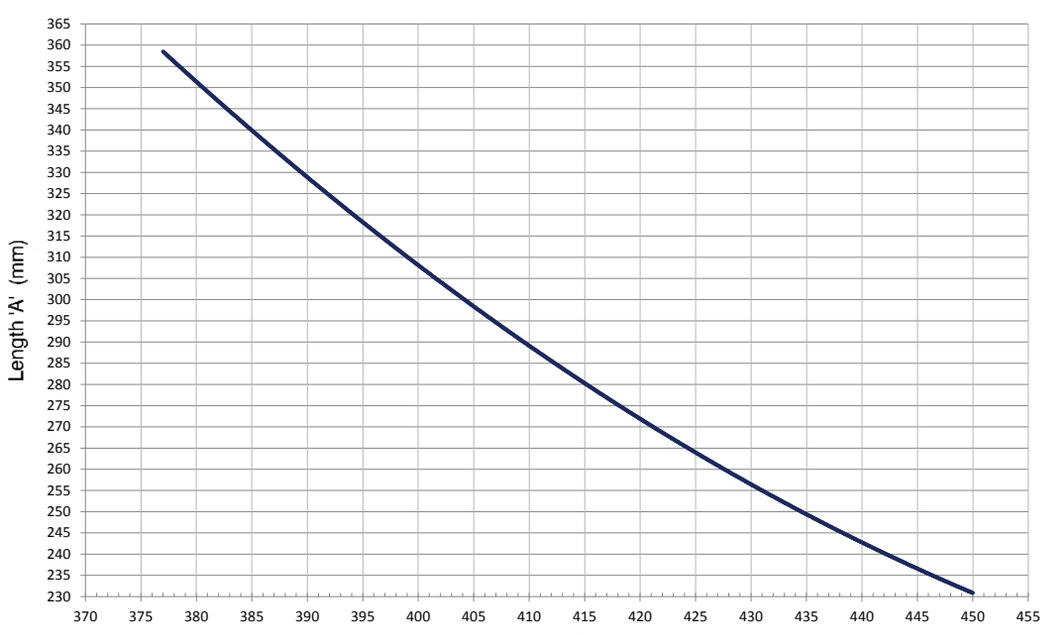
NOTE: Although the antennas when tuned track very closely with the cutting chart provided, this chart should be used as a guide only and the antenna should be turned for the desired operational band centre.

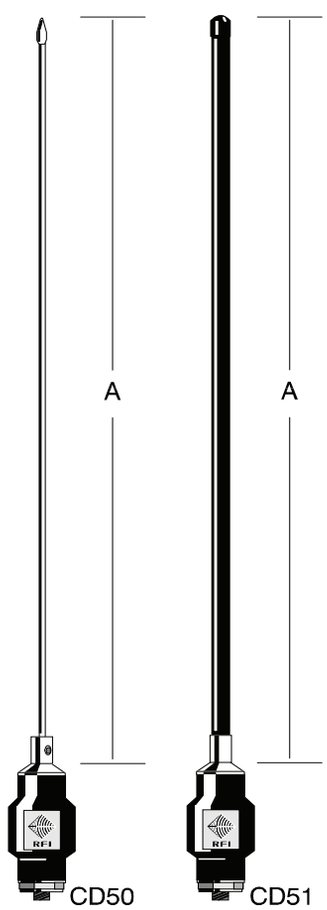
To Terminate The Antenna:

1. Remove approximately 50mm of the outer PVC jacket of the RG58 cable.
2. Trim the exposed cable braid shield so that approximately 10-15mm remains showing.
3. Fold the remaining braid shield back over the outer PVC jacket of the cable as shown.
4. Trim the exposed inner conductor, complete with insulation to the EXACT length shown below.
5. Screw the prepared cable into the coil housing until the cable 'bottoms'. The cable is now terminated. No soldering of the conductors is necessary. Please note the D.C. continuity checks above.
6. Trim whip top to frequency using an inline VSWR meter.

RG58C/U CABLE

Cutting Chart





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