

Download File PDF 40m 10m Delta Loop Antenna Gu3whn Iss 1 3 Rsars

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40m-10m DELTA LOOP ANTENNA - GU3WHN

This simple broad band antenna is easy to build, has gain similar to that of a dipole and is tolerant of nearby objects. It can be erected in almost any configuration provided the wires are well separated otherwise it acts as a single broad band (directional) dipole. It generally feeds 50 ohm coax at the bottom but a balun can be used to give vertical polarisation, as in a 4 side loop. The gain over a dipole is claimed to be about 2dB.

The Formula $1095/\text{Freq (MHz)}$ is used to calculate the size of this inverted Delta Looping either a 4:1 balun for a 100 ohm antenna or a 7:1 balun quarter wave section from the feed point to the 50 ohm feeder for more broad band operation.

The bottom of an inverted delta loop makes it easier to support the fairly large 4:1 balun to match the nominal impedance of 30:1:12 ohms. The addition of the balun allows the antenna to be used on several HF bands.

Mike GU3WHN

40/10m Delta Loop build on Delta

| | |
|--------------|---|
| Wire | 1.5mm PVC covered solid core electrical wire (150 ohm/ft) |
| Length | approx 34 feet PVC (also the Parasitic legs) |
| Radius | Commercial 47 inch of dia |
| Feeder | Resistor length 100ft |
| Earth System | Domestic earth changed from PNE to TT earth (Grounded) |
| Shielding | 2 x 100mm diameter aluminium bonded together earth equipment earth |
| Construction | Horizontal wire for 100 approx 8000 (3m) (also height of 2000m) (and also approx 4000 (3m)) |
| Feedpoint | Use 4:1 balun (or 7:1) (also above ground) |

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