

## MULTI-BAND HF ANTENNA

The G5 RV aerial has been famous for many years and is now widely used all over the world. It is an inexpensive aerial so ideal for the newcomer as well as more experienced amateurs. The G5 RV gives a small amount of gain on the higher bands but for optimum performance especially with solid state rigs you must use an ATU.

A pair of inductors are available in a kit to add 80m to a half size G5 RV with only a small increase in the overall length of the aerial. Order EL-40XC from your dealer.

| SPECIFICATIONS: | FULL SIZE        | HALF SIZE        |
|-----------------|------------------|------------------|
| OVERALL LENGTH  | 102 FEET         | 51 FEET          |
| PHASING LINE    | 30 FEET 6 INCHES | 15 FEET 3 INCHES |
| USEABLE BANDS   | 10-80 METRES     | 10-40 METRES     |
| RESONANT BAND   | 20 METRES        | 10 METRES        |
| CONNECTOR       | SO-239 (PL-259)  | SO-239 (PL-259)  |
| IMPEDANCE       | 50 OHMS          | 50 OHMS          |

### INSTALLATION:

The aerial should ideally be mounted a half wave length above the ground to ensure best DX performance of the most used band. If this is not possible then erect the aerial as high as possible above the ground for best overall performance. The best way to install the aerial is horizontal and parallel with the ground, however if there are space limitations it can be inclined, or have the centre support, or have the egg insulators moved inwards from the ends with the ends dropping down vertically. The feeder should also be hung vertically for at least half its length although it can be inclined sideways without significant degradation in performance.

A good S.W.R. will be found on the band for which the aerial is resonant. An aerial tuning unit should be used on other bands and for optimum performance on the resonant band. For listening only, no ATU is necessary, however some improvement will be found by using one. Any length of coaxial cable may be connected to the end of the feeder using a PL-259 plug. The other end of the feeder is connected to the ATU if you are using one or direct to the receiver or transceiver. Protect the PL-259/SO-239 connection from an ingress of moisture by using coax seal or self amalgamating tape or similar.

The full size aerial can be used on 160m by strapping the feeder ends together and feeding with a single wire from the ATU. The transceiver must then be grounded as a good earth system is required. In this way the aerial then works as a Marconi type. Similarly the half size aerial may be used on 80m.

If the ribbon feeder has to run near a building or fence etc. space it away by a minimum of 6 inches. These aerials can be worked very successfully close to the ground, however in the interest of safety please ensure that the aerial is high enough above the ground so that it cannot normally be touched or contacted when in use.