

THE MOCVO LW-10 ANTENNA

At the heart of the LW range of antennas (LW-10, LW-20) is the MOCVO 9:1 UNUN. This provides a feedpoint for the long wire radiating element and converts the impedance from 450Ω (+/-) to something nearer to the 50Ω expected by your transceiver. There are three connections on the UNUN, a SO239 to which you connect the coaxial feed line and two machine screws with butterfly wing nuts. One of these has the wire antenna connected to it and the other is for you to connect length of wire to earth. This is not strictly a necessary connection but will reduce static pick up and provide a direct to earth pass for any possible lightning strike or build up of static in the air. The best way to do this is to attach a length of wire to a ground rod and fix it to the UNUN at this terminal. Fix the feedpoint up as high as you possibly can – it may be attached to a pole or to a wall and then attach the other end of the wire to a point as far away as is possible. This is best done if the wire can be kept in a straight line and horizontal but, if this is not possible due to space restrictions, do not despair. The wire may be dog-legged, sloped or fixed in any number of ways to enable it to fit in the space available.

The other end of your coaxial cable should be attached to your ATU and then from the ATU to your transceiver. Power up, make final adjustments to tune and away you go.

It will handle up to 400W CW or 500W PEP*.

* This power rating is for intermittent amateur (CW or SSB) use and not for AM broadcast or constant carrier data modes. For AM broadcast a much higher power BALUN is required.