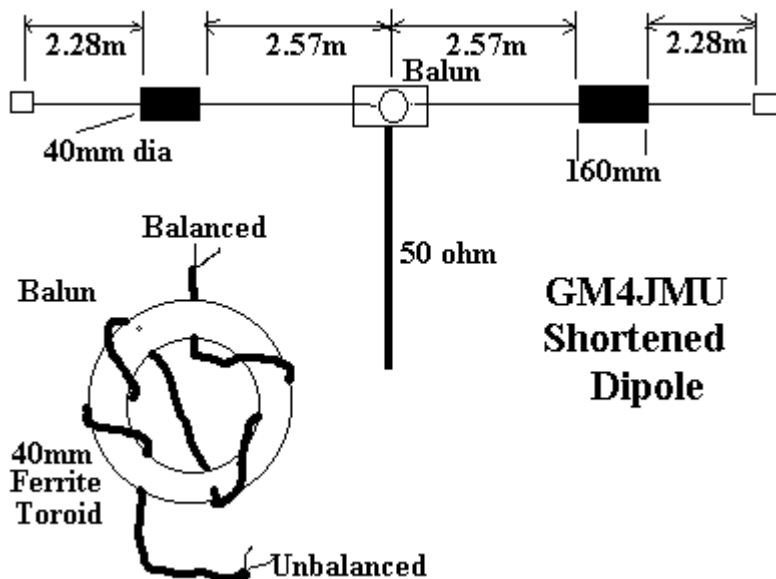


GM4JMU SHORTENED DIPOLE



The GM4JMU

Shortened 7Mhz Dipole

To construct each side of the antenna proceed as follows. Cut a 10.25 metre length of 24/0.076 insulated wire, and a 160 mm length of 40 mm o.d plastic tubing (white plumbers tubing). Measure a 2.75m portion of the wire and attach the wire to the plastic former. Wind 40 turns of the wire onto the plastic former and firmly secure the end of the winding. Make the other half of the antenna in the same way. Attach the ends of the 2.57 metre sections to a suitable centre insulator, which should also mount the choke balun, connect the 50 ohm coax, then carefully waterproof the whole assembly.

The choke balun uses RG174AU coax and a 40mm Ferrite Toroid. The antenna will work well without the balun but probably will have some radiation from the feeder.

Once the antenna is erected adjust it to resonance on 7.030Mhz by folding back the ends, and adjust the length to provide minimum SWR.

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