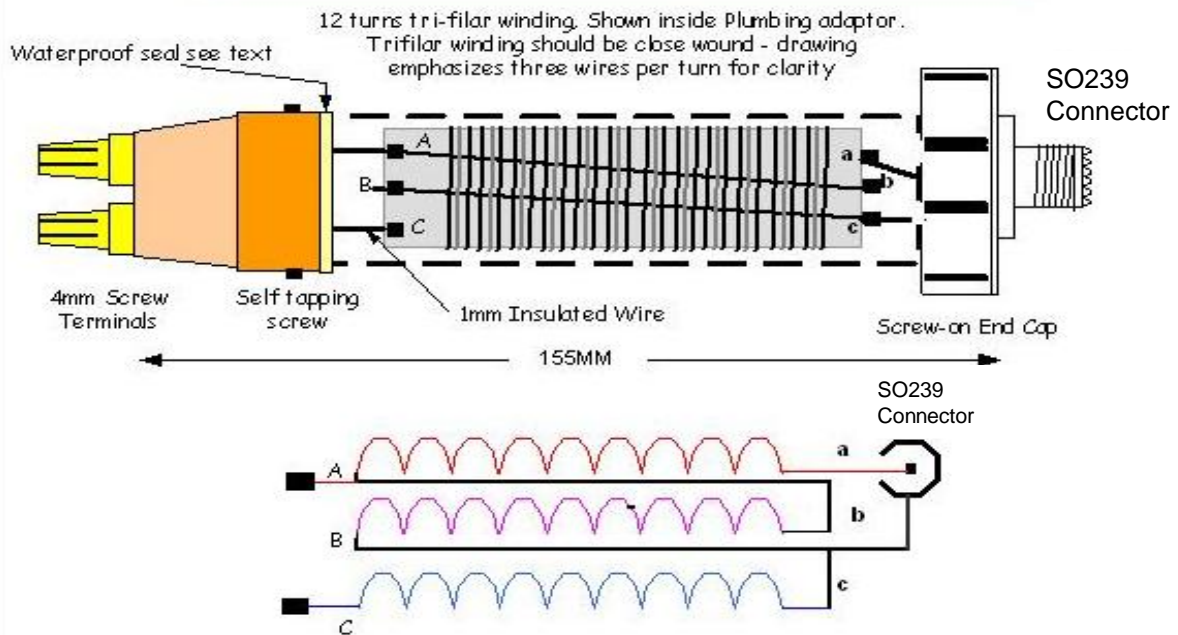




AIR CORED 1:1 Balun for 3.5 - 30.0 MHz

PARTS REQUIRED

1. 1.9 metres of 1.6mm diam enamelled copper wire
2. Air-core former 25-27.5 mm diam White PVC tube
3. Gold coloured top from a "Comfort" Clothes Conditioner bottle
4. Marley Plumbing Trap Adjuster 1.5 inch (40mm)
5. SO239 Connector & 4 of 3.5mm Nuts, Bolts 7 washers & 1 off solder tag
6. 2 off 4mm insulated screw terminals – yellow
7. 200mm of 1mm diam insulated wire for connections to the 4mm screw terminals
8. Bostik glue / Silicone bath seal to seal & waterproof the Comfort cap.
9. Insulation tape to secure the windings and protect the enamel wire.



Construction Notes

1. At the SO239 end a solder tag on one of the securing bolts is used to secure the second wire of the input side if the BALUN.
2. Solder the 1.6mm enamelled copper wires to the SO239 connector to secure the transformer core, but keep these short. Then screw the end cap onto the trap's body. The core should rotate freely inside the Marley trap as you screw the cap on.
3. The end-cap terminations are made in 1mm stranded insulated wire loosely twisted together. These also need to be as short as possible. When the end cap is pushed on the wires should fall inside the core.
4. With the end-cap in place drill two small pilot holes on opposite side, and secure with two self-tapping screws.