

Balun case construction.

For details to the balun-transformer see the other pdf-files

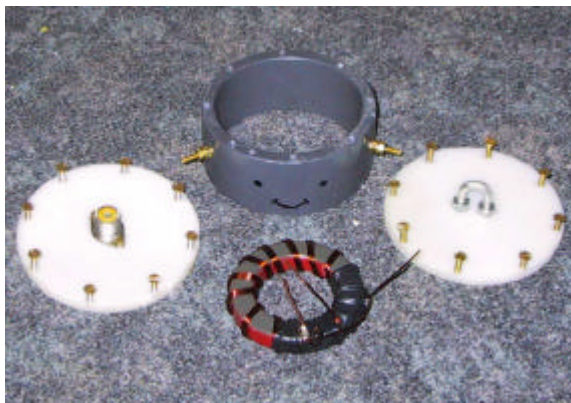
By dl5dbm, Anwar von Sroka

The material you might need:



1. A slice cut from a pvc-tube, please select a tube with a 5mm wall. (gray in the picture)
2. Two 8mm thick covers cut out of pvc-board (white in the picture)
3. One amidon core, in this case red for use to frequencies from 3 to 30 MHz. The size of the core depends on the power to handle.
4. A PL-Socket
5. Small screws to mount the top and bottom cover and fix the PL-socket, I selected brass because of corrosion.
6. Two long screws, they will be used as the terminals to which the antenna wire is connected to. (also brass with nuts)
7. Enameld wire, wire diameter depending on power handling, in this case 1.2mm to handle 1KW-Output.
8. Sealing rubber to tighten the case against moisture.

Next picture shows all parts prepared.



Both covers are drilled, on the top cover I mounted a U-bolt to hangup the balun.

The case body with the wire-terminals and smily, Hi.....

The prepared balun-transformer 1:2.5 to use with a Delta-Loop .

See the PDF-files for setup information

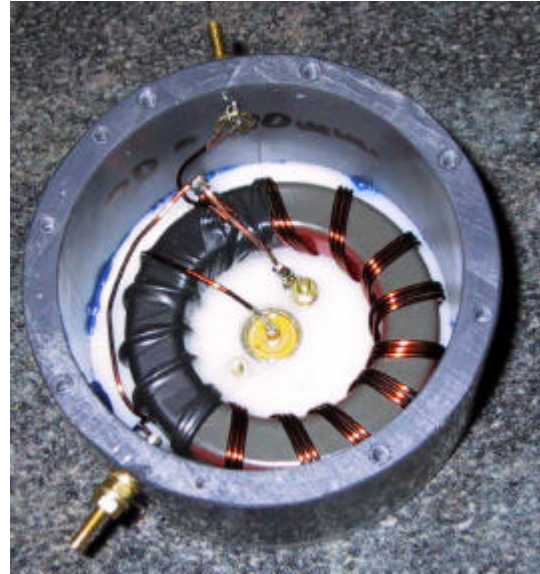
Here you see the balun fitted and attached to its terminals.

The blue stuff that has been squeezed out is a sealing material that is used to seal car gearboxes.

I am sure that the box is going to be airtight when finished

After soldering the balun-wires to the terminals seal the tinned connections with nailpolish,

Give your XYL your kredit-kard and when she`s shopping you can use her nailpolish without beeing disturbed..... but I think it is a lot cheaper when you buy a little bottel your self.



Here it is, ready to start dooing his job



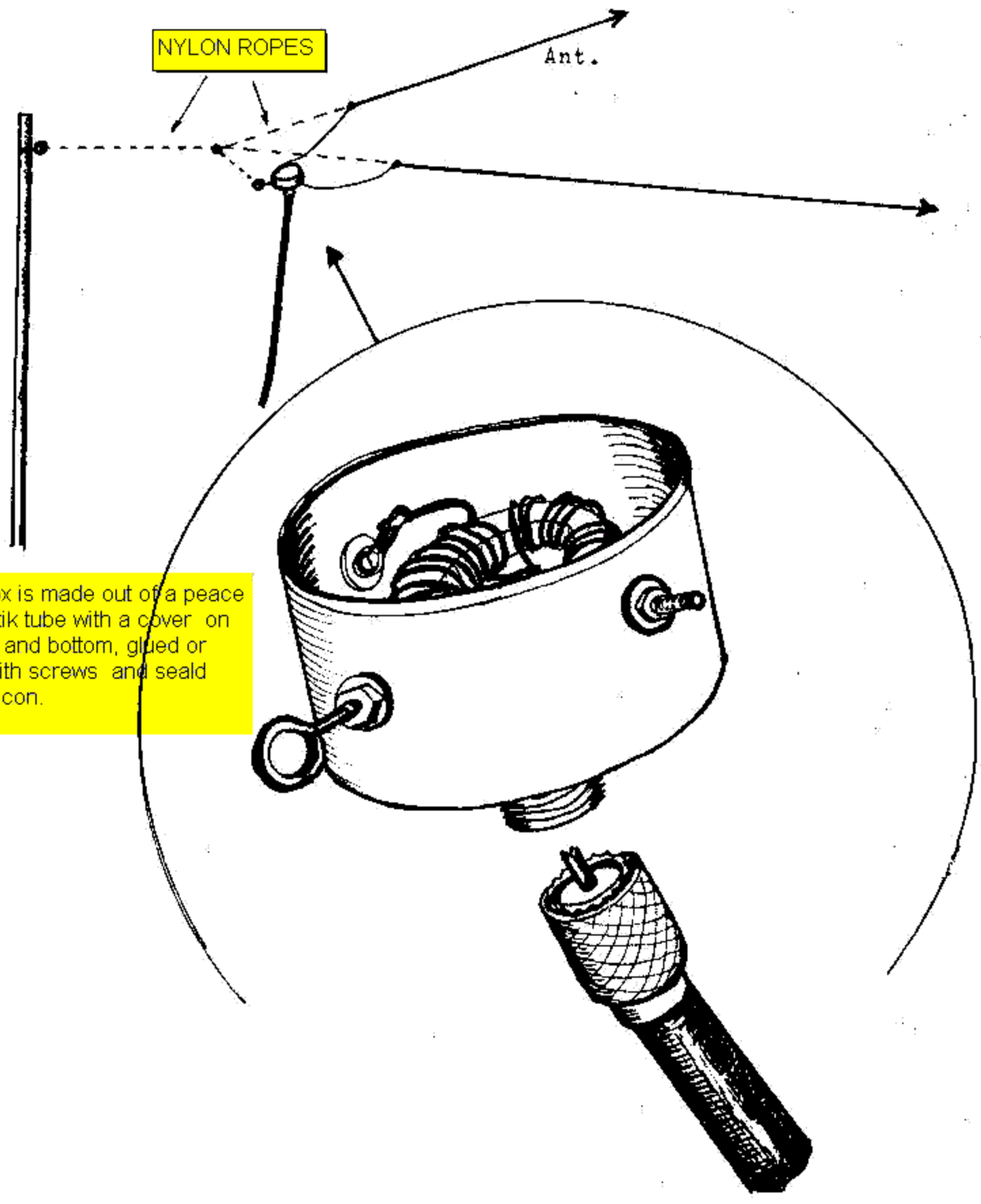
So I think this is enough of details for you to build one yourself.
The dimensions of the box can vary depending on the size of balun you want to construct.
For the start I would recommend an ear-ring, later on you can try your skill on wagon-wheels, Hi....

If you like this homebrew sight please don't forget to rate this sight at the dxzone, and a comment to the guestbook would be fine. If you have any suggestions to the sight please mention them.

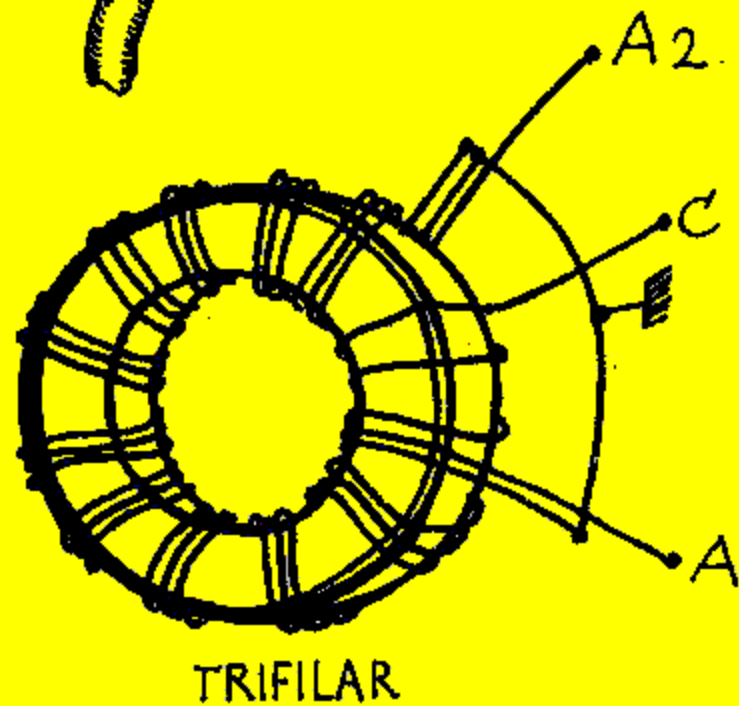
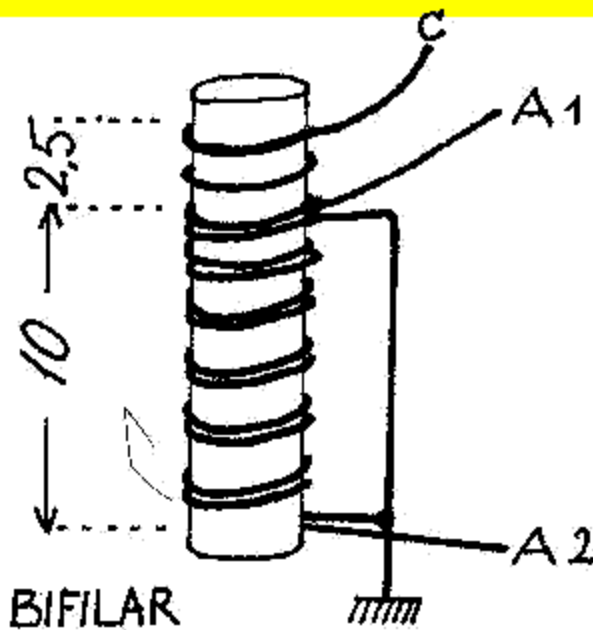
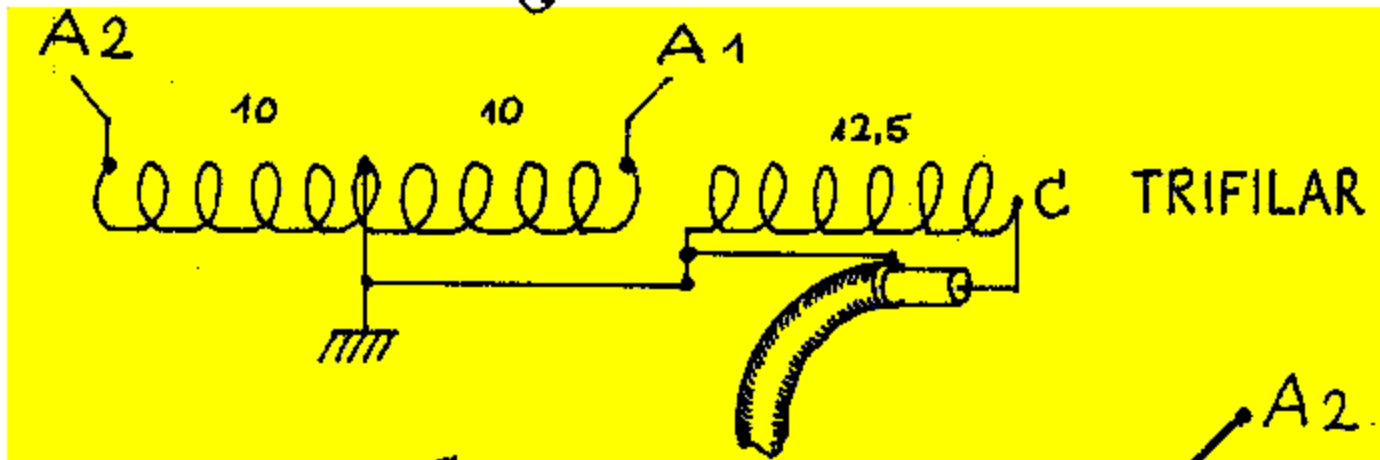
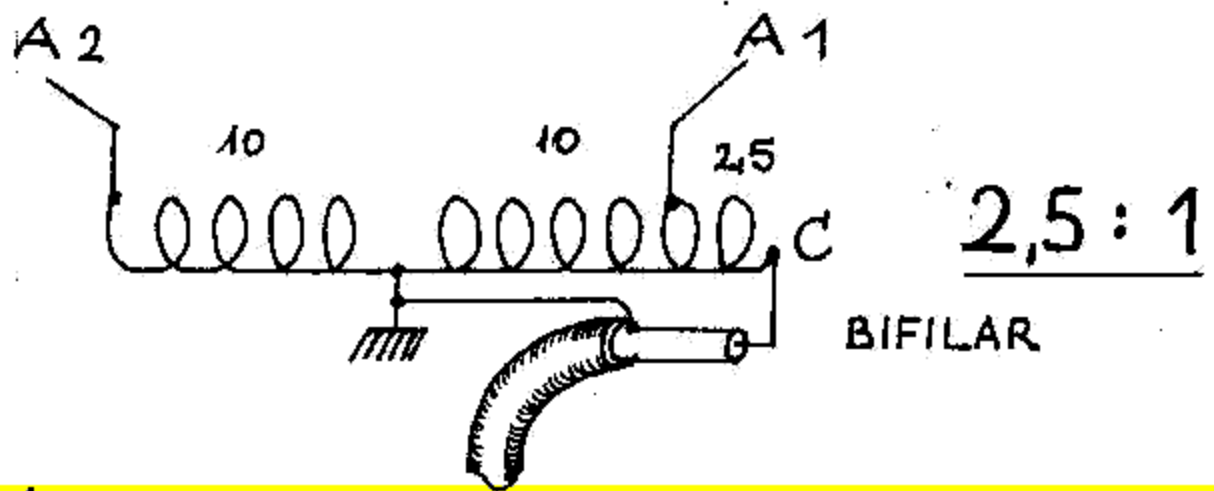
PS.: Sorry for my poor English, I'm out of practice!!

73 from DL 5 DBM. Anwar....

The length of the wire for a 80 meter Loop is about 83 meters, depending on wich resonant point you tune it to. I use the same antenna on all Bands with very good performance.



The Box is made out of a piece of plastik tube with a cover on the top and bottom, glued or fixed with screws and seald with silicon.



Please build the toroidal type, its performance is much better. A and A2 are the ends which are connected to the LOOP, C is the middle connector of the HF-Socket, the ground doesn't need any explanation. Look very carefully at the drawing and wind the coil the same way and direction, material of toroid can be MANNIFER or AMIDON with an outer diameter of 5 to 6 cm and inner diameter of about 3 cm. Colour of the toroid must be RED, this means that the performance is from 2 to 35 MHz. The wire is enameled copper with a diameter of about 2mm, the windings are trifilar, parallel to each other, not twisted. Transformation ratio is 1 : 2.5 that matches 50 Ohm to 125 Ohm at