

## 5/8 $\lambda$ VHF- UHF ANTENNA

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To do the antenna one can very easy as well as the costs are nothing. You need a box of a sweets- surprise Chupa- Chups, a piece of an old coax, some wire, epoxies, and a little of job.

So, go to do it!

► Take glass-reinforced plastic rod 5 and upper part of a sweets- surprise Chupa- Chups 10. Insert the rod and wire 4 for matching coil into item 10.

► Take a metal tube, cut a ring 7 and insert into item 10.

► Take a plastic cap 8 from a plastic can, fix a RF-socket 9 on it, solder the wire of the coil 4 to the socket, solder by 3-5 wire the ring 7 to the socket.

► Turn up item 10, fill up it by epoxies 6, and close it by the cap 8.

► When the epoxies are hardened, drill holes for counterpoises 11 at low side of the item 10 and through out item 7.

► Cut a thread into item 5 and onto counterpoises 11.

► Remove braid 3 from a coaxial cable, put on the braid 3 onto item 5 that before is covered a glue. The length of the braid 3 is equal to  $5/8\lambda$  for 144 Or 430 MHz.

► Coil the spool 4 (any number of turns) with step between turns of 1-mm, solder the spool to the braid 3.

► Insert 6  $\lambda/4$  counterpoises.

► Meter SWR. Chose a tap from the coil 3 to minimum SWR.

► Put on a can of a pen onto the upper end of the rod 5.

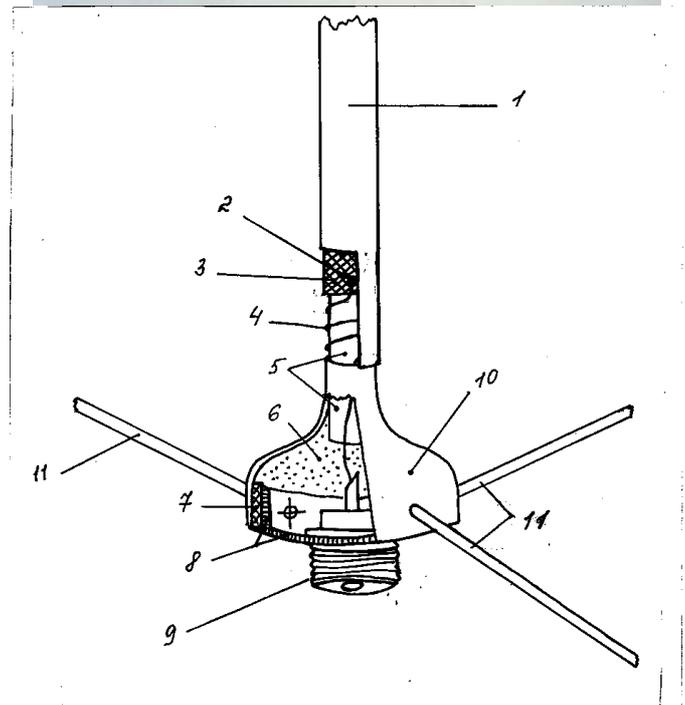
► Put on a shrink plastic tube 1 onto the rod 5.

► Heat the shrink plastic tube.

Get you own antenna!

73!

### Sweets- surprise Chupa- Chups



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