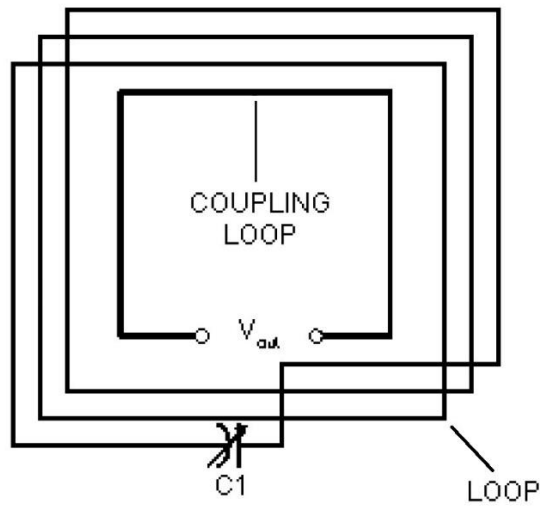


A PORTABLE LONG WAVE LOOP ANTENNA (127 KHz to 452 KHz) (by ON4EI)

0/ Design



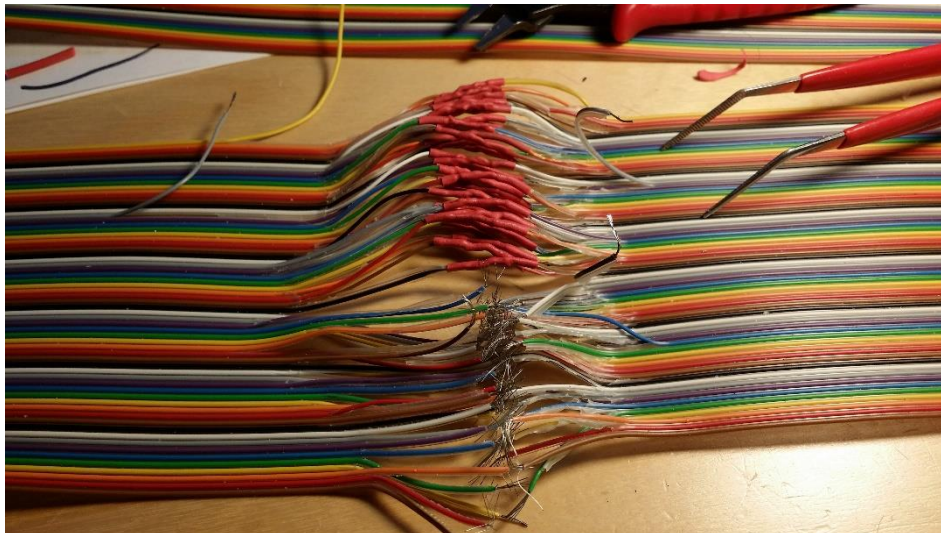
1/ Take a 64 conductor ribbon cable 2 meters long



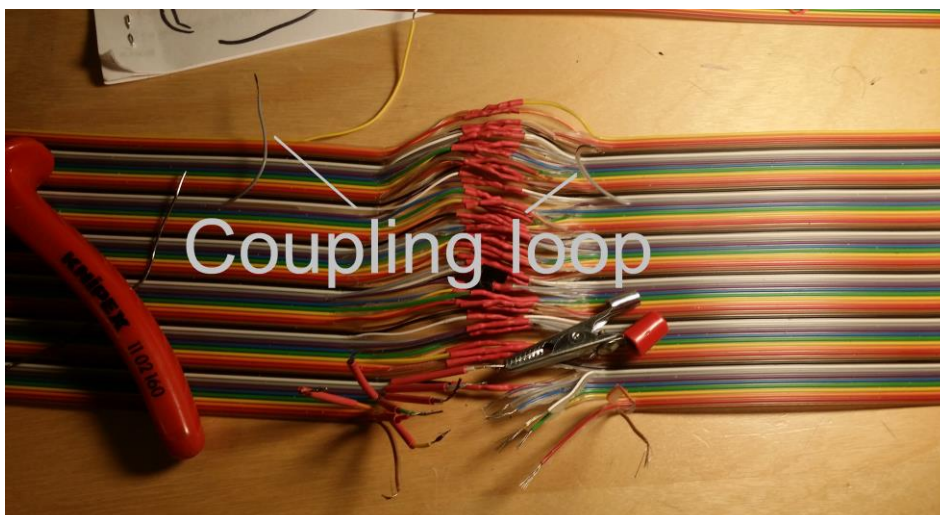
2/ Strip 128 wires



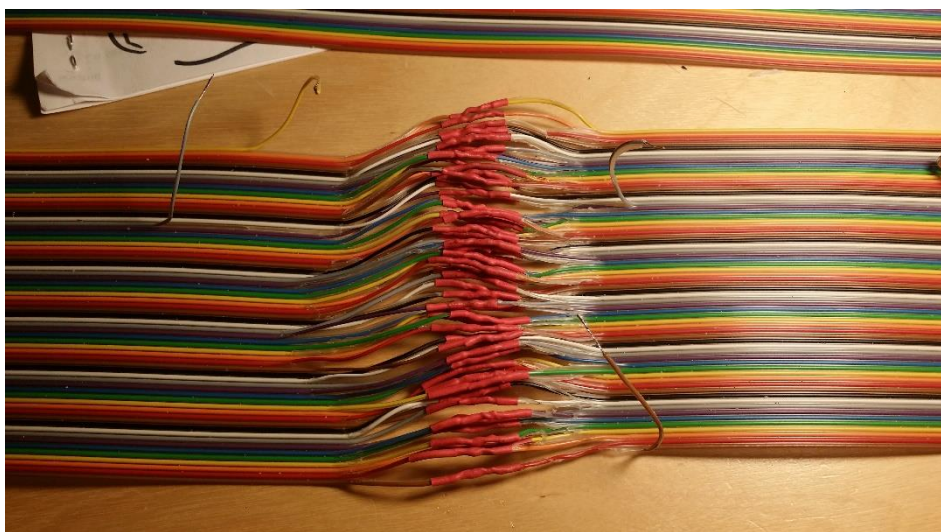
3/ Solder wires alternatively to create an inductor loop



4/ Continue to solder wires and do not forget to make one loop alone to allow coupling



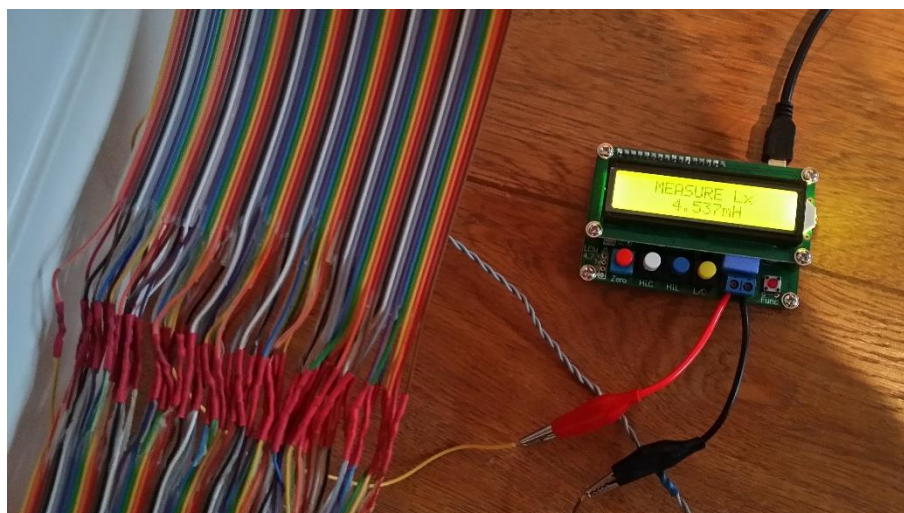
5/ After some time you did it!



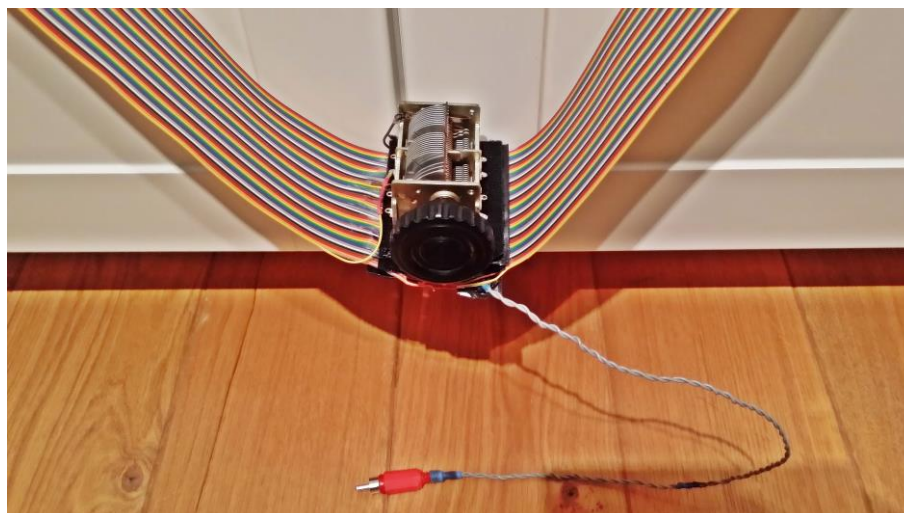
6/ Suspend the loop inductor



7/ Measure the loop inductor (4.537mH)



8/ Add a 300pf capacitor (I glued the wires and used Velcro to bond the capacitor)



9/ Your portable Long Wave loop antenna is now ready for your suitcase

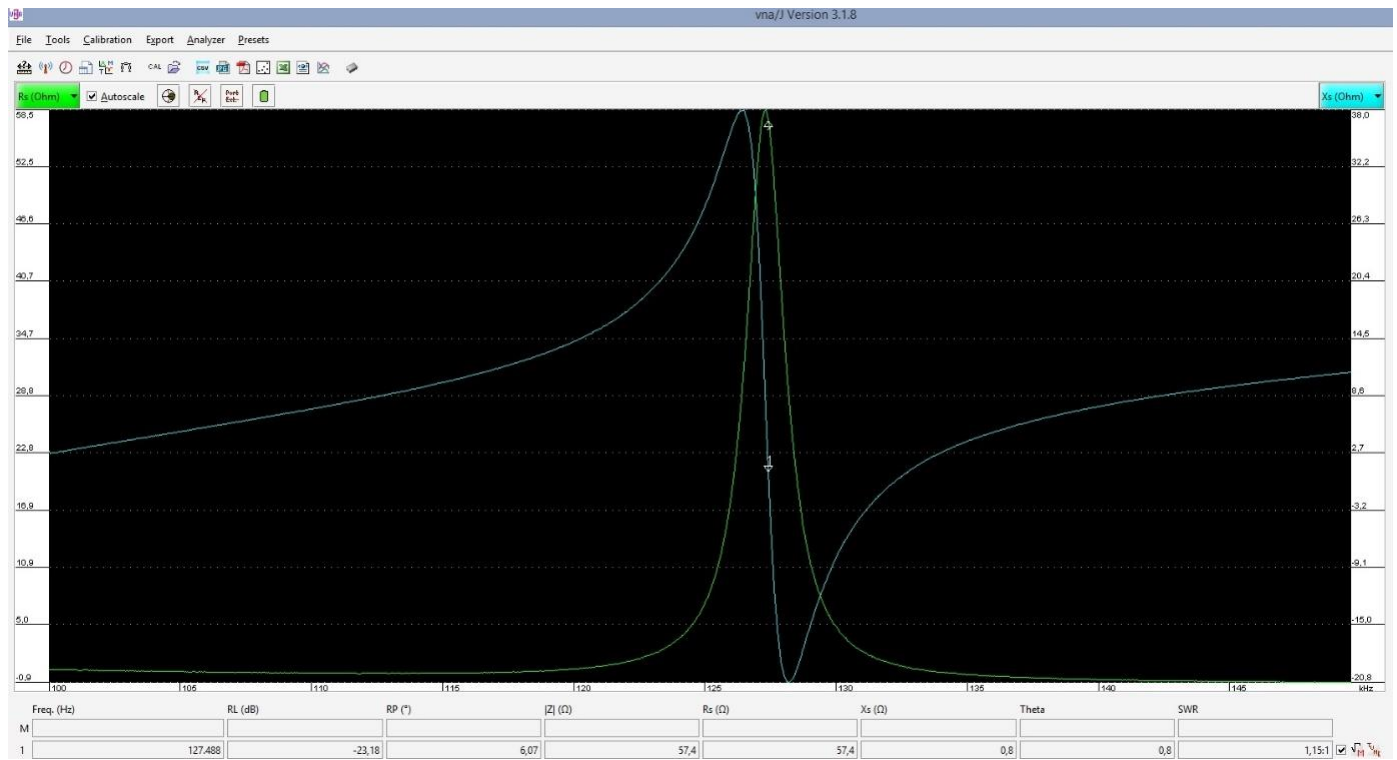


10/ Portable Long Wave loop antenna deployed

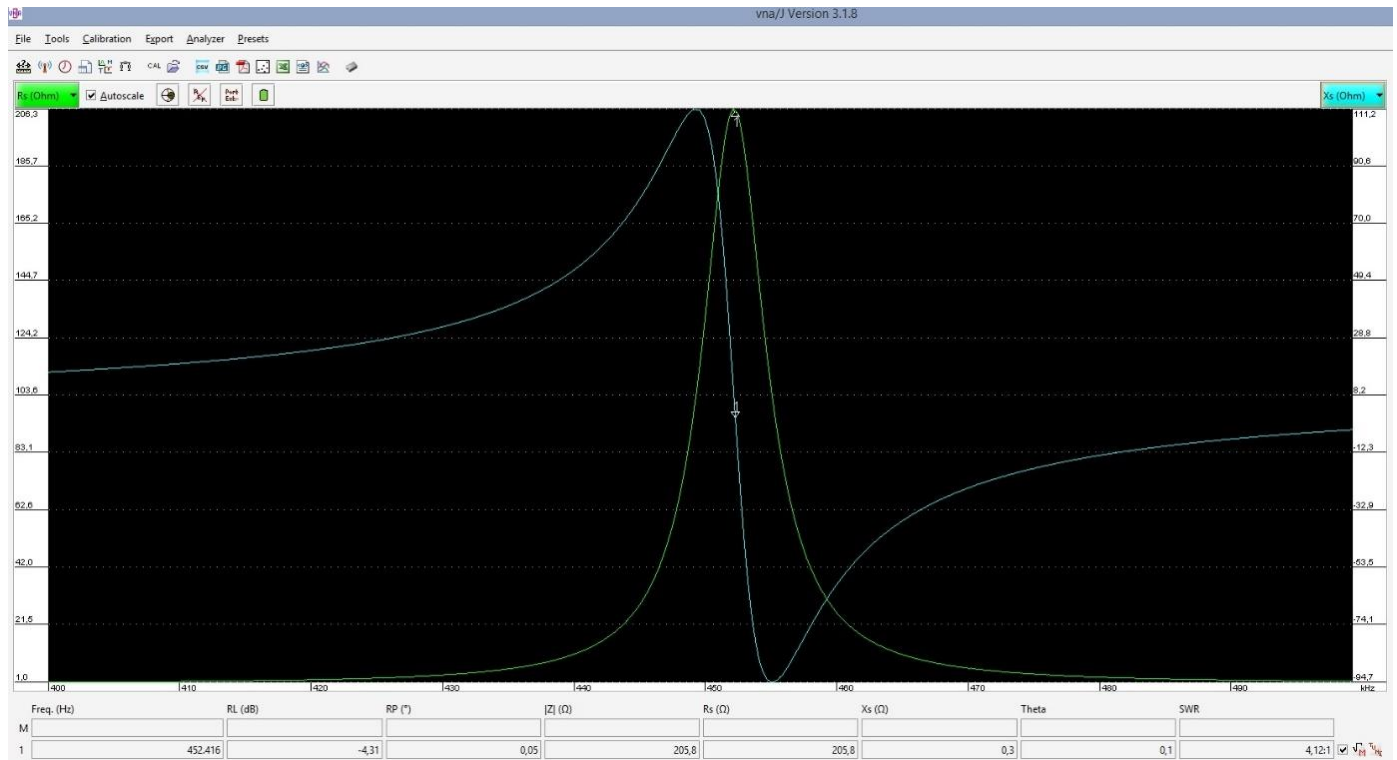


11/ Antenna measurement

127 KHz



452 KHz



12/ If you need a LW convertor kit, have a look at: <http://wb9kzy.com/lfconv.htm>

