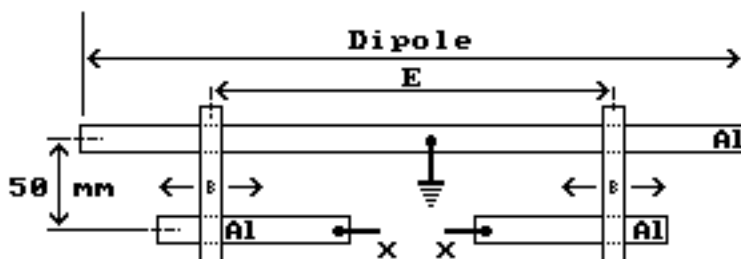
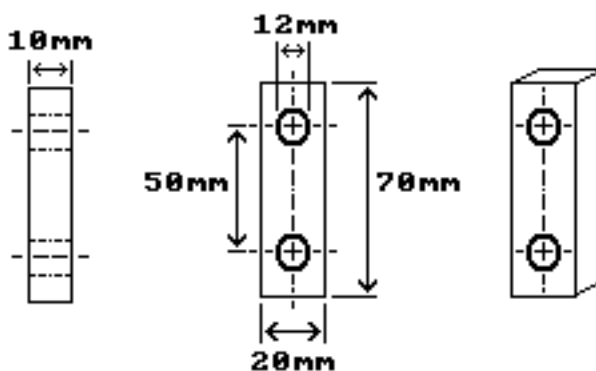


## Dipole Antenna

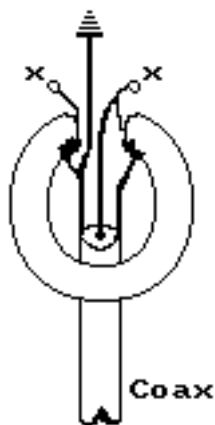
This type of antenna radiates the power in a given direction, the radiation field is directed. The antenna is horizontal polarised. To adjust the S.W.R. enlarge (lower) the distance labeled "E". In the schematic Aluminium pipe with a diameter of 12[mm] is used.



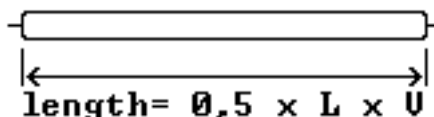
The blocks labeled "B" in the previous figure are metal Bridges. They are made of aluminium too. Be sure that they contact the pipes in whole!!! When they don't contact very well, this will result in an unstable S.W.R.!!! The size of the Aluminium plates is given in the next figure:



To match the impedances of the antenna, feedline and transmitter you can use a balun. A balun is a short coax cable which is bowed in some sort of circle. See the next figure.



To calculate the length of the cable use the formula:



Where "L" is the wavelength and "V" is the shortingsratio (see the [Antenna Main Page](#)).