

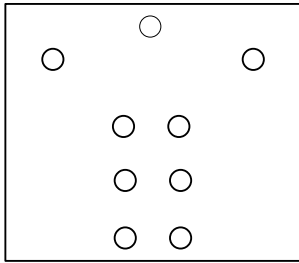
Portable linked dipole for 40m, 30m, 20m, 17m, 15m bands

Quick construction guide

by OM2JU

Center element - 1x

- cut from plastic or plexiglass
- dimensions cca 40mm x 40mm
- drill 9x holes of 2.5mm diameter

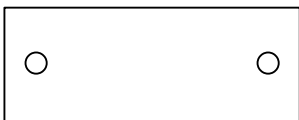


Crocodile clip, cca 4 cm - 6x

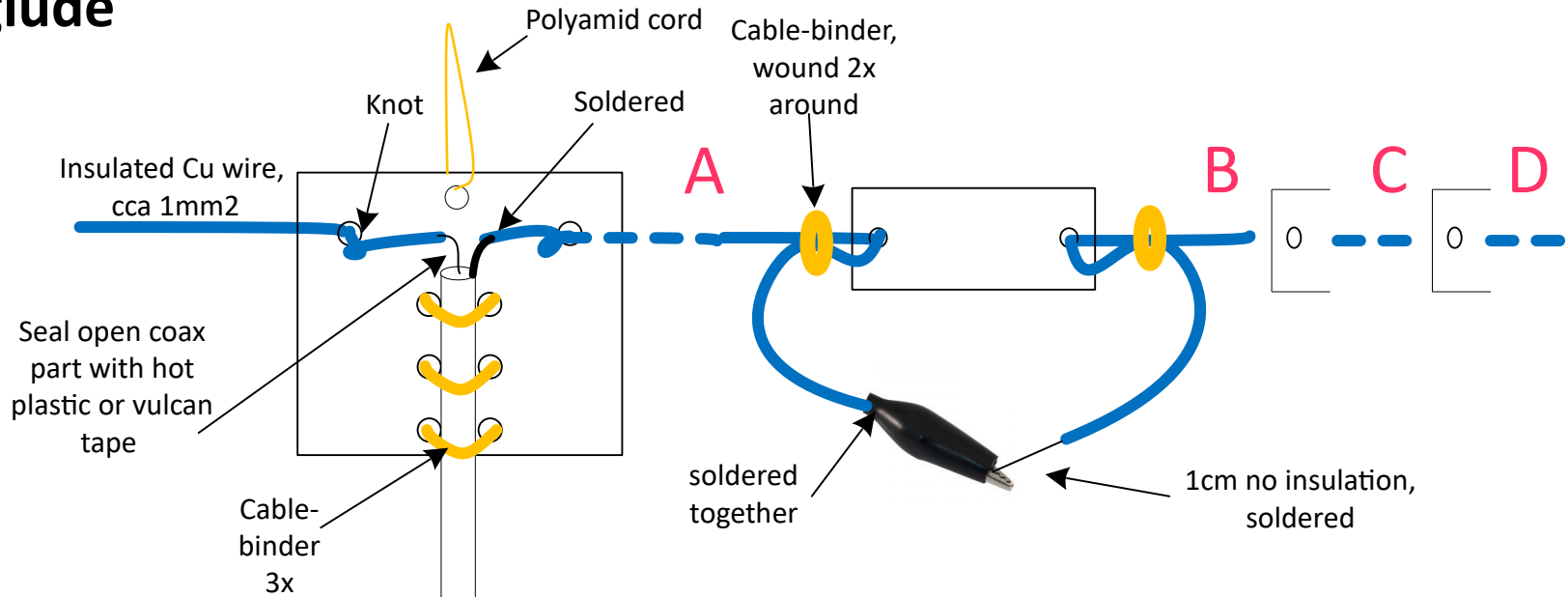


Insulator - 6x

- cut from thin plastic or plexiglass
- cca 40mm x 15mm
- drill 2x hole of 2.5mm diameter, spaced cca 30mm apart



or print on 3D printer:



Each of two dipole arms has 4 segments A, B, C, D
Cut the following lengths of insulated wire:

A = 385 cm

B = 110 cm

C = 194 cm

D = 308 cm

A --> 18.01 MHz

A+B --> 14.1 MHz

A+B+C --> 10.12MHz

A+B+C+D --> 7.1 MHz

Detail of insulator with wire ends



Note1: If you calculate the resonant frequencies for given bands add length 4cm of crocodile clip and take into account velocity factor of insulated wire $k=0.95$. Dipole was measured and finetuned with VNA.

Note2: 21MHz (15m) band is covered by dipole for 40m