

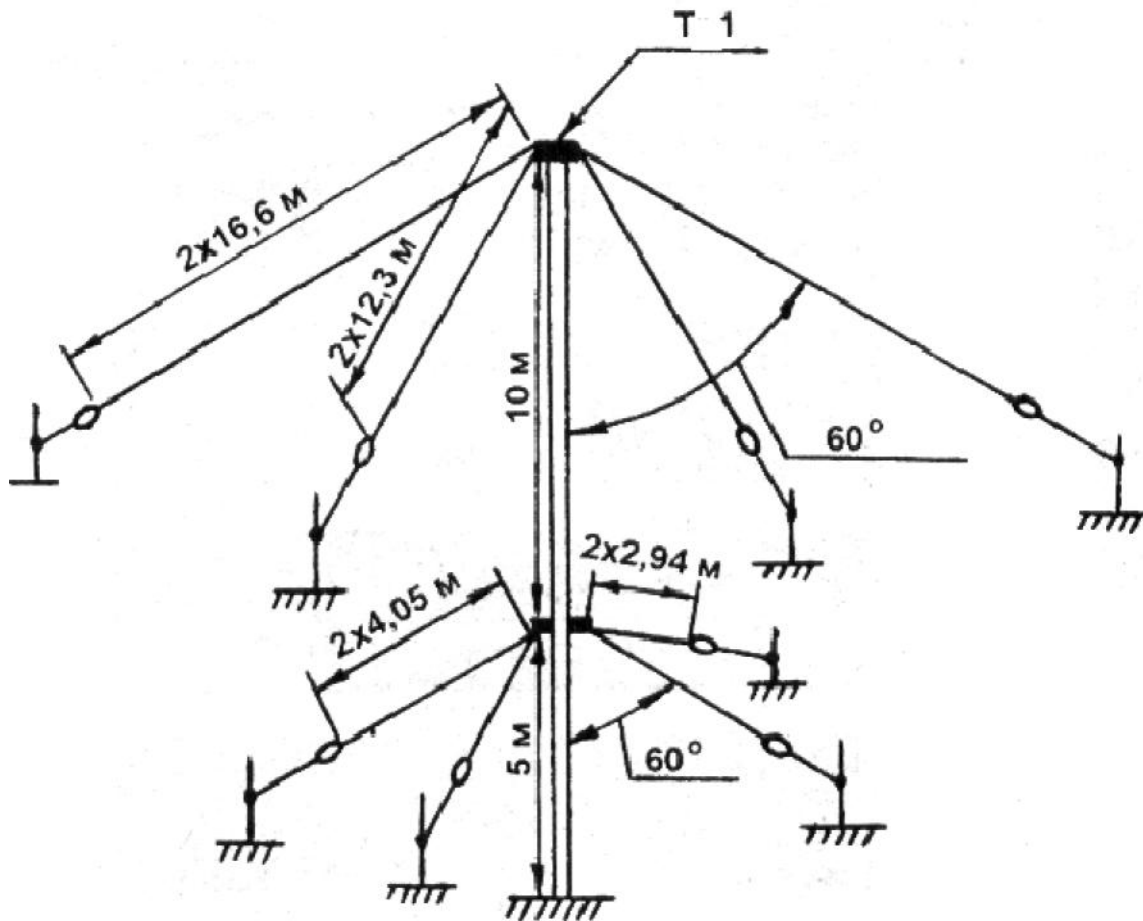
# Antenna for 80-, 40-, 20-, 17-, 15-, 12- and 10- meter Band

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The two-level antenna works at 80-, 40-, 20-, 17-, 15-, 12- and 10- meter Bands. Upper level works on 80-, 40-, 20-, 15- and 10- meter Bands. Lower level works on 17- and 12- meter Bands. **Figure 1** shows design of the antenna.

Upper level has input impedance of 180... 220- Ohm. Lower level has input impedance of 50-Ohm. Each level feeds by its own coaxial cable. **Figure 2** shows feeding of the levels. Antenna at the upper level is fed through a transformer with ratio 1:4.

The transformer is wound on a ferrite ring with OD 60-mm and height 10-mm. The ring may have permeability 400... 600. Transformer has 10 turns wound by a pair of wire in diameter 1.5- mm (15- AWG). Then the turns are connected with antenna and together accordingly to **Figure 2**. The antenna may be fed through one coaxial cable. It needs to install RF Relay at the lower level that would be turn the cable to a chosen antenna. The RF Relay should switch both- central core and braid of the coaxial cable.



**Figure 1** Design of the Antenna for 80-, 40-, 20-, 17-, 15-, 12-, and 10- meter HF Band

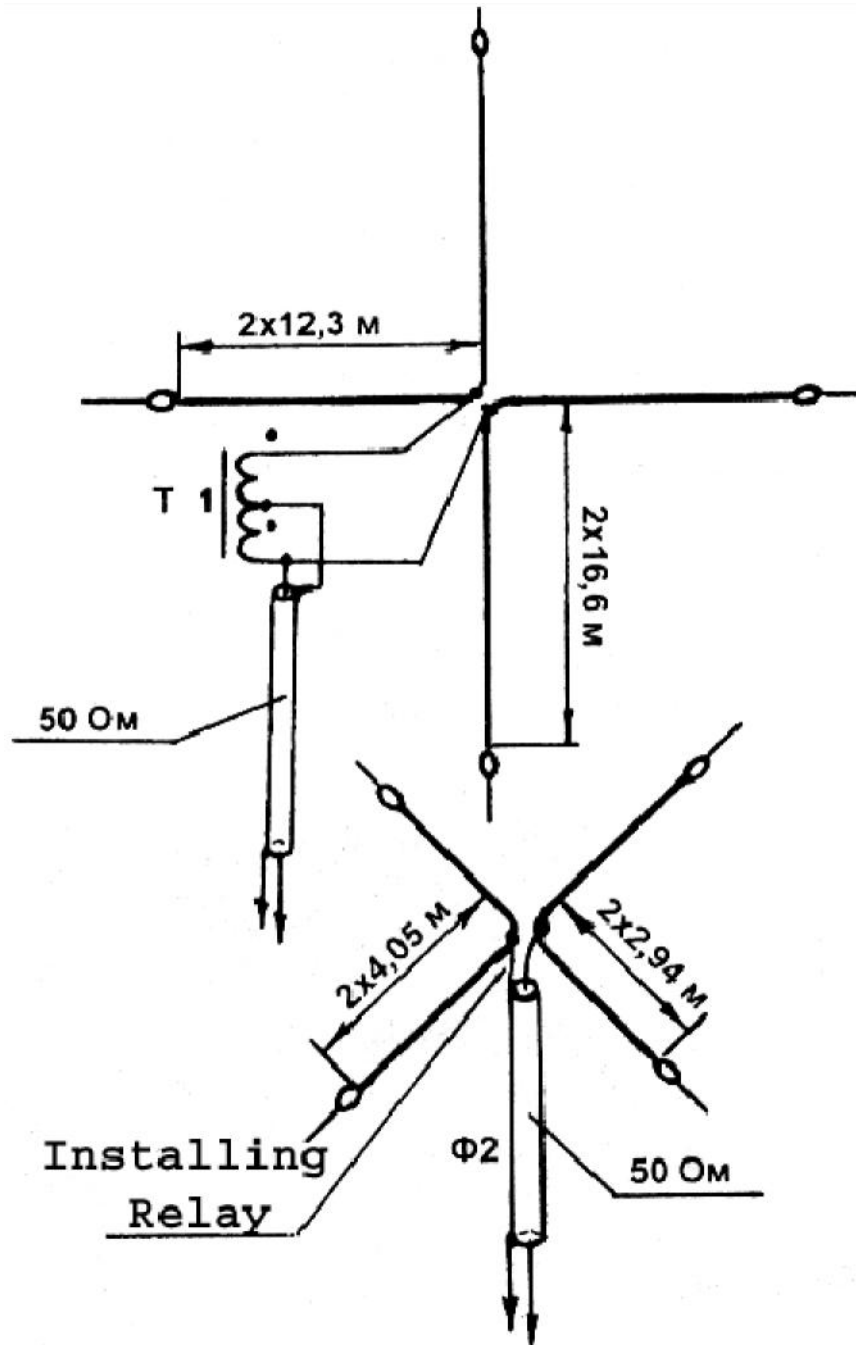


Figure 2 Feeding of each Level of the Antenna for 80-, 40-, 20-, 17-, 15-, 12-, and 10- meter HF Band

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