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Winding and assembly instructions of bifilar toroidal transformers

Winding

Wind the primary coil (P) and leave 15mm (3/4") length leads.

Twist pair of wires of the proper length (see table). Each twist should be about 9mm (3/8").

Wind this bifilar winding (S), and leave 45mm (1.5") length leads.

Preparation

Identify one end of one of the bifilar windings, and the beginning of the second winding and clip them (C) to 30mm (1").

Remove the insulation from the leads, up to 3mm (1/8") from the toroid core and tin them with solder.

Assembly

When the toroid is held perpendicular to the PCB wires 2, 4 and 6 are all on one side of the core and 1, 3 and 5 are on the other side. Do **not** cross the wires from one side of the core to the opposite holes.

First, insert the pair of long leads, to holes S, the medium length leads to holes C and the short leads to holes P.

Insert the leads all the way in and leave 3mm (1/8") between the transformer and the board. Make sure that insulation is not protruding into the holes.

Solder the wires and clip them on the other side of the PCB.

