
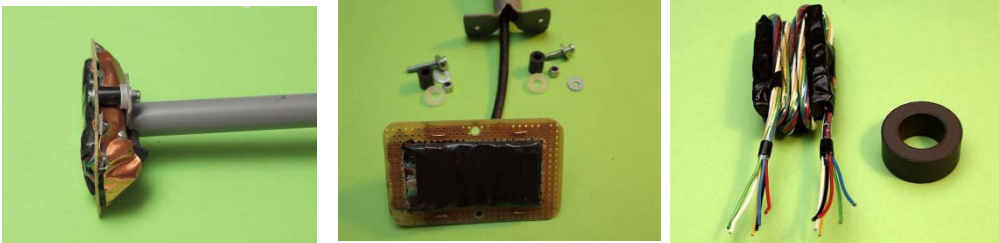

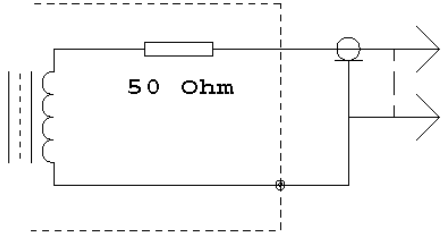




## Description of the construction of some big probe measuring coils

For measuring radiation (EMC) from big cable trunks or cabinets

Or to detect location of radiating cables in the street.

	
 <p>big sniffer</p>	<p>coil form = 4 halves FT114-61 or TDK clone or 4C65 – 28 or 36 mm in an open PCB mounting frame.</p> <p>N = 4, multi conductor, completely screened with copper foil except toroidal fracture side, it is a voltage probe, series terminator = 50 Ohm.</p> <p>Isolated and protected with vulcanizing tape.</p> <p>Usable range = 10 kHz to 100 MHz</p> 
	<p>coil form = 2 halves 4C65 – 36 mm.</p> <p>N = 10, current terminated with 10 Ohm, series to coax with 39 Ohm. This version with open construction.</p> <p>Usable range = 10k to 100 MHz</p>
	<p>coil form = 2 halves 4C65 – 36 mm.</p> <p>N = 5, With double wire and current terminated with 5 Ohm, series to coax with 39 Ohm. Screened with a tiny tomato can.</p> <p>Usable range = 10k to 100 MHz</p>



Coil form = plastic pipe. NO magnetic medium. N depends on pipe diameter, N should be equivalent to 25 x 25 cm square. 1/16 sq. Meter. With a 70 mm pipe form (removed) N = 16.2.

Winding is coax short circuit loop, but series terminated with 50 Ohm on point where N = 16.2. Like mini drawing above. It is rebuild, see next item.

Usable range from 50 Hz to 10 MHz.



Here a coil form is used, two parts of two bottles. The coil pickup head is made rotatable. Electrical construction is the same as above. Used with a 85 mm bottle, now N = 11

Usable range from 50 Hz to 10 MHz.

