2:5:5(b)

The magnetic field around a wire or coil

Passing a current through a conducting wire creates a magnetic field around the wire When the current is switched off the magnetic field disappears. A magnet that is made using electricity is called an electromagnet.



Making the wire into a loop increases the magnetic field around the loops. This makes it stronger and explains why most electromagnets have a coil of wire. By wrapping the coil around a core made from a magnetic material the field is made even stronger.

