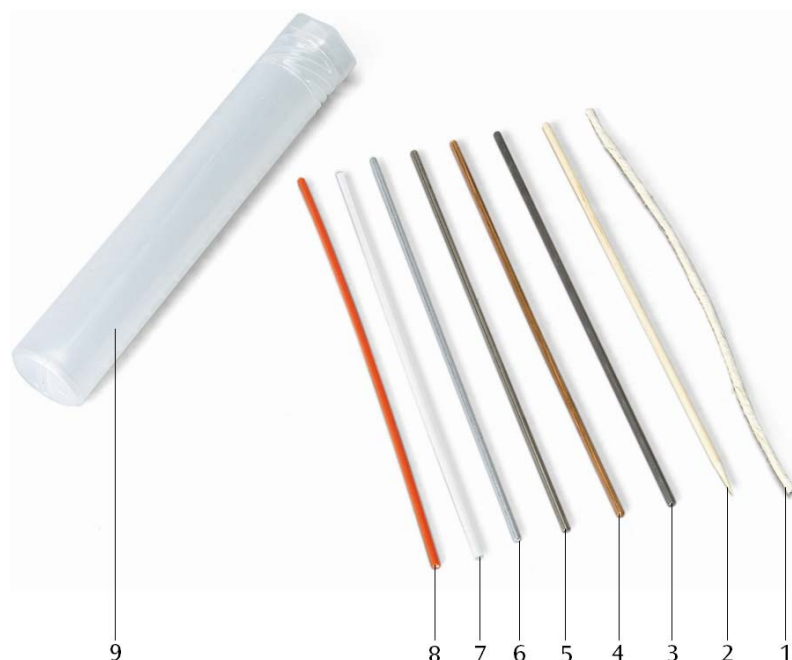


Set of “Conductors and Non-Conductors” U8495350

Instruction sheet

07/08 ALF



- 1 Cotton
- 2 Wood
- 3 Iron
- 4 Copper
- 5 Steel
- 6 Aluminium
- 7 Perspex
- 8 Plastic
- 9 Storage container

1. Description

The “Conductors and Non-Conductors” set is used for investigating the electrical conductivities of different materials.

It consists of samples of eight different materials that can be used for experiments and are supplied in a storage container.

2. Equipment supplied

- 1 Storage container
- 1 Iron sample
- 1 Aluminium sample
- 1 Copper sample
- 1 Steel sample
- 1 Wood sample
- 1 Perspex sample
- 1 Plastic sample
- 1 Cotton sample
- 1 Instruction sheet

3. Technical data

Length of samples: 200 mm approx.

Total weight: 200 g approx.

4. Operation

To carry out the experiments the following additional equipment is needed:

2 Contact stands U8497740

1 Single-throw switch U8495920

1 Transformer with rectifier (230 V, 50/60 Hz)
U33300-230

or

1 Transformer with rectifier (115 V, 50/60 Hz)
U33300-115

1 E14 lamp socket U8495320

1 Filament lamp 12 V, 25 W, type E14 as sold for domestic use

Experiment leads

- Set up the circuit as shown in Fig. 1.
- Connect each of the samples in turn in the contact stands.
- Complete the circuit by closing the switch and observe which of the materials cause the lamp to light and which do not.
- Summarise the results in a table.

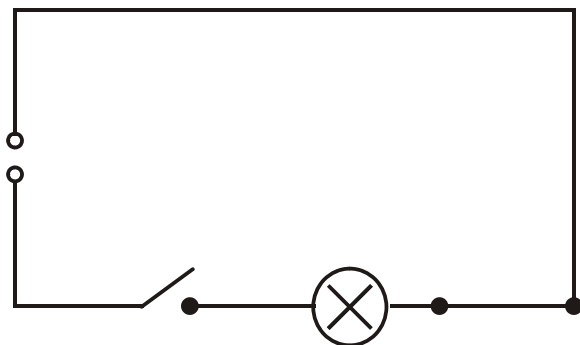


Fig.1 Circuit diagram