

## Domestic Electric Circuits

1. Electrical appliances such as lamps, washing machines must have *two* connections to operate. Most 220v sockets have *three* connections. What is the third wire for? How does it function? What type of appliances need the third wire for safe operation?

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2. What is a fuse? What is its function in a circuit? How does it work? How do you decide what type of fuse is needed for a given circuit or appliance?

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3. Many modern circuits do *not* have fuses. What do they use in place of fuses? How do they work? In what ways are they better than fuses?

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4. What (approximately) is the smallest current which can kill (or badly injure) a person? In modern domestic circuits, what is the name of the device which helps to protect us against electrocution? How does it work?

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