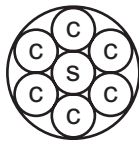


- 34** An electric power cable consists of six copper wires c surrounding a steel core s .



A length of 1.0 km of one of the copper wires has a resistance of $10\ \Omega$ and 1.0 km of the steel core has a resistance of $100\ \Omega$.

What is the approximate resistance of a 1.0 km length of the power cable?

- A** $0.61\ \Omega$ **B** $1.6\ \Omega$ **C** $160\ \Omega$ **D** $610\ \Omega$

- 35** The diagram shows a length of track from a model railway connected to a battery, a resistor and