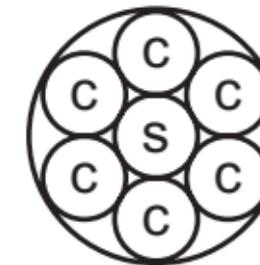


34 An electric power cable consists of six copper wires c surrounding a steel core s.



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

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

A 0.61Ω

B 1.6Ω

C 160Ω

D 610Ω

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