

- 22** The current in a 240 V electric heater is 4.00 A. It is made of resistance wire of diameter 4.00×10^{-4} m.

At working temperature, the resistance wire has resistivity $1.10 \times 10^{-6} \Omega \text{ m}$.

What is the length of wire used in the heater?

- A** 2.18 m **B** 6.85 m **C** 10.8 m **D** 27.4 m

