

31 A copper wire is 6.4 m long and has a resistance of $0.92\ \Omega$.

The resistivity of copper is $1.8 \times 10^{-8}\ \Omega\text{m}$.

What is the diameter of the wire?

- A** $5.7 \times 10^{-5}\text{ m}$ **B** $1.0 \times 10^{-4}\text{ m}$ **C** $4.0 \times 10^{-4}\text{ m}$ **D** $7.1 \times 10^{-4}\text{ m}$