

**35** A wire of resistance  $9.55\ \Omega$  has a diameter of  $0.280\text{ mm}$ .

It is made of metal of resistivity  $4.90 \times 10^{-7}\ \Omega\text{ m}$ .

What is the length of the wire?

**A**  $1.20\text{ m}$

**B**  $4.80\text{ m}$

**C**  $19.0\text{ m}$

**D**  $76.0\text{ m}$