

- 35** An electrical cable consists of seven strands of copper wire, each of diameter 0.30 mm, connected in parallel.

The resistivity of copper is  $1.72 \times 10^{-8} \Omega \text{ m}$ . The current in the cable is 13 A.

What is the potential difference (p.d.) between two points on the cable a distance of 1.0 m apart?

- A** 0.0045 V      **B** 0.11 V      **C** 0.45 V      **D** 3.2 V