

- 35** Charge carriers, each of charge  $q$ , move along a wire of fixed length. The number density of the charge carriers in the wire is  $n$ .

What is also required, for this wire, to determine the average drift velocity of the charge carriers in terms of  $n$  and  $q$ ?

- A** current per unit of cross-sectional area
- B** potential difference per unit of length
- C** resistance and cross-sectional area
- D** resistivity and length