

18 Two wires of the same material and length are connected in series in an electrical circuit. One wire is thicker than the other.

Which of the following statements is true when a current flows in the circuit?

- A** The drift speed of electrons in the thicker wire is higher than the thinner wire.
- B** The drift speed of electrons in the thicker wire is lower than the thinner wire.
- C** The number density of charge carriers in the thicker wire is higher than the thinner wire.
- D** The number density of charge carriers in the thicker wire is lower than the thinner wire.

