

30 There is an electric current in a copper wire.

Which statement describing the average drift speed of the charge carriers in the wire is correct?

A It is nearly $3 \times 10^8 \text{ m s}^{-1}$.

B It is proportional to the cross-sectional area of the wire.

C It is proportional to the length of the wire.

D It is proportional to the magnitude of the current.