

32 A copper wire of cross-sectional area 2.0 mm^2 carries a current of 10A.

How many electrons pass through a given cross-section of the wire in one second?

A 1.0×10^1

B 5.0×10^6

C 6.3×10^{19}

D 3.1×10^{25}

33 A cylindrical piece of a soft electrically conducting material has resistance R . It is rolled out so