

24 The resistance of a piece of wire, length 1 m and diameter 0.3 mm, is R .

Another piece of wire, made of the same metal, is 2 m longer than the first wire. The diameter is 50% of that of the first wire.

What is the resistance of the second piece of wire?

A $4R$

B $6R$

C $8R$

D $12R$

25 A conductor PQ has a potential difference of 12 V between its ends. There is a current of 2 A in