

34 Gold is sometimes used to make very small connecting wires in electronic circuits.

A particular gold wire has length 2.50×10^{-3} m and cross-sectional area 6.25×10^{-8} m². Gold has resistivity 2.30×10^{-8} Ωm.

What is the resistance of the wire?

- A** 3.6×10^{-18} Ω
- B** 5.8×10^{-13} Ω
- C** 9.2×10^{-4} Ω
- D** 6.8×10^{-3} Ω

35 A resistor X of resistance 10Ω and a variable resistor are connected to a battery of electromotive