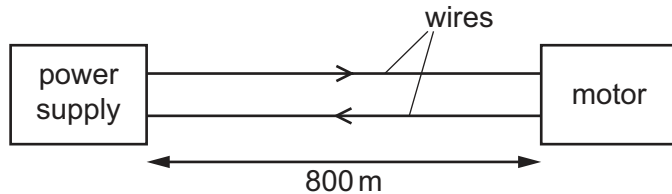


- 37** A motor is required to operate at a distance of 800 m from its power supply. The motor requires a potential difference (p.d.) of 16.0 V and a current of 0.60 A to operate.

Two wires are used to supply power to the motor as shown.



The resistance of each of these wires is  $0.0050\ \Omega$  per metre.

What is the minimum output p.d. of the power supply?

- A** 11.2 V                      **B** 16.0 V                      **C** 18.4 V                      **D** 20.8 V

- 38** Which elementary particle is a lepton?