

- 24** A power plant sends an average of 120 kW of electric power to a town by electrical cables. The cables have a total resistance of  $3.0\ \Omega$ .

What is the power lost in the cables if the power was transmitted at a voltage of 6.0 kV?

- A** 20 W
- B** 130 W
- C** 1200 W
- D**  $1.2 \times 10^7$  W