

- 28** Electrical power of 1.0 MW from a substation is to be transmitted at 66 kV r.m.s. via a 5.0 km long cable to a factory.

If the cable resistance is  $1.0 \, \Omega \, \text{km}^{-1}$ , what is the power loss in the transmission cable?

- |          |        |          |        |
|----------|--------|----------|--------|
| <b>A</b> | 1400 W | <b>B</b> | 1100 W |
| <b>C</b> | 460 W  | <b>D</b> | 230 W  |