

- 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?

A 1400 W

B 1100 W

C 460 W

D 230 W