28 The secondary coil of a step-up transformer is connected to an external load with cables of resistance 80 Ω. The number of turns in the primary coil and secondary coil is 120 and 480 respectively. The r.m.s. voltage of the primary coil is 500 V. The mean power provided by the primary coil is 3600 W.

What is the power dissipated in the cables?

A 260 W   **B** 4.1 kW   **C** 50 kW   **D** 66 kW