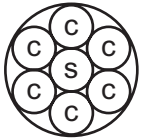
**32** An electric power cable consists of six copper wires c surrounding a steel core s.




1.0 km of one of the copper wires has a resistance of 10 Ω and 1.0 km of the steel core has a resistance of 100 Ω.

What is the approximate resistance of a 1.0 km length of the power cable?

**A** 0.61 Ω **B** 1.6 Ω **C** 160 Ω **D** 610 Ω