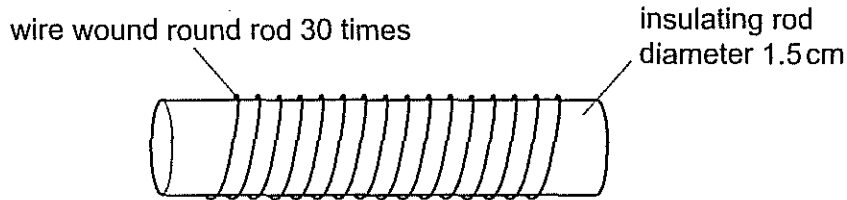26 The material of a wire has resistivity $1.3 \times 10^{-8}\,\Omega\,m$. The wire has diameter $0.50\,mm$ and its length is just enough to enable it to be wound tightly round an insulating rod 30 times. The rod has diameter $1.5\,cm$.

wire wound round rod 30 times

insulating rod
diameter $1.5\,cm$

What is the resistance of the wire?

A $1.1 \times 10^{1}\,\Omega$ **B** $9.4 \times 10^{-2}\,\Omega$ **C** $7.0 \times 10^{-4}\,\Omega$ **D** $4.7 \times 10^{-5}\,\Omega$