Soln2766: We have the initial resistance r_i and the final resistance r_f given by

$$r_i = r \frac{\ell}{A}$$
 and $r_f = r \frac{2\ell}{A/2} = r \frac{4\ell}{A}$. Therefore $r_f = 4 r_i$

Since power $P = V.I = V^2/r$ and the voltage remains the same P decreases by a factor of 4.