The figure shows two infinite straight line charges $\lambda = 2 \,\mu C/m$, a distance $d = 2 \,cm$ apart, moving along at a constant speed $v = 10 \,m/s$.

- > Calculate the current in each wire.
- > Chuculate the electrostatic force per unit length on each wire.
- > Chuculate the magnetostatic force per unit length on each wire.
- ➤ What should v be in order for the magnetic attraction to balance the electrical repulsion?

