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 $v=10 \mathrm{~m} / \mathrm{s}$.
$>$ 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?


