A twin-lead transmission line is made of brass wires with diameters of 1.2 mm, separated by 8 mm center-to-center, embedded in a dielectric insulator characterized by $\varepsilon = 1.6\varepsilon_0$, $\mu = \mu_0$, and $\sigma = 5 \times 10^{-6}$ S/m. Determine the skin depth δ and per-unit-length parameters R, L, C, and G at a frequency of 530 MHz.

$$O_{Brass} = 1.1 \times 10^{7} \, \text{Sm} \quad \text{per Appendix B}$$

$$M_{Brass} = M_{0}, \, \text{E}_{Brass} = E_{0}$$

$$M_{Srass} = M_{0}, \, \text{E}_{Brass} = E_{0}$$

$$M_{Frass} = M_{0}, \, \text{E}_{Brass} = M_{0}, \, \text{E}_{Brass} = M_{0}$$

$$M_{Frass} = M_{0}, \, \text{E}_{Brass} = M_{0}, \, \text{E}_{Brass} = M_{0}$$

$$M_{Frass} = M_{0}, \, \text{E}_{Brass} = M_{0}, \, \text{E}_{B$$