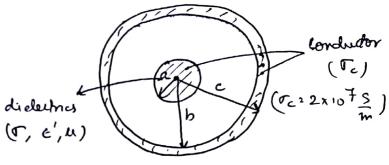
$$L = \frac{\mu}{2\pi} \ln(\frac{b}{a})$$

$$C = \frac{2\pi\epsilon'}{\ln(b/a)}$$

$$C = 113.1 \, pf/m$$



Q 2 4mm b 2 17.5mm C 2 20mm ER 2 3; MR 2 L; o TWC, 2 0.025

$$\frac{m}{1.62 \cdot 66 \times 10^{-3}} \cdot \frac{S}{m}$$

$$R = \frac{1}{2\pi S \sigma_c} \left[\frac{1}{a} + \frac{1}{b} \right]$$

$$S = \frac{1}{\sqrt{\pi} \mu \sigma} = \frac{9.188 \times 10^{-6} \text{ m}}{\sqrt{\pi} \sqrt{\pi}}$$

$$\therefore R = \frac{0.266 \frac{\pi}{m}}{\sqrt{\pi}}$$

for further reference please refer page no. 444 of william Hayt.