9-10

$\lambda_H = 14.2\ W/mK$

$d_A = 22 - 2 \cdot 2.5 = 17\ mm$

$d_B = 22\ mm$

$\alpha_A = 1050\ W/m^2K$

$\alpha_B = 3200\ W/m^2K$

$$K_L = \pi / \left\{ \frac{1}{d_A \cdot \alpha_A} + \frac{1}{2\lambda_H} \ln \frac{d_{i+1}}{d_i} + \frac{1}{\alpha_B \cdot d_B} \right\}$$

$$K_L = \pi / \left\{ \frac{1}{17 \cdot 10^{-3} \cdot 1050} + \frac{1}{2 \cdot 14.2} \ln \frac{22 \cdot 10^{-3}}{17 \cdot 10^{-3}} + \frac{1}{22 \cdot 10^{-3} \cdot 3200} \right\}$$

$$K_L = 39.61\ W/m^2K$$