# Chapter 10
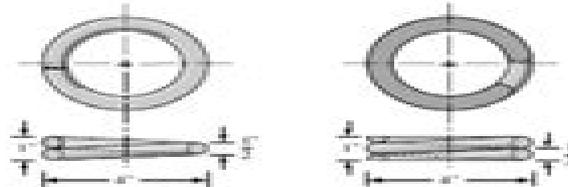
**10-1**



**10-2**    $A = Sd^m$

$$\dim(A_{uscu}) = \dim(S)\,\dim(d^m) = \text{kpsi} \cdot \text{in}^m$$
$$\dim(A_{SI}) = \dim(S_1)\,\dim(d_1^m) = \text{MPa} \cdot \text{mm}^m$$
$$A_{SI} = \frac{\text{MPa}}{\text{kpsi}} \cdot \frac{\text{mm}^m}{\text{in}^m}\,A_{uscu} = 6.894\,757(25.40)^m A_{uscu} \doteq 6.895(25.4)^m A_{uscu} \quad \textit{Ans.}$$

For music wire, from Table 10-4:

$$A_{uscu} = 201, \quad m = 0.145; \quad \text{what is } A_{SI}?$$
$$A_{SI} = 6.89(25.4)^{0.145}(201) = 2214 \text{ MPa} \cdot \text{mm}^m \quad \textit{Ans.}$$

**10-3**    Given: Music wire, $d = 0.105$ in, OD $= 1.225$ in, plain ground ends, $N_t = 12$ coils.

Table 10-1:
$$N_a = N_t - 1 = 12 - 1 = 11$$
$$L_s = dN_t = 0.105(12) = 1.26 \text{ in}$$

Table 10-4:
$$A = 201, \quad m = 0.145$$

**(a)**  Eq. (10-14):
$$S_{ut} = \frac{201}{(0.105)^{0.145}} = 278.7 \text{ kpsi}$$

Table 10-6:
$$S_{sy} = 0.45(278.7) = 125.4 \text{ kpsi}$$
$$D = 1.225 - 0.105 = 1.120 \text{ in}$$
$$C = \frac{D}{d} = \frac{1.120}{0.105} = 10.67$$

Eq. (10-6):
$$K_B = \frac{4(10.67) + 2}{4(10.67) - 3} = 1.126$$

Eq. (10-3):
$$F|_{S_{sy}} = \frac{\pi d^3 S_{sy}}{8K_B D} = \frac{\pi(0.105)^3(125.4)(10^3)}{8(1.126)(1.120)} = 45.2 \text{ lbf}$$

Eq. (10-9):
$$k = \frac{d^4 G}{8D^3 N_a} = \frac{(0.105)^4(11.75)(10^6)}{8(1.120)^3(11)} = 11.55 \text{ lbf/in}$$

$$L_0 = \frac{F|_{S_{sy}}}{k} + L_s = \frac{45.2}{11.55} + 1.26 = 5.17 \text{ in} \quad \textit{Ans.}$$

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