



Coned Extension Springs or Conical End Reduced Extension Springs are made by coiling two or three or even four coils of the spring body gradually smaller in diameter.

As with straight-bodied extension springs, a wide variety of ends are available for Coned Extension Springs including machine (twist) loops, crossover center loops, side loops, threaded inserts, swivel hooks, and extended hooks. The most common configurations can be made in conjunction with the manufacture of the conical extension springs bodies.

Coned Extension Springs are best suited for heavy duty or high cycle applications. The hooks can be designed for extended life, as compared to standard extension springs of similar dimensions. Swivel hook configurations can be particularly advantageous in that the ends are free to rotate to assure alignment and reduce hook stress.

### Comprehensive Capabilities

#### End Configurations:

- Machine (Twist) Loops • Crossover Center Loops
- Side Loops • Threaded Inserts • Regular Extended Hook
- Crossover Center Hooks • Swivel hooks

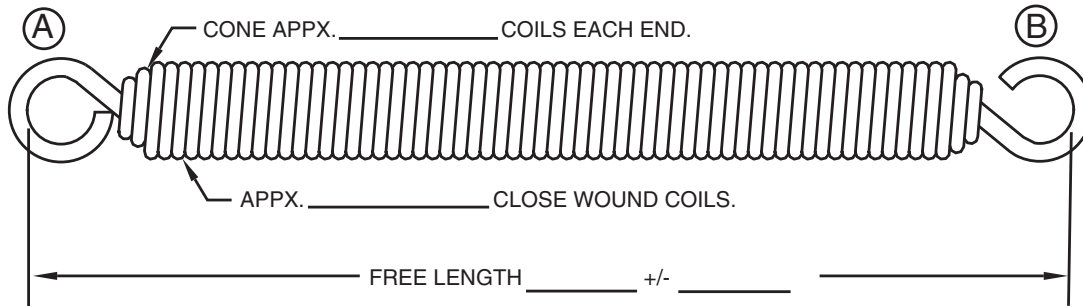
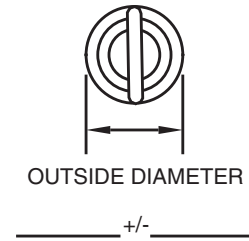
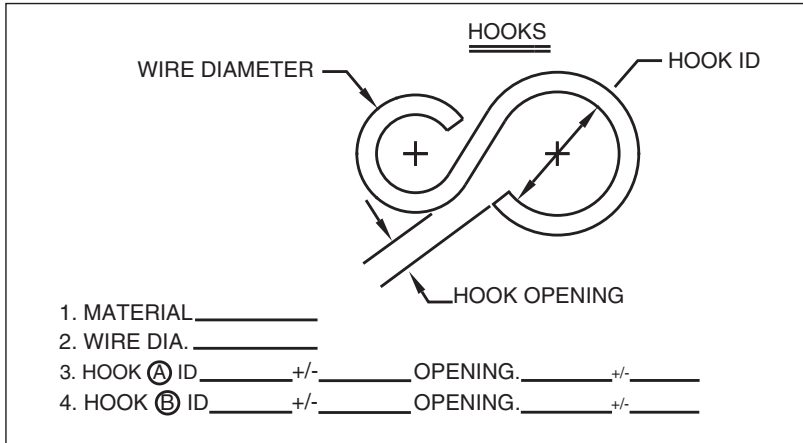
#### Secondaries:

- Stress Relieve • Heat Treating • Passivation
- Plating • Painting • Powder Coating

#### Wire sizes from .004" through .625"

#### Materials:

- Carbon Steels • Alloy Steels
- Stainless Steel 17-7, 301, 302 and 316 • Phosphor Bronze
- Hastelloy • Inconel 600, 718 and x750
- Beryllium Copper • Elgiloy



**INDICATE UNITS OF MEASURE (IN. & LB.), (MM & KG)**

1. MATERIAL \_\_\_\_\_
2. WIRE DIAMETER \_\_\_\_\_
3. DIRECTION OF WIND      OPT      LH      RH
4. IT \_\_\_\_\_ +/- \_\_\_\_\_
5. RATE \_\_\_\_\_ +/- \_\_\_\_\_ BETWEEN \_\_\_\_\_ & \_\_\_\_\_
6. LOAD 1 \_\_\_\_\_ +/- \_\_\_\_\_ @ \_\_\_\_\_
7. LOAD 2 \_\_\_\_\_ +/- \_\_\_\_\_ @ \_\_\_\_\_
8. MAXIMUM EXTENDED LENGTH (INSIDE ENDS) WITHOUT SET \_\_\_\_\_
9. FINISH \_\_\_\_\_
10. FREQUENCY OF EXTENSION  
 \_\_\_\_\_ CYCLES/SEC. AND WORKING RANGE  
 \_\_\_\_\_ IN. TO \_\_\_\_\_ IN. OF LENGTH
11. OPERATING TEMP. \_\_\_\_\_ °F
12. OTHER: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
 \_\_\_\_\_

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

CONTACT: \_\_\_\_\_

PHONE: \_\_\_\_\_

FAX: \_\_\_\_\_

EMAIL: \_\_\_\_\_

QUANTITIES TO BE QUOTED: \_\_\_\_\_

END USE OR APPLICATION: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CUSTOM SPRINGS