Extension springs absorb and store energy as well as create a resistance to a pulling force. It is initial tension that determines how tightly together an extension spring is coiled. This initial tension can be manipulated to achieve the load requirements of a particular application.

Extension springs are often tightly wound in the free (no-load) position and have loops, hooks, eyes, or other interface geometry at the ends to attach to the components they connect. They are frequently used to provide return force to components that extend in the actuated position.

Comprehensive Capabilities

End Configurations:
- Machine (Twist) Loops • Crossover Center Loops
- Side Loops • Extended Hooks • Crossover Center Hooks
- Rectangular Ends • Teardrop Ends • Threaded Inserts

Secondaries:
- Stress Relieve • Heat Treating • Passivation
- Painting • Plating
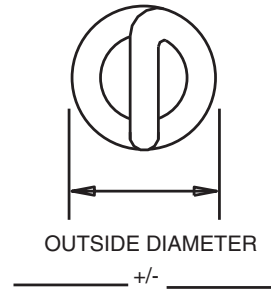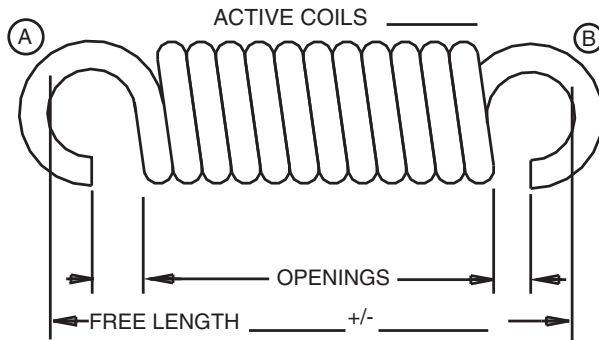
Wire sizes from .002" through .625"

Materials:
- Carbon Steels • Alloy Steels
- Stainless Steel 17-7, 302, 304 and 316
- Phosphor Bronze
- Hastelloy • Inconel 600, 718 and x750
- Beryllium Copper • Elgiloy®†

† Elgiloy is a trademark of Elgiloy Ltd. Partnership.

END STYLE	I MACHINE LOOPS	II CROSSOVER	III SIDE LOOPS	IV EXTENDED HOOKS
LOOP TYPE				
RECOMMENDED LOOP LENGTH.				
MIN	1/2 I.D.	I.D.	I.D.	1.1 x I.D.
MAX	1.1 x I.D.	I.D.	I.D.	AS REQUIRED

LOOP/HOOK (A) LENGTH_____ +/-_____ OPENING._____ +/-_____
LOOP/HOOK (B) LENGTH_____ +/-_____ OPENING._____ +/-_____

ACTIVE COILS _____

OUTSIDE DIAMETER
_____ +/- _____

OPENINGS

FREE LENGTH _____ +/- _____

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

1. **MATERIAL** _____

2. **WIRE DIAMETER** _____

3. **DIRECTION OF WIND**   OPT   LH   RH

4. **STYLE OF END**   (A)   I   II   III   IV
   (See Above)   (B)   I   II   III   IV

5. **IT** _____

6. **RATE** _____ +/- _____ BETWEEN _____ & _____

7. **LOAD 1** _____ +/- _____ @ _____

8. **LOAD 2** _____ +/- _____ @ _____

9. **MAXIMUM EXTENDED LENGTH (INSIDE ENDS) WITHOUT SET** _____

10. **RELATIVE LOOP POSITION:**
    _____ RANDOM OR _____
    ALIGNED AT_____ DEGREES +/- _____ DEGREES

11. **FINISH** _____

12. **FREQUENCY OF EXTENSION**
    _____ CYCLES/SEC. AND WORKING RANGE
    _____ IN. TO _____ IN. OF LENGTH

13. **OPERATING TEMP.** _____ °F

14. **OTHER:** _____
    _____

COMPANY: _____

ADDRESS: _____

_____

CITY: _____

STATE: _____ ZIP: _____

CONTACT: _____

PHONE: _____

FAX: _____

EMAIL: _____

QUANTITIES TO BE QUOTED: _____

END USE OR APPLICATION: _____

_____

_____

_____

CUSTOM SPRINGS