



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 • Plating
- Painting • Powder Coating

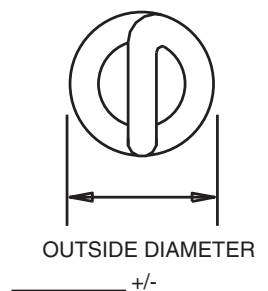
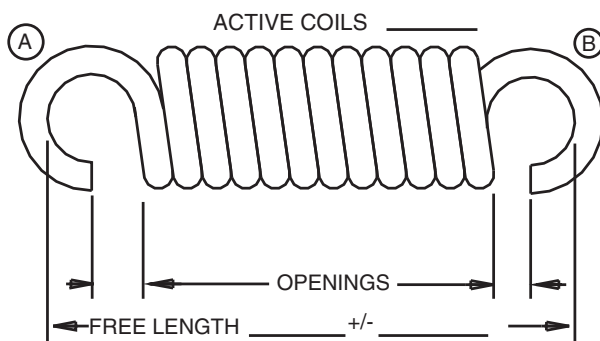
Wire sizes from .004" through .625"

Materials:

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

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 _____ +/- _____



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

- MATERIAL _____
- WIRE DIAMETER _____
- DIRECTION OF WIND OPT LH RH
- STYLE OF END (A) I II III IV
 (See Above) (B) I II III IV
- IT _____
- RATE _____ +/- _____ BETWEEN _____ & _____
- LOAD 1 _____ +/- _____ @ _____
- LOAD 2 _____ +/- _____ @ _____
- MAXIMUM EXTENDED LENGTH (INSIDE ENDS) WITHOUT SET _____
- RELATIVE LOOP POSITION:
 _____ RANDOM OR _____
 ALIGNED AT _____ DEGREES +/- _____ DEGREES
- FINISH _____
- FREQUENCY OF EXTENSION
 _____ CYCLES/SEC. AND WORKING RANGE
 _____ IN. TO _____ IN. OF LENGTH
- OPERATING TEMP. _____ °F
- OTHER: _____

COMPANY: _____
 ADDRESS: _____

 CITY: _____
 STATE: _____ ZIP: _____
 CONTACT: _____
 PHONE: _____
 FAX: _____
 EMAIL: _____
 QUANTITIES TO BE QUOTED: _____
 END USE OR APPLICATION: _____

CUSTOM SPRINGS