

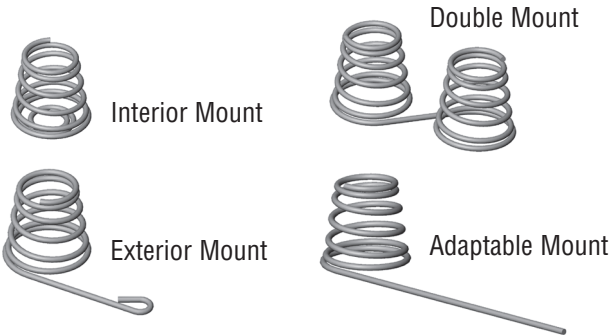
# Battery Spring Series

## Variable Mounts for Common Battery Sizes



Lee Springs Battery Series Springs offer conical springs that are perfect for prototyping through large production runs. Available to fit most battery sizes: AAA, AA, C, and D. These stock springs are available in four mounting designs, including an adaptable style which can be easily configured to your specific application. Designed to adjust to various battery lengths and to provide low contact resistance and dependable connections.

### Mounting Types:



### Materials:

- Nickel Coated Music Wire:** Since most alkaline batteries have nickel plated containers, a nickel coating for the metal contacts is suitable. The use of similar materials removes the possibility of galvanic corrosion and aids in wear resistance. Nickel will also tend to wipe and aid in breaking down the oxide that can form on the battery metal contact surface. In addition, a nickel coating will provide general corrosion resistance and is an excellent conductor of electricity.
- Silver Coated Beryllium Copper:** Beryllium Copper is among the hardest, strongest and most wear-resistant of copper alloys. Silver coating further enhances electrical and thermal conductivity. The electric conductivity is 65-70% that of copper; the strength and fatigue resistance are comparable to higher beryllium alloys. The light silver coating allows for easy soldering. Beryllium copper is corrosion resistant in various environments and is both non-magnetic and non-sparking.

The Lee Spring Battery Series is ideal for use in molded cases with self-contained battery compartments or in many other common mounting applications.



Lee Spring can manufacture custom battery springs to your specifications. Contact us today!

# Battery Spring Series

## Guide to using tables

**Lee Stock Number:**  
Lee Spring Part Number

**Wire Diameter:**  
Wire diameter of spring wire.

**ID Top:**  
The inside diameter at the top coil of the spring.

**ID Eyelet:**  
The inside diameter of the eyelet at the spring end, where applicable.

**Center to Center Length:**  
The distance between points as shown in graphics, dependent on mounting type.

**Price Group:**  
Reference for price list. See fold-out section at rear of book.

INTERIOR MOUNT BATTERY SPRINGS																		
Music Wire (Nickel Coated)																		
LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO CENTER LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LB 024A 01 AA	AA	0.024	0.61	0.390	9.91	0.220	5.59	0.440	11.18	0.110	2.79	1.750	0.79	0.142	3.61	N/A	N/A	J
LB 024A 01 AAA	AAA	0.024	0.61	0.360	9.14	0.160	4.06	0.355	9.02	0.110	2.79	1.500	0.68	0.195	4.95	N/A	N/A	J
LB 032A 01 C	C	0.032	0.81	0.540	13.72	0.330	8.38	0.520	13.21	0.175	4.45	1.000	0.45	0.340	8.64	N/A	N/A	J
LB 036A 01 D	D	0.036	0.91	0.660	16.76	0.360	9.14	0.720	18.29	0.175	4.45	3.000	1.36	0.175	4.45	N/A	N/A	J

**Battery Size:**  
The battery size the spring has been designed to work with.

**OD Base:**  
The outside diameter at the base coil of the spring.

**Free Length:**  
The overall height of the spring in the unloaded position.

**Approx Load:**  
The load or force required to reach the installed height.

**@ Installed Height:**  
The suggested design height for the compressed spring after a battery installation.

### Additional Information

- Adaptable Mount type battery springs have an extended leg which can be configured for mounting as needed.
- Custom battery springs, spring loaded contacts or stampings can be manufactured to fit your application.

### How to Determine Price

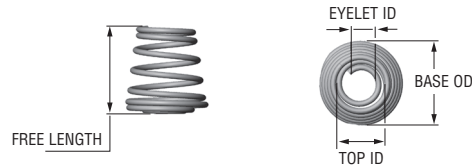
- Select the spring you want by LEE STOCK NUMBER.
- Read across to the last column PRICE GROUP to obtain the price code: when applicable, select the price code that corresponds to the material type required.
- Refer to the PRICE GROUP in the appropriate pricing chart by spring type located in the back of this catalog for pricing up to 199 pieces of an item.
- Prices subject to change without notice.

#### FREE SHIPPING AVAILABLE

See Price List in back of catalog for details.

# SPECIALTY STOCK PARTS: BATTERY SPRINGS

Music Wire (Nickel Coated) or Beryllium Copper (Silver Coated)



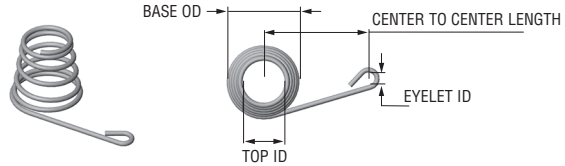
## INTERIOR MOUNT BATTERY SPRINGS

Music Wire (Nickel Coated)

LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO CENTER LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LB 024A 01 AA	AA	0.024	0.61	0.390	9.91	0.220	5.59	0.440	11.18	0.110	2.79	1.750	0.79	0.142	3.61	N/A	N/A	J
LB 024A 01 AAA	AAA	0.024	0.61	0.360	9.14	0.160	4.06	0.355	9.02	0.110	2.79	1.500	0.68	0.195	4.95	N/A	N/A	J
LB 032A 01 C	C	0.032	0.81	0.540	13.72	0.330	8.38	0.520	13.21	0.175	4.45	1.000	0.45	0.340	8.64	N/A	N/A	J
LB 036A 01 D	D	0.036	0.91	0.660	16.76	0.360	9.14	0.720	18.29	0.175	4.45	3.000	1.36	0.175	4.45	N/A	N/A	J

Beryllium Copper (Silver Coated)

LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO CENTER LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LBC 028A 01 AA	AA	0.028	0.71	0.390	9.91	0.220	5.59	0.440	11.18	0.110	2.79	1.750	0.79	0.142	3.61	N/A	N/A	R
LBC 028A 01 AAA	AAA	0.028	0.71	0.360	9.14	0.160	4.06	0.355	9.02	0.110	2.79	1.500	0.68	0.195	4.95	N/A	N/A	R
LBC 038A 01 C	C	0.038	0.97	0.540	13.72	0.330	8.38	0.520	13.21	0.175	4.45	1.000	0.45	0.340	8.64	N/A	N/A	T
LBC 040A 01 D	D	0.040	1.02	0.660	16.76	0.360	9.14	0.720	18.29	0.175	4.45	3.000	1.36	0.175	4.45	N/A	N/A	Z



## EXTERIOR MOUNT BATTERY SPRINGS

Music Wire (Nickel Coated)

LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO CENTER LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LB 024B 01 AA	AA	0.024	0.61	0.390	9.91	0.220	5.59	0.440	11.18	0.110	2.79	1.750	0.79	0.142	3.61	0.545	13.84	J
LB 024B 01 AAA	AAA	0.024	0.61	0.360	9.14	0.160	4.06	0.355	9.02	0.110	2.79	1.500	0.68	0.195	4.95	0.478	12.14	J
LB 032B 01 C	C	0.032	0.81	0.540	13.72	0.330	8.38	0.520	13.21	0.175	4.45	1.000	0.45	0.340	8.64	0.984	24.99	J
LB 036B 01 D	D	0.036	0.91	0.660	16.76	0.360	9.14	0.720	18.29	0.175	4.45	3.000	1.36	0.175	4.45	1.218	30.94	J

Beryllium Copper (Silver Coated)

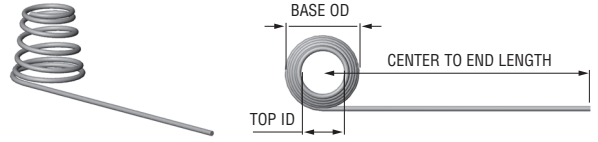
LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO CENTER LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LBC 028B 01 AA	AA	0.028	0.71	0.390	9.91	0.220	5.59	0.440	11.18	0.110	2.79	1.750	0.79	0.142	3.61	0.545	13.84	R
LBC 028B 01 AAA	AAA	0.028	0.71	0.360	9.14	0.160	4.06	0.355	9.02	0.110	2.79	1.500	0.68	0.195	4.95	0.478	12.14	R
LBC 038B 01 C	C	0.038	0.97	0.540	13.72	0.330	8.38	0.520	13.21	0.175	4.45	1.000	0.45	0.340	8.64	0.984	24.99	T
LBC 040B 01 D	D	0.040	1.02	0.660	16.76	0.360	9.14	0.720	18.29	0.175	4.45	3.000	1.36	0.175	4.45	1.218	30.94	Z

### SPECIAL INSTRUCTIONS FOR BATTERY SPRINGS

**PRICING:** See Inside Back Cover for up to 199 pricing. To price or order up to 599 pieces, visit [www.leespring.com](http://www.leespring.com); 600+ pieces, contact Lee Spring.  
**CUSTOM DESIGNS:** Custom Battery Springs are available on request; see Custom Springs Section for Battery Springs specification form.

## SPECIALTY STOCK PARTS: BATTERY SPRINGS

Music Wire (Nickel Coated) or Beryllium Copper (Silver Coated)



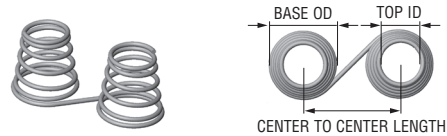
### ADAPTABLE MOUNT BATTERY SPRINGS

Music Wire (Nickel Coated)

LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO END LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LB 024C 01 AA	AA	0.024	0.61	0.390	9.91	0.220	5.59	0.440	11.18	N/A	N/A	1.750	0.79	0.142	3.61	3.000	76.20	F
LB 024C 01 AAA	AAA	0.024	0.61	0.360	9.14	0.160	4.06	0.355	9.02	N/A	N/A	1.500	0.68	0.195	4.95	3.000	76.20	F
LB 032C 01 C	C	0.032	0.81	0.540	13.72	0.330	8.38	0.520	13.21	N/A	N/A	1.000	0.45	0.340	8.64	3.000	76.20	F
LB 036C 01 D	D	0.036	0.91	0.660	16.76	0.360	9.14	0.720	18.29	N/A	N/A	3.000	1.36	0.175	4.45	3.000	76.20	F

Beryllium Copper (Silver Coated)

LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO END LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LBC 028C 01 AA	AA	0.028	0.71	0.390	9.91	0.220	5.59	0.440	11.18	N/A	N/A	1.750	0.79	0.142	3.61	3.000	76.20	N
LBC 028C 01 AAA	AAA	0.028	0.71	0.360	9.14	0.160	4.06	0.355	9.02	N/A	N/A	1.500	0.68	0.195	4.95	3.000	76.20	N
LBC 038C 01 C	C	0.038	0.97	0.540	13.72	0.330	8.38	0.520	13.21	N/A	N/A	1.000	0.45	0.340	8.64	3.000	76.20	T
LBC 040C 01 D	D	0.040	1.02	0.660	16.76	0.360	9.14	0.720	18.29	N/A	N/A	3.000	1.36	0.175	4.45	3.000	76.20	AE



### DOUBLE MOUNT BATTERY SPRINGS

Music Wire (Nickel Coated)

LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO CENTER LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LB 024D 01 AA	AA	0.024	0.61	0.390	9.91	0.220	5.59	0.440	11.18	N/A	N/A	1.750	0.79	0.142	3.61	0.620	15.75	T
LB 024D 01 AAA	AAA	0.024	0.61	0.360	9.14	0.160	4.06	0.355	9.02	N/A	N/A	1.500	0.68	0.195	4.95	0.466	11.84	T
LB 032D 01 C	C	0.032	0.81	0.540	13.72	0.330	8.38	0.520	13.21	N/A	N/A	1.000	0.45	0.340	8.64	1.070	27.18	T
LB 036D 01 D	D	0.036	0.91	0.660	16.76	0.360	9.14	0.720	18.29	N/A	N/A	3.000	1.36	0.175	4.45	1.340	34.04	T

Beryllium Copper (Silver Coated)

LEE STOCK NUMBER	BATTERY SIZE	WIRE DIAMETER		OD BASE		ID TOP		FREE LENGTH		ID EYELET		APPROX LOAD		@ INSTALLED HEIGHT		CENTER TO CENTER LENGTH		PRICE CODE
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LB.	KG	IN.	MM	IN.	MM	
LBC 028D 01 AA	AA	0.028	0.71	0.390	9.91	0.220	5.59	0.440	11.18	N/A	N/A	1.750	0.79	0.142	3.61	0.620	15.75	W
LBC 028D 01 AAA	AAA	0.028	0.71	0.360	9.14	0.160	4.06	0.355	9.02	N/A	N/A	1.500	0.68	0.195	4.95	0.466	11.84	AA
LBC 038D 01 C	C	0.038	0.97	0.540	13.72	0.330	8.38	0.520	13.21	N/A	N/A	1.000	0.45	0.340	8.64	1.070	27.18	AJ
LBC 040D 01 D	D	0.040	1.02	0.660	16.76	0.360	9.14	0.720	18.29	N/A	N/A	3.000	1.36	0.175	4.45	1.340	34.04	AO

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