Extension Springs: Instrument Series

Selection to Match Your Needs

The Lee Spring Extension Spring Instrument Series includes a wide range of size and rate combinations in a smaller, highly precise spring design. Selections are sorted in ascending order based on outside diameter.

Instrument Series Extension Springs are available in both inch and metric sizes. Sizes range from outside diameters from .063" up to .157" and free lengths from .250" to 1.181".

Inch Series springs are available in Music Wire, Type 302 Stainless Steel and Type 316 Stainless Steel. Metric Series springs are available in Music Wire and Type 302 Stainless Steel. The Music Wire springs are made from coated wire or provided with a plating finish for light corrosion resistance. The Type 302 Stainless Steel springs are passivated, while Type 316 Stainless Steel springs are passivated and ultrasonically cleaned.

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

Extension Springs: Instrument Series

Guide to using tables

Lee Stock Number:
Lee Spring Part Number, add suffix M for Music Wire, S for Stainless Steel or S316 for Type 316 Stainless Steel.

Maximum Load:
Design load to extend the spring to its maximum extended length for Music Wire.

Initial Tension:
Force that keeps the coils closed and which must be overcome before the coils start to move.

Spring Rate:
The change in load over unit of deflection.

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

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
EI 007A 01									0.250	6.35	1.000	.018	0.540	13.72	K	L	T
EI 007A 02									0.313	7.95	0.690	.012	0.733	18.62	K	L	T
EI 007A 03	.063	1.60	.007	.18	.320	.145	.030	.014	0.375	9.53	0.530	.009	0.925	23.50	K	L	T
EI 007A 04									0.438	11.13	0.430	.008	1.108	28.14	K	L	T
EI 007A 05			**SEE NOTE ON PAGE 5 UNDER FINISH						0.500	12.70	0.360	.006	1.310	33.27	K	L	T
EI 008A 01									0.250	6.35	2.000	.03	0	1	K	L	T

Outside Diameter:
Spring outer diameter, parts listed in ascending order.

Wire Diameter:
In ascending order of size, within each group of outside diameters.

Free Length:
Length of the spring in the unloaded position, measured from inside the loops.

Maximum Extended Length:
Suggested longest operating spring position to avoid loading overstress. For Type 316 Stainless Steel, reduce to approximately 75%–90% of these lengths.

Additional Information

- To determine the load at any working length, when free length, rate and initial tension are given, use the formula: P=(R x F) + I.T. where P is the load in lbs.; R is the rate in lbs. per inch; F is the deflection from free length; I.T. is the initial tension.
- The free length of an extension spring is measured from inside the end loops. To obtain the overall length add two wire diameters to the given length.
- As with compression springs, in order to achieve long life and service, good design suggests that extension springs not exceed beyond 80% of their deflection capability.

How to Determine Price

1. Select the spring you want by LEE STOCK NUMBER.
2. 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.
3. 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.
4. Prices subject to change without notice.

FREE SHIPPING AVAILABLE
See Price List in back of catalog for details.

LOOPS AT RANDOM POSITION • **Music Wire (Plated**), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
EI 007A 01	.063	1.60	.007	.18	.320	.145	.030	.014	0.250	6.35	1.000	.018	0.540	13.72	K	L	T
EI 007A 02									0.313	7.95	0.690	.012	0.733	18.62	K	L	T
EI 007A 03									0.375	9.53	0.530	.009	0.925	23.50	K	L	T
EI 007A 04									0.438	11.13	0.430	.008	1.108	28.14	K	L	T
EI 007A 05			**SEE NOTE ON PAGE 5 UNDER FINISH						0.500	12.70	0.360	.006	1.310	33.27	K	L	T
EI 008A 01	.063	1.60	.008	.20	.450	.204	.040	.018	0.250	6.35	2.000	.036	0.460	11.68	K	L	T
EI 008A 02									0.313	7.95	1.400	.025	0.603	15.32	K	L	T
EI 008A 03									0.375	9.53	1.100	.020	0.745	18.92	K	L	T
EI 008A 04									0.438	11.13	0.880	.016	0.908	23.06	K	L	T
EI 008A 05									0.500	12.70	0.740	.013	1.050	26.67	K	L	T
EI 008A 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.625	15.88	0.570	.010	1.345	34.16	K	L	T
EI 008A 07									0.750	19.05	0.460	.008	1.640	41.66	K	L	T
EI 008A 08									0.875	22.23	0.380	.007	1.955	49.66	K	L	T
EI 009A 01	.063	1.60	.009	.23	.620	.281	.060	.027	0.250	6.35	3.700	.066	0.400	10.16	K	L	T
EI 009A 02									0.313	7.95	2.700	.048	0.523	13.28	K	L	T
EI 009A 03									0.375	9.53	2.100	.038	0.645	16.38	K	L	T
EI 009A 04									0.438	11.13	1.700	.030	0.768	19.51	K	L	T
EI 009A 05									0.500	12.70	1.400	.025	0.900	22.86	K	L	T
EI 009A 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.625	15.88	1.100	.020	1.135	28.83	K	L	T
EI 009A 07									0.750	19.05	0.860	.015	1.400	35.56	K	L	T
EI 009A 08									0.875	22.23	0.720	.013	1.655	42.04	K	L	T
EI 011A 01	.063	1.60	.011	.28	1.140	.517	.100	.045	0.250	6.35	11.100	.198	0.344	8.74	K	L	T
EI 011A 02									0.313	7.95	7.900	.141	0.445	11.30	K	L	T
EI 011A 03									0.375	9.53	5.900	.105	0.551	14.00	K	L	T
EI 011A 04									0.438	11.13	4.800	.086	0.655	16.64	K	L	T
EI 011A 05									0.500	12.70	4.100	.073	0.754	19.15	K	L	T
EI 011A 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.625	15.88	3.200	.057	0.950	24.13	K	L	T
EI 011A 07									0.750	19.05	2.500	.045	1.166	29.62	K	L	T
EI 007AA 01	.078	1.98	.007	.18	.257	.117	.025	.011	0.250	6.35	0.611	.011	0.630	16.00	K	L	T
EI 007AA 02									0.313	7.95	0.394	.007	0.902	22.91	K	L	T
EI 007AA 03									0.375	9.53	0.292	.005	1.169	29.69	K	L	T
EI 007AA 04									0.438	11.13	0.231	.004	1.441	36.60	K	L	T
EI 007AA 05			**SEE NOTE ON PAGE 5 UNDER FINISH						0.500	12.70	0.192	.003	1.709	43.41	K	L	T
EI 008AA 01	.078	1.98	.008	.20	.386	.175	.035	.016	0.250	6.35	1.210	.022	0.540	13.72	K	L	T
EI 008AA 02									0.313	7.95	0.789	.014	0.759	19.28	K	L	T
EI 008AA 03									0.375	9.53	0.587	.010	0.973	24.71	K	L	T
EI 008AA 04									0.438	11.13	0.466	.008	1.192	30.28	K	L	T
EI 008AA 05									0.500	12.70	0.388	.007	1.407	35.74	K	L	T
EI 008AA 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.625	15.88	0.289	.005	1.840	46.74	K	L	T
EI 008AA 07									0.750	19.05	0.231	.004	2.273	57.73	K	L	T
EI 008AA 08									0.875	22.23	0.192	.003	2.706	68.73	K	L	T

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: INSTRUMENT SERIES (INCH)

LOOPS AT RANDOM POSITION • ***Music Wire (Plated**), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)***

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
EI 009AA 01	.078	1.98	.009	.23	.555	.252	.050	.023	0.250	6.35	2.221	.040	0.477	12.12	K	L	T
EI 009AA 02									0.313	7.95	1.459	.026	0.659	16.74	K	L	T
EI 009AA 03									0.375	9.53	1.091	.019	0.838	21.29	K	L	T
EI 009AA 04									0.438	11.13	0.869	.016	1.020	25.91	K	L	T
EI 009AA 05									0.500	12.70	0.723	.013	1.198	30.43	K	L	T
EI 009AA 06			****SEE NOTE ON PAGE 5 UNDER FINISH**						0.625	15.88	0.541	.010	1.559	39.60	K	L	T
EI 009AA 07									0.750	19.05	0.432	.008	1.919	48.74	K	L	T
EI 009AA 08									0.875	22.23	0.360	.006	2.280	57.91	K	L	T
EI 011AA 01	.078	1.98	.011	.28	1.030	.467	.090	.041	0.250	6.35	6.302	.113	0.399	10.13	K	L	T
EI 011AA 02									0.313	7.95	4.209	.075	0.536	13.61	K	L	T
EI 011AA 03									0.375	9.53	3.173	.057	0.671	17.04	K	L	T
EI 011AA 04									0.438	11.13	2.538	.045	0.808	20.52	K	L	T
EI 011AA 05									0.500	12.70	2.120	.038	0.943	23.95	K	L	T
EI 011AA 06									0.625	15.88	1.592	.028	1.216	30.89	K	L	T
EI 011AA 07			****SEE NOTE ON PAGE 5 UNDER FINISH**						0.750	19.05	1.274	.023	1.488	37.80	K	L	T
EI 011AA 08									0.875	22.23	1.062	.019	1.760	44.70	K	L	T
EI 010B 01	.094	2.39	.010	.25	.600	.272	.050	.023	0.375	9.53	1.200	.021	0.835	21.21	K	L	T
EI 010B 02									0.438	11.13	0.940	.017	1.028	26.11	K	L	T
EI 010B 03									0.500	12.70	0.760	.014	1.220	30.99	K	L	T
EI 010B 04									0.625	15.88	0.560	.010	1.605	40.77	K	L	T
EI 010B 05									0.750	19.05	0.440	.008	2.000	50.80	K	L	T
EI 010B 06			****SEE NOTE ON PAGE 5 UNDER FINISH**						0.875	22.23	0.360	.006	2.405	61.09	K	L	T
EI 010B 07									1.000	25.40	0.310	.006	2.770	70.36	K	L	T
EI 011B 01	.094	2.39	.011	.28	.800	.363	.070	.032	0.375	9.53	2.000	.036	0.745	18.92	K	L	T
EI 011B 02									0.438	11.13	1.530	.027	0.918	23.32	K	L	T
EI 011B 03									0.500	12.70	1.260	.023	1.080	27.43	K	L	T
EI 011B 04									0.625	15.88	0.930	.017	1.405	35.69	K	L	T
EI 011B 05									0.750	19.05	0.730	.013	1.750	44.45	K	L	T
EI 011B 06			****SEE NOTE ON PAGE 5 UNDER FINISH**						0.875	22.23	0.600	.011	2.095	53.21	K	L	T
EI 011B 07									1.000	25.40	0.517	.009	2.400	60.96	K	L	T
EI 012B 01	.094	2.39	.012	.30	1.000	.454	.100	.045	0.375	9.53	3.200	.057	0.655	16.64	K	L	T
EI 012B 02									0.438	11.13	2.400	.043	0.818	20.78	K	L	T
EI 012B 03									0.500	12.70	2.000	.036	0.950	24.13	K	L	T
EI 012B 04									0.625	15.88	1.500	.027	1.225	31.12	K	L	T
EI 012B 05									0.750	19.05	1.200	.021	1.500	38.10	K	L	T
EI 012B 06			****SEE NOTE ON PAGE 5 UNDER FINISH**						0.875	22.23	0.960	.017	1.815	46.10	K	L	T
EI 012B 07									1.000	25.40	0.820	.015	2.100	53.34	K	L	T

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated**), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
EI 013B 01	.094	2.39	.013	.33	1.250	.567	.130	.059	0.375	9.53	4.800	.086	0.605	15.37	K	L	T
EI 013B 02									0.438	11.13	3.700	.066	0.738	18.75	K	L	T
EI 013B 03									0.500	12.70	3.100	.055	0.860	21.84	K	L	T
EI 013B 04									0.625	15.88	2.260	.040	1.125	28.58	K	L	T
EI 013B 05									0.750	19.05	1.800	.032	1.370	34.80	K	L	T
EI 013B 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.875	22.23	1.500	.027	1.625	41.28	K	L	T
EI 013B 07									1.000	25.40	1.270	.023	1.880	47.75	K	L	T
EI 014B 01	.094	2.39	.014	.36	1.500	.680	.170	.077	0.375	9.53	7.100	.127	0.565	14.35	K	L	T
EI 014B 02									0.438	11.13	5.500	.098	0.678	17.22	K	L	T
EI 014B 03									0.500	12.70	4.600	.082	0.790	20.07	K	L	T
EI 014B 04									0.625	15.88	3.400	.061	1.015	25.78	K	L	T
EI 014B 05									0.750	19.05	2.700	.048	1.240	31.50	K	L	T
EI 014B 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.875	22.23	2.200	.039	1.475	37.47	K	L	T
EI 014B 07									1.000	25.40	1.900	.034	1.700	43.18	K	L	T
EI 016B 01	.094	2.39	.016	.41	2.260	1.025	.190	.086	0.375	9.53	14.200	.254	0.521	13.23	K	L	T
EI 016B 02									0.438	11.13	11.000	.196	0.626	15.90	K	L	T
EI 016B 03									0.500	12.70	9.200	.164	0.725	18.42	K	L	T
EI 016B 04									0.625	15.88	6.800	.121	0.929	23.60	K	L	T
EI 016B 05									0.750	19.05	5.300	.095	1.141	28.98	K	L	T
EI 016B 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.875	22.23	4.400	.079	1.345	34.16	K	L	T
EI 016B 07									1.000	25.40	3.700	.066	1.559	39.60	K	L	T
EI 010C 01	.109	2.77	.010	.25	.526	.239	.050	.023	0.375	9.53	0.821	.015	0.955	24.26	K	L	T
EI 010C 02									0.438	11.13	0.613	.011	1.214	30.84	K	L	T
EI 010C 03									0.500	12.70	0.491	.009	1.468	37.29	K	L	T
EI 010C 04									0.625	15.88	0.350	.006	1.982	50.34	K	L	T
EI 010C 05									0.750	19.05	0.272	.005	2.496	63.40	K	L	T
EI 010C 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.875	22.23	0.223	.004	3.010	76.45	K	L	T
EI 010C 07									1.000	25.40	0.188	.003	3.524	89.51	K	L	T
EI 011C 01	.109	2.77	.011	.28	.703	.319	.065	.029	0.375	9.53	1.341	.024	0.851	21.62	K	L	T
EI 011C 02									0.438	11.13	1.006	.018	1.072	27.23	K	L	T
EI 011C 03									0.500	12.70	0.807	.014	1.290	32.77	K	L	T
EI 011C 04									0.625	15.88	0.578	.010	1.729	43.92	K	L	T
EI 011C 05									0.750	19.05	0.450	.008	2.169	55.09	K	L	T
EI 011C 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.875	22.23	0.368	.007	2.608	66.24	K	L	T
EI 011C 07									1.000	25.40	0.312	.006	3.047	77.39	K	L	T
EI 012C 01	.109	2.77	.012	.30	.915	.415	.085	.039	0.375	9.53	2.103	.038	0.770	19.56	K	L	T
EI 012C 02									0.438	11.13	1.584	.028	0.962	24.43	K	L	T
EI 012C 03									0.500	12.70	1.274	.023	1.151	29.24	K	L	T
EI 012C 04									0.625	15.88	0.914	.016	1.533	38.94	K	L	T
EI 012C 05									0.750	19.05	0.713	.013	1.914	48.62	K	L	T
EI 012C 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.875	22.23	0.584	.010	2.296	58.32	K	L	T
EI 012C 07									1.000	25.40	0.495	.009	2.677	68.00	K	L	T

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: INSTRUMENT SERIES (INCH)

LOOPS AT RANDOM POSITION • ***Music Wire (Plated**), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)***

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
EI 013C 01	.109	2.77	.013	.33	1.166	.529	.105	.048	0.375	9.53	3.187	.057	0.708	17.98	K	L	T
EI 013C 02									0.438	11.13	2.409	.043	0.878	22.30	K	L	T
EI 013C 03									0.500	12.70	1.943	.035	1.046	26.57	K	L	T
EI 013C 04									0.625	15.88	1.397	.025	1.384	35.15	K	L	T
EI 013C 05									0.750	19.05	1.091	.019	1.722	43.74	K	L	T
EI 013C 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.875	22.23	0.895	.016	2.060	52.32	K	L	T
EI 013C 07									1.000	25.40	0.759	.014	2.398	60.91	K	L	T
EI 014C 01	.109	2.77	.014	.36	1.463	.664	.130	.059	0.375	9.53	4.690	.084	0.659	16.74	K	L	T
EI 014C 02									0.438	11.13	3.559	.064	0.813	20.65	K	L	T
EI 014C 03									0.500	12.70	2.877	.051	0.963	24.46	K	L	T
EI 014C 04									0.625	15.88	2.074	.037	1.268	32.21	K	L	T
EI 014C 05									0.750	19.05	1.622	.029	1.572	39.93	K	L	T
EI 014C 06			**SEE NOTE ON PAGE 5 UNDER FINISH						0.875	22.23	1.332	.024	1.876	47.65	K	L	T
EI 014C 07									1.000	25.40	1.130	.020	2.180	55.37	K	L	T

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated**) or Stainless Steel (Passivated)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
															Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.	MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
EIM020A 01	2.00	.079	.20	.008	1.69	.38	.13	.030	10.00	0.394	.099	0.564	25.86	1.018	K	L
EIM020A 02									12.50	0.492	.070	0.401	34.75	1.368	K	L
EIM020A 03									15.00	0.591	.055	0.312	43.64	1.718	K	L
EIM020A 04									17.50	0.689	.045	0.255	52.55	2.069	K	L
EIM020A 05			**SEE NOTE ON PAGE 5 UNDER FINISH						20.00	0.787	.038	0.215	61.44	2.419	K	L
EIM025A 01	2.00	.079	.25	.010	3.38	.76	.27	.060	10.00	0.394	.325	1.858	19.53	0.769	K	L
EIM025A 02									12.50	0.492	.232	1.327	25.83	1.017	K	L
EIM025A 03									15.00	0.591	.181	1.032	32.16	1.266	K	L
EIM025A 04									17.50	0.689	.148	0.844	38.48	1.515	K	L
EIM025A 05									20.00	0.787	.125	0.714	44.78	1.763	K	L
EIM025A 06									22.50	0.886	.108	0.619	51.10	2.012	K	L
EIM025A 07			**SEE NOTE ON PAGE 5 UNDER FINISH						25.00	0.984	.096	0.546	57.43	2.261	K	L
EIM025B 01	2.50	.098	.25	.010	2.45	.55	.18	.040	9.50	0.374	.168	0.960	22.96	0.904	K	L
EIM025B 02									11.00	0.433	.131	0.750	28.27	1.113	K	L
EIM025B 03									12.50	0.492	.107	0.610	33.83	1.332	K	L
EIM025B 04									15.50	0.610	.079	0.450	44.20	1.740	K	L
EIM025B 05									19.00	0.748	.060	0.340	57.10	2.248	K	L
EIM025B 06									22.00	0.866	.051	0.290	66.70	2.626	K	L
EIM025B 07			**SEE NOTE ON PAGE 5 UNDER FINISH						25.00	0.984	.042	0.240	79.10	3.114	K	L
EIM030B 01	2.50	.098	.30	.012	4.61	1.04	.40	.090	10.00	0.394	.490	2.798	18.59	0.732	K	L
EIM030B 02									12.50	0.492	.333	1.904	25.12	0.989	K	L
EIM030B 03									15.00	0.591	.253	1.443	31.65	1.246	K	L
EIM030B 04									17.50	0.689	.203	1.162	38.18	1.503	K	L
EIM030B 05									20.00	0.787	.170	0.973	44.70	1.760	K	L
EIM030B 06									22.50	0.886	.146	0.836	51.23	2.017	K	L
EIM030B 07			**SEE NOTE ON PAGE 5 UNDER FINISH						25.00	0.984	.128	0.733	57.76	2.274	K	L
EIM030C 01	3.00	.118	.30	.012	3.74	.84	.33	.075	10.00	0.394	.323	1.847	20.52	0.808	K	L
EIM030C 02									12.50	0.492	.205	1.169	29.13	1.147	K	L
EIM030C 03									15.00	0.591	.150	0.855	37.74	1.486	K	L
EIM030C 04									17.50	0.689	.118	0.674	46.33	1.824	K	L
EIM030C 05									20.00	0.787	.097	0.556	54.94	2.163	K	L
EIM030C 06									22.50	0.886	.083	0.474	63.55	2.502	K	L
EIM030C 07			**SEE NOTE ON PAGE 5 UNDER FINISH						25.00	0.984	.072	0.412	72.16	2.841	K	L
EIM030D 01	4.00	.157	.30	.012	2.71	.61	.25	.055	10.00	0.394	.186	1.060	23.39	0.921	K	L
EIM030D 02									12.50	0.492	.113	0.644	34.57	1.361	K	L
EIM030D 03									15.00	0.591	.074	0.424	48.49	1.909	K	L
EIM030D 04									17.50	0.689	.055	0.316	62.41	2.457	K	L
EIM030D 05									20.00	0.787	.044	0.252	76.33	3.005	K	L
EIM030D 06									22.50	0.886	.037	0.210	90.25	3.553	K	L
EIM030D 07									25.00	0.984	.031	0.179	104.17	4.101	K	L
EIM030D 08									27.50	1.083	.027	0.157	118.08	4.649	K	L
EIM030D 09			**SEE NOTE ON PAGE 5 UNDER FINISH						30.00	1.181	.024	0.139	132.00	5.197	K	L

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.
PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.
CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).
*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

Extension Springs: Standard Series

Selection to Match Your Needs

The Lee Spring Standard Extension Spring line includes a wide range of size and rate combinations. Selections are sorted in ascending order based on outside diameter. Standard Extension Springs are available in both inch and metric series.

Standard Series springs are available in Music Wire, Type 302 Stainless Steel and Type 316 Stainless Steel. Metric Series springs are available in Music Wire and Type 302 Stainless Steel. The Music Wire springs are provided with a plating finish for light corrosion resistance. The Type 302 Stainless Steel springs are passivated, while Type 316 Stainless Steel springs are passivated and ultrasonically cleaned.

Lee Spring's Stock Extension Springs are supplied with full diameter loops (either to machine or crossover center style) at a random position with the exception of Metric Extension Springs which are specified to meet DIN Standards. Loop openings are approximately one wire diameter and the direction of wind is factory optional. If exact direction of helix is required, Custom Extension Springs can be made to specification.

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

Extension Springs: Standard Series

Guide to using tables

Lee Stock Number:
Lee Spring Part Number, add suffix M for Music Wire, S for Stainless Steel or S316 for Type 316 Stainless Steel.

Maximum Load:
Design load to extend the spring to its maximum extended length for Music Wire.

Initial Tension:
Force that keeps the coils closed and which must be overcome before the coils start to move.

Spring Rate:
The change in load over unit of deflection.

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

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 014A 01									0.500	12.70	2.000	.0357	0.990	25.15	L	L	U
LE 014A 02									0.563	14.30	1.650	.0295	1.153	29.29	L	L	U
LE 014A 03									0.625	15.88	1.400	.0250	1.325	33.66	L	L	U
LE 014A 04									0.750	19.05	1.080	.0193	1.660	42.16	K	K	T
LE 014A 05									0.813	20.65	0.970	.0173	1.823	46.30	K	K	T
LE 014A 06	.125	3.18	.014	.36	1.10	.499	.12	.054	0.875	22.23	0.880	.0157	1.985	50.42	K	K	T
LE 014A 07									0.938	23.83	0.810	.014[illegible]	2.1[illegible]	5[illegible]	K	K	T

Outside Diameter:
Spring outer diameter, parts listed in ascending order.

Wire Diameter:
In ascending order of size, within each group of outside diameters.

Free Length:
Length of the spring in the unloaded position, measured from inside the loops.

Maximum Extended Length:
Suggested longest operating spring position to avoid loading overstress. For Type 316 Stainless Steel, reduce to approximately 75%–90% of these lengths.

Additional Information

- Maximum Load and Maximum Extended Length are calculated using nominal designs. These figures are provided for referencing only. To determine the load at any working length based on nominal free length, spring rate, and initial tension use the formula:
  P=(R x F) + I.T.
  where P is the load in lbs.; R is the spring rate in lbs. per inch; F is the deflection in inches (or final spring length minus the free length; I.T. is the initial tension in lbs.
- The free length of an extension spring is measured from inside the end loops. To obtain the overall length add two wire diameters to the given length.
- As with compression springs, in order to achieve long life and service, good design suggests that extension springs not exceed beyond 80% of their deflection capability.

How to Determine Price

1. Select the spring you want by LEE STOCK NUMBER.
2. 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.
3. 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.
4. Prices subject to change without notice.

FREE SHIPPING AVAILABLE
See Price List in back of catalog for details.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 014A 01	.125	3.18	.014	.36	1.10	.499	.12	.054	0.500	12.70	2.000	.0357	0.990	25.15	L	L	U
LE 014A 02									0.563	14.30	1.650	.0295	1.153	29.29	L	L	U
LE 014A 03									0.625	15.88	1.400	.0250	1.325	33.66	L	L	U
LE 014A 04									0.750	19.05	1.080	.0193	1.660	42.16	K	K	T
LE 014A 05									0.813	20.65	0.970	.0173	1.823	46.30	K	K	T
LE 014A 06									0.875	22.23	0.880	.0157	1.985	50.42	K	K	T
LE 014A 07									0.938	23.83	0.810	.0145	2.148	54.56	K	K	T
LE 014A 08									1.000	25.40	0.750	.0134	2.310	58.67	K	K	T
LE 014A 09									1.125	28.58	0.643	.0115	2.655	67.44	K	K	T
LE 014A 10									1.250	31.75	0.565	.0101	2.970	75.44	L	L	U
LE 014A 11									1.375	34.93	0.504	.0090	3.335	84.71	L	L	U
LE 014A 12									1.500	38.10	0.455	.0081	3.654	92.81	L	L	U
LE 016A 003	.125	3.18	.016	.41	1.60	.726	.20	.091	0.375	9.53	7.020	.1254	0.575	14.61	L	L	U
LE 016A 002									0.500	12.70	4.100	.0732	0.840	21.34	L	L	U
LE 016A 001									0.625	15.88	2.860	.0511	1.115	28.32	L	L	U
LE 016A 00									0.750	19.05	2.100	.0375	1.420	36.07	K	K	T
LE 016A 0									0.875	22.23	1.750	.0313	1.675	42.55	K	K	T
LE 016A 01									1.000	25.40	1.500	.0268	1.930	49.02	K	K	T
LE 016A 02									1.125	28.58	1.300	.0232	2.205	56.01	K	K	T
LE 016A 03									1.250	31.75	1.200	.0214	2.420	61.47	L	L	U
LE 016A 04									1.375	34.93	1.000	.0179	2.775	70.49	L	L	U
LE 016A 05									1.500	38.10	0.900	.0161	3.060	77.72	L	L	U
LE 016A 06									1.750	44.45	0.780	.0139	3.540	89.92	L	L	U
LE 016A 07									2.000	50.80	0.675	.0121	4.060	103.12	L	L	U
LE 018A 003	.125	3.18	.018	.46	2.20	.998	.30	.136	0.375	9.53	12.930	.2309	0.522	13.26	M	M	W
LE 018A 002									0.500	12.70	7.580	.1354	0.750	19.05	M	M	W
LE 018A 001									0.625	15.88	5.350	.0955	0.985	25.02	M	M	W
LE 018A 00									0.750	19.05	4.000	.0714	1.230	31.24	L	L	U
LE 018A 0									0.875	22.23	3.300	.0589	1.455	36.96	L	L	U
LE 018A 01									1.000	25.40	2.900	.0518	1.660	42.16	L	L	U
LE 018A 02									1.125	28.58	2.500	.0446	1.885	47.88	L	L	U
LE 018A 03									1.250	31.75	2.200	.0393	2.110	53.59	L	L	U
LE 018A 04									1.375	34.93	2.000	.0357	2.325	59.06	L	L	U
LE 018A 05									1.500	38.10	1.800	.0321	2.560	65.02	M	M	W
LE 018A 06									1.750	44.45	1.500	.0268	3.020	76.71	M	M	W
LE 018A 07									2.000	50.80	1.300	.0232	3.460	87.88	M	M	W
LE 018A 08									2.250	57.15	1.130	.0202	3.930	99.82	M	M	W

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 020A 002	.125	3.18	.020	.51	2.90	1.315	.40	.181	0.500	12.70	13.380	.2389	0.690	17.53	L	L	U
LE 020A 001									0.625	15.88	9.420	.1682	0.895	22.73	L	L	U
LE 020A 00									0.750	19.05	7.500	.1339	1.080	27.43	K	K	T
LE 020A 0									0.875	22.23	6.000	.1071	1.295	32.89	K	K	T
LE 020A 01									1.000	25.40	5.100	.0911	1.490	37.85	K	K	T
LE 020A 02									1.125	28.58	4.400	.0786	1.695	43.05	K	K	T
LE 020A 03									1.250	31.75	3.900	.0696	1.890	48.01	K	K	T
LE 020A 04									1.375	34.93	3.500	.0625	2.085	52.96	K	K	T
LE 020A 05									1.500	38.10	3.200	.0571	2.280	57.91	K	K	T
LE 020A 06									1.750	44.45	2.700	.0482	2.680	68.07	L	L	U
LE 020A 07									2.000	50.80	2.300	.0411	3.090	78.49	L	L	U
LE 020A 08									2.250	57.15	2.000	.0357	3.500	88.90	L	L	U
LE 022A 01	.125	3.18	.022	.56	3.90	1.769	.45	.204	0.625	15.88	16.100	.2875	0.835	21.21	L	L	U
LE 022A 02									0.750	19.05	12.400	.2214	1.030	26.16	K	K	T
LE 022A 03									0.875	22.23	10.200	.1822	1.215	30.86	K	K	T
LE 022A 04									1.000	25.40	8.700	.1554	1.400	35.56	K	K	T
LE 022A 05									1.125	28.58	7.500	.1339	1.585	40.26	K	K	T
LE 022A 06									1.250	31.75	6.600	.1179	1.770	44.96	L	L	U
LE 022A 07									1.375	34.93	6.000	.1071	1.945	49.40	L	L	U
LE 022A 08									1.500	38.10	5.400	.0964	2.140	54.36	L	L	U
LE 022A 09									1.750	44.45	4.500	.0804	2.520	64.01	L	L	U
LE 022A 10									2.000	50.80	3.900	.0696	2.880	73.15	L	L	U
LE 022A 11									2.250	57.15	3.420	.0611	3.260	82.80	L	L	U
LE 022A 12									2.500	63.50	3.050	.0545	3.630	92.20	L	L	U
LE 014B 01	.188	4.78	.014	.36	.80	.363	.04	.018	0.625	15.88	0.530	.0095	2.055	52.20	K	K	W
LE 014B 1A									0.750	19.05	0.368	.0066	2.815	71.50	K	K	W
LE 014B 02									0.875	22.23	0.280	.0050	3.585	91.06	J	J	U
LE 014B 03									1.000	25.40	0.230	.0041	4.300	109.22	J	J	U
LE 014B 04									1.125	28.58	0.190	.0034	5.125	130.18	J	J	U
LE 014B 05									1.250	31.75	0.170	.0030	5.720	145.29	J	J	U
LE 014B 06									1.375	34.93	0.150	.0027	6.445	163.70	J	J	U
LE 014B 07									1.500	38.10	0.130	.0023	7.350	186.69	J	J	U
LE 014B 08									1.625	41.28	0.120	.0021	7.955	202.06	K	K	W
LE 014B 09									1.750	44.45	0.110	.0020	8.660	219.96	K	K	W
LE 014B 10									1.875	47.63	0.100	.0018	9.475	240.67	K	K	W
LE 014B 11									2.000	50.80	0.090	.0016	10.440	265.18	K	K	W
LE 014B 12									2.250	57.15	0.080	.0014	11.750	298.45	L	L	X
LE 014B 13									2.500	63.50	0.070	.0013	13.360	339.34	L	L	X

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 016B 01									0.625	15.88	1.040	.0186	1.705	43.31	K	K	W
LE 016B 1A									0.750	19.05	0.732	.0131	2.280	57.91	K	K	W
LE 016B 02									0.875	22.23	0.570	.0102	2.840	72.14	J	J	U
LE 016B 03									1.000	25.40	0.460	.0082	3.430	87.12	J	J	U
LE 016B 04									1.125	28.58	0.390	.0070	3.995	101.47	J	J	U
LE 016B 05									1.250	31.75	0.340	.0061	4.540	115.32	J	J	U
LE 016B 06									1.375	34.93	0.300	.0054	5.105	129.67	J	J	U
LE 016B 07	.188	4.78	.016	.41	1.20	.544	.08	.036	1.500	38.10	0.260	.0046	5.810	147.57	J	J	U
LE 016B 08									1.625	41.28	0.240	.0043	6.295	159.89	K	K	W
LE 016B 09									1.750	44.45	0.220	.0039	6.840	173.74	K	K	W
LE 016B 10									1.875	47.63	0.200	.0036	7.475	189.87	K	K	W
LE 016B 11									2.000	50.80	0.180	.0032	8.220	208.79	K	K	W
LE 016B 12									2.250	57.15	0.160	.0029	9.250	234.95	L	L	X
LE 016B 13									2.500	63.50	0.140	.0025	10.500	266.70	L	L	X
LE 018B 01									0.625	15.88	1.900	.0339	1.345	34.16	K	K	W
LE 018B 1A									0.750	19.05	1.348	.0241	1.759	44.68	K	K	W
LE 018B 02									0.875	22.23	1.050	.0188	2.175	55.25	J	J	U
LE 018B 03									1.000	25.40	0.860	.0154	2.580	65.53	J	J	U
LE 018B 04									1.125	28.58	0.730	.0130	2.985	75.82	J	J	U
LE 018B 05									1.250	31.75	0.630	.0113	3.410	86.61	J	J	U
LE 018B 06	.188	4.78	.018	.46	1.50	.680	.14	.064	1.375	34.93	0.550	.0098	3.845	97.66	J	J	U
LE 018B 07									1.500	38.10	0.500	.0089	4.220	107.19	J	J	U
LE 018B 08									1.625	41.28	0.450	.0080	4.645	117.98	K	K	W
LE 018B 09									1.750	44.45	0.410	.0073	5.070	128.78	K	K	W
LE 018B 10									1.875	47.63	0.380	.0068	5.455	138.56	K	K	W
LE 018B 11									2.000	50.80	0.350	.0063	5.890	149.61	K	K	W
LE 018B 12									2.250	57.15	0.300	.0054	6.780	172.21	L	L	X
LE 018B 13									2.500	63.50	0.270	.0048	7.540	191.52	L	L	X
LE 020B 01									0.625	15.88	3.300	.0589	1.165	29.59	K	K	W
LE 020B 1A									0.750	19.05	2.333	.0417	1.513	38.43	K	K	W
LE 020B 02									0.875	22.23	1.800	.0321	1.865	47.37	J	J	U
LE 020B 03									1.000	25.40	1.500	.0268	2.190	55.63	J	J	U
LE 020B 04									1.125	28.58	1.300	.0232	2.495	63.37	J	J	U
LE 020B 05									1.250	31.75	1.100	.0196	2.870	72.90	J	J	U
LE 020B 06	.188	4.78	.020	.51	2.00	.907	.22	.100	1.375	34.93	0.970	.0173	3.215	81.66	J	J	U
LE 020B 07									1.500	38.10	0.870	.0155	3.550	90.17	J	J	U
LE 020B 08									1.625	41.28	0.790	.0141	3.875	98.43	K	K	W
LE 020B 09									1.750	44.45	0.720	.0129	4.220	107.19	K	K	W
LE 020B 10									1.875	47.63	0.660	.0118	4.575	116.21	K	K	W
LE 020B 11									2.000	50.80	0.610	.0109	4.920	124.97	K	K	W
LE 020B 12									2.250	57.15	0.530	.0095	5.610	142.49	L	L	X
LE 020B 13									2.500	63.50	0.470	.0084	6.290	159.77	L	L	X

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 022B 002	.188	4.78	.022	.56	2.50	1.134	.30	.136	0.500	12.70	8.700	.1554	0.750	19.05	K	K	Y
LE 022B 001									0.625	15.88	5.400	.0964	1.035	26.29	K	K	Y
LE 022B 00									0.750	19.05	3.800	.0679	1.330	33.78	J	J	X
LE 022B 0									0.875	22.23	3.200	.0571	1.565	39.75	J	J	X
LE 022B 01									1.000	25.40	2.500	.0446	1.880	47.75	J	J	X
LE 022B 02									1.125	28.58	2.100	.0375	2.175	55.25	J	J	X
LE 022B 03									1.250	31.75	1.800	.0321	2.470	62.74	J	J	X
LE 022B 04									1.375	34.93	1.600	.0286	2.755	69.98	J	J	X
LE 022B 05									1.500	38.10	1.400	.0250	3.070	77.98	J	J	X
LE 022B 06									1.750	44.45	1.200	.0214	3.580	90.93	K	K	Y
LE 022B 07									2.000	50.80	1.000	.0179	4.200	106.68	K	K	Y
LE 022B 08									2.250	57.15	0.890	.0159	4.720	119.89	K	K	Y
LE 022B 09									2.500	63.50	0.780	.0139	5.320	135.13	K	K	Y
LE 024B 01	.188	4.78	.024	.61	3.40	1.542	.40	.181	0.625	15.88	8.500	.1518	0.975	24.77	K	K	Y
LE 024B 02									0.688	17.48	7.200	.1286	1.108	28.14	J	J	X
LE 024B 03									0.750	19.05	6.000	.1071	1.250	31.75	J	J	X
LE 024B 04									0.813	20.65	5.300	.0946	1.383	35.13	J	J	X
LE 024B 05									0.875	22.23	4.800	.0857	1.505	38.23	J	J	X
LE 024B 06									0.938	23.83	4.300	.0768	1.638	41.61	J	J	X
LE 024B 07									1.000	25.40	4.000	.0714	1.750	44.45	J	J	X
LE 024B 08									1.125	28.58	3.360	.0600	2.015	51.18	J	J	X
LE 024B 09									1.250	31.75	2.910	.0520	2.280	57.91	J	J	X
LE 024B 10									1.375	34.93	2.570	.0459	2.545	64.64	J	J	X
LE 024B 11									1.500	38.10	2.300	.0411	2.800	71.12	J	J	X
LE 024B 12									1.750	44.45	1.900	.0339	3.330	84.58	J	J	Y
LE 024B 13									2.000	50.80	1.620	.0289	3.850	97.79	J	J	Y
LE 024B 14									2.250	57.15	1.420	.0254	4.360	110.74	J	J	Y
LE 024B 15									2.500	63.50	1.260	.0225	4.880	123.95	J	J	Y
LE 026B 002	.188	4.78	.026	.66	4.30	1.950	.50	.227	0.500	12.70	20.500	.3661	0.690	17.53	K	K	Y
LE 026B 001									0.625	15.88	12.630	.2255	0.925	23.50	K	K	Y
LE 026B 00									0.750	19.05	9.500	.1697	1.150	29.21	J	J	X
LE 026B 0									0.875	22.23	7.400	.1321	1.385	35.18	J	J	X
LE 026B 01									1.000	25.40	6.100	.1089	1.620	41.15	J	J	X
LE 026B 02									1.125	28.58	5.100	.0911	1.875	47.63	J	J	X
LE 026B 03									1.250	31.75	4.500	.0804	2.090	53.09	J	J	X
LE 026B 04									1.375	34.93	4.000	.0714	2.325	59.06	J	J	X
LE 026B 05									1.500	38.10	3.500	.0625	2.590	65.79	J	J	X
LE 026B 06									1.750	44.45	2.900	.0518	3.060	77.72	J	J	Y
LE 026B 07									2.000	50.80	2.500	.0446	3.520	89.41	J	J	Y
LE 026B 08									2.250	57.15	2.200	.0393	3.980	101.09	J	J	Y
LE 026B 09									2.500	63.50	1.930	.0345	4.470	113.54	J	J	Y

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 029B 01									0.625	15.88	22.400	.4000	0.855	21.72	K	K	Y
LE 029B 02									0.688	17.48	19.200	.3429	0.948	24.08	J	J	X
LE 029B 03									0.750	19.05	16.800	.3000	1.050	26.67	J	J	X
LE 029B 04									0.813	20.65	14.900	.2661	1.153	29.29	J	J	X
LE 029B 05									0.875	22.23	13.100	.2339	1.265	32.13	J	J	X
LE 029B 06									0.938	23.83	12.000	.2143	1.358	34.49	J	J	X
LE 029B 07									1.000	25.40	11.000	.1964	1.460	37.08	J	J	X
LE 029B 08	.188	4.78	.029	.74	5.80	2.631	.75	.340	1.125	28.58	9.280	.1657	1.665	42.29	K	K	Y
LE 029B 09									1.250	31.75	8.090	.1445	1.870	47.50	K	K	Y
LE 029B 10									1.375	34.93	7.170	.1280	2.075	52.71	K	K	Y
LE 029B 11									1.500	38.10	6.440	.1150	2.280	57.91	K	K	Y
LE 029B 12									1.750	44.45	5.330	.0952	2.700	68.58	K	K	Y
LE 029B 13									2.000	50.80	4.560	.0814	3.110	78.99	K	K	Y
LE 029B 14									2.250	57.15	4.010	.0716	3.510	89.15	K	K	Y
LE 029B 15									2.500	63.50	3.540	.0632	3.930	99.82	K	K	Y
LE 031B 002									0.500	12.70	52.000	.9286	0.620	15.75	K	K	Y
LE 031B 001									0.625	15.88	31.720	.5665	0.815	20.70	K	K	Y
LE 031B 00									0.750	19.05	24.100	.4304	1.010	25.65	J	J	X
LE 031B 0									0.875	22.23	19.000	.3393	1.195	30.35	J	J	X
LE 031B 01									1.000	25.40	15.800	.2822	1.390	35.31	J	J	X
LE 031B 02									1.125	28.58	13.500	.2411	1.585	40.26	J	J	Y
LE 031B 03									1.250	31.75	11.700	.2089	1.780	45.21	J	J	Y
LE 031B 04	.188	4.78	.031	.79	7.00	3.175	.85	.386	1.375	34.93	10.400	.1857	1.965	49.91	J	J	Y
LE 031B 05									1.500	38.10	9.200	.1643	2.170	55.12	J	J	Y
LE 031B 06									1.750	44.45	7.700	.1375	2.550	64.77	J	J	Y
LE 031B 07									2.000	50.80	6.600	.1179	2.930	74.42	J	J	Y
LE 031B 08									2.250	57.15	5.700	.1018	3.330	84.58	K	K	Y
LE 031B 09									2.500	63.50	5.100	.0911	3.710	94.23	K	K	Y
LE 031B 10									2.750	69.85	4.500	.0804	4.120	104.65	K	K	Y
LE 034B 01									0.625	15.88	53.300	.9518	0.775	19.69	K	K	Y
LE 034B 02									0.750	19.05	40.000	.7143	0.950	24.13	J	J	X
LE 034B 03									0.875	22.23	31.000	.5536	1.135	28.83	J	J	X
LE 034B 04									1.000	25.40	26.000	.4643	1.310	33.27	J	J	X
LE 034B 05									1.125	28.58	22.400	.4000	1.485	37.72	J	J	Y
LE 034B 06									1.250	31.75	19.300	.3447	1.670	42.42	J	J	Y
LE 034B 07	.188	4.78	.034	.86	9.00	4.082	.90	.408	1.375	34.93	17.200	.3072	1.845	46.86	J	J	Y
LE 034B 08									1.500	38.10	15.500	.2768	2.020	51.31	K	K	Y
LE 034B 09									1.750	44.45	12.900	.2304	2.380	60.45	K	K	Y
LE 034B 10									2.000	50.80	11.000	.1964	2.740	69.60	K	K	Y
LE 034B 11									2.250	57.15	9.600	.1714	3.090	78.49	K	K	Y
LE 034B 12									2.500	63.50	8.500	.1518	3.450	87.63	K	K	Y
LE 034B 13									2.750	69.85	7.600	.1357	3.820	97.03	K	K	Y

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • ***Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)***

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 018C 01	.250	6.35	.018	.46	1.10	.499	.10	.045	0.625	15.88	1.270	.0227	1.415	35.94	K	K	AA
LE 018C 02									0.750	19.05	0.740	.0132	2.100	53.34	K	K	AA
LE 018C 03									0.875	22.23	0.530	.0095	2.765	70.23	J	J	Z
LE 018C 04									1.000	25.40	0.410	.0073	3.440	87.38	J	J	Z
LE 018C 05									1.125	28.58	0.340	.0061	4.075	103.51	J	J	Z
LE 018C 06									1.250	31.75	0.280	.0050	4.830	122.68	K	K	AA
LE 018C 07									1.375	34.93	0.250	.0045	5.385	136.78	K	K	AA
LE 018C 08									1.500	38.10	0.210	.0038	6.270	159.26	K	K	AA
LE 018C 09									1.750	44.45	0.170	.0030	7.640	194.06	K	K	AA
LE 018C 10									2.000	50.80	0.140	.0025	9.160	232.66	K	K	AA
LE 018C 11									2.250	57.15	0.130	.0023	9.960	252.98	K	K	AA
LE 018C 12									2.500	63.50	0.110	.0020	11.610	294.89	K	K	AA
LE 018C 13									2.750	69.85	0.100	.0018	12.770	324.36	K	K	AA
LE 022C 01	.250	6.35	.022	.56	2.10	.953	.20	.091	0.625	15.88	3.300	.0589	1.205	30.61	K	K	AA
LE 022C 02									0.750	19.05	2.000	.0357	1.700	43.18	K	K	AA
LE 022C 03									0.875	22.23	1.500	.0268	2.145	54.48	J	J	Z
LE 022C 04									1.000	25.40	1.140	.0204	2.670	67.82	J	J	Z
LE 022C 05									1.125	28.58	0.940	.0168	3.145	79.88	J	J	Z
LE 022C 06									1.250	31.75	0.800	.0143	3.630	92.20	K	K	AA
LE 022C 07									1.375	34.93	0.700	.0125	4.085	103.76	K	K	AA
LE 022C 08									1.500	38.10	0.600	.0107	4.670	118.62	K	K	AA
LE 022C 09									1.750	44.45	0.500	.0089	5.550	140.97	K	K	AA
LE 022C 10									2.000	50.80	0.400	.0071	6.750	171.45	K	K	AA
LE 022C 11									2.250	57.15	0.360	.0064	7.530	191.26	K	K	AA
LE 022C 12									2.500	63.50	0.320	.0057	8.440	214.38	K	K	AA
LE 022C 13									2.750	69.85	0.280	.0050	9.540	242.32	K	K	AA
LE 026C 002	.250	6.35	.026	.66	3.10	1.406	.40	.181	0.500	12.70	20.300	.3625	0.630	16.00	K	K	AA
LE 026C 001									0.625	15.88	7.600	.1357	0.985	25.02	K	K	AA
LE 026C 00									0.750	19.05	4.800	.0857	1.310	33.27	J	J	AA
LE 026C 0									0.875	22.23	3.500	.0625	1.645	41.78	J	J	Z
LE 026C 01									1.000	25.40	2.800	.0500	1.960	49.78	J	J	Z
LE 026C 02									1.125	28.58	2.300	.0411	2.295	58.29	J	J	Z
LE 026C 03									1.250	31.75	1.900	.0339	2.670	67.82	J	J	AA
LE 026C 04									1.375	34.93	1.700	.0304	2.965	75.31	J	J	AA
LE 026C 05									1.500	38.10	1.500	.0268	3.300	83.82	J	J	AA
LE 026C 06									1.750	44.45	1.200	.0214	4.000	101.60	K	K	AA
LE 026C 07									2.000	50.80	1.000	.0179	4.700	119.38	K	K	AA
LE 026C 08									2.250	57.15	0.860	.0154	5.390	136.91	K	K	AA
LE 026C 09									2.500	63.50	0.760	.0136	6.050	153.67	K	K	AA
LE 026C 10									2.750	69.85	0.680	.0121	6.720	170.69	K	K	AA
LE 026C 11									3.000	76.20	0.600	.0107	7.500	190.50	K	K	AB
LE 026C 12									3.500	88.90	0.515	.0092	8.743	222.07	L	L	AC
LE 026C 13									4.000	101.60	0.443	.0079	10.095	256.41	L	L	AC
LE 026C 14									4.500	114.30	0.389	.0069	11.441	290.60	L	L	AC
LE 026C 15									5.000	127.00	0.346	.0062	12.803	325.20	M	M	AD

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 029C 001									0.625	15.88	13.100	.2339	0.915	23.24	K	K	AA
LE 029C 00									0.750	19.05	7.900	.1411	1.220	30.99	K	K	AA
LE 029C 0									0.875	22.23	6.000	.1071	1.505	38.23	J	J	Z
LE 029C 01									1.000	25.40	4.700	.0839	1.800	45.72	J	J	Z
LE 029C 02									1.125	28.58	3.900	.0696	2.085	52.96	J	J	Z
LE 029C 03									1.250	31.75	3.400	.0607	2.350	59.69	J	J	AA
LE 029C 04									1.375	34.93	2.900	.0518	2.665	67.69	J	J	AA
LE 029C 05									1.500	38.10	2.550	.0455	2.970	75.44	J	J	AA
LE 029C 06	.250	6.35	.029	.74	4.30	1.950	.55	.249	1.750	44.45	2.100	.0375	3.540	89.92	K	K	AA
LE 029C 07									2.000	50.80	1.800	.0321	4.080	103.63	K	K	AA
LE 029C 08									2.250	57.15	1.600	.0286	4.590	116.59	K	K	AA
LE 029C 09									2.500	63.50	1.370	.0245	5.240	133.10	K	K	AA
LE 029C 10									2.750	69.85	1.220	.0218	5.820	147.83	K	K	AA
LE 029C 11									3.000	76.20	1.100	.0196	6.410	162.81	K	K	AB
LE 029C 12									3.500	88.90	0.923	.0165	7.562	192.07	L	L	AC
LE 029C 13									4.000	101.60	0.795	.0142	8.716	221.39	L	L	AC
LE 029C 14									4.500	114.30	0.697	.0124	9.880	250.95	L	L	AC
LE 029C 15									5.000	127.00	0.621	.0111	11.038	280.37	M	M	AD
LE 031C 001									0.625	15.88	18.840	.3364	0.865	21.97	K	K	AA
LE 031C 00									0.750	19.05	12.000	.2143	1.130	28.70	K	K	AA
LE 031C 0									0.875	22.23	8.800	.1572	1.385	35.18	J	J	Z
LE 031C 01									1.000	25.40	6.900	.1232	1.650	41.91	J	J	Z
LE 031C 02									1.125	28.58	5.700	.1018	1.915	48.64	J	J	Z
LE 031C 03									1.250	31.75	4.900	.0875	2.170	55.12	J	J	AA
LE 031C 04									1.375	34.93	4.300	.0768	2.425	61.60	J	J	AA
LE 031C 05									1.500	38.10	3.800	.0679	2.680	68.07	J	J	AA
LE 031C 06	.250	6.35	.031	.79	5.20	2.359	.70	.318	1.750	44.45	3.000	.0536	3.250	82.55	J	J	AA
LE 031C 07									2.000	50.80	2.600	.0464	3.730	94.74	K	K	AA
LE 031C 08									2.250	57.15	2.200	.0393	4.300	109.22	K	K	AA
LE 031C 09									2.500	63.50	2.000	.0357	4.750	120.65	K	K	AA
LE 031C 10									2.750	69.85	1.750	.0313	5.320	135.13	K	K	AA
LE 031C 11									3.000	76.20	1.570	.0280	5.870	149.10	K	K	AB
LE 031C 12									3.500	88.90	1.320	.0236	6.909	175.49	L	L	AC
LE 031C 13									4.000	101.60	1.140	.0204	7.947	201.85	L	L	AC
LE 031C 14									4.500	114.30	1.000	.0179	9.000	228.60	M	M	AD
LE 031C 15									5.000	127.00	0.890	.0159	10.056	255.42	M	M	AD

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • ***Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)***

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 034C 001	.250	6.35	.034	.86	6.80	3.084	.85	.386	0.625	15.88	28.400	.5072	0.835	21.21	K	K	AA
LE 034C 00									0.750	19.05	17.800	.3179	1.080	27.43	K	K	AA
LE 034C 0									0.875	22.23	13.500	.2411	1.315	33.40	J	J	Z
LE 034C 01									1.000	25.40	10.800	.1929	1.550	39.37	J	J	Z
LE 034C 02									1.125	28.58	9.100	.1625	1.775	45.09	J	J	Z
LE 034C 03									1.250	31.75	7.900	.1411	2.000	50.80	J	J	AA
LE 034C 04									1.375	34.93	6.700	.1196	2.265	57.53	J	J	AA
LE 034C 05									1.500	38.10	6.100	.1089	2.480	62.99	K	K	AA
LE 034C 06									1.750	44.45	4.900	.0875	2.960	75.18	K	K	AA
LE 034C 07									2.000	50.80	4.200	.0750	3.420	86.87	K	K	AA
LE 034C 08									2.250	57.15	3.600	.0643	3.900	99.06	K	K	AA
LE 034C 09									2.500	63.50	3.200	.0571	4.360	110.74	L	L	AC
LE 034C 10									2.750	69.85	2.850	.0509	4.840	122.94	L	L	AC
LE 034C 11									3.000	76.20	2.600	.0464	5.290	134.37	L	L	AC
LE 034C 12									3.500	88.90	2.180	.0389	6.229	158.22	L	L	AC
LE 034C 13									4.000	101.60	1.880	.0336	7.165	181.99	M	M	AD
LE 034C 14									4.500	114.30	1.650	.0295	8.106	205.89	M	M	AD
LE 034C 15									5.000	127.00	1.470	.0263	9.048	229.82	M	M	AD
LE 037C 00	.250	6.35	.037	.94	8.50	3.856	1.00	.454	0.625	15.88	44.700	.7983	0.795	20.19	K	K	AB
LE 037C 0									0.750	19.05	29.100	.5197	1.010	25.65	J	J	AA
LE 037C 01									1.000	25.40	17.700	.3161	1.420	36.07	J	J	AA
LE 037C 02									1.125	28.58	15.000	.2679	1.625	41.28	J	J	AA
LE 037C 03									1.250	31.75	12.700	.2268	1.840	46.74	J	J	AA
LE 037C 04									1.375	34.93	11.000	.1964	2.055	52.20	J	J	AA
LE 037C 05									1.500	38.10	9.700	.1732	2.270	57.66	J	J	AA
LE 037C 06									1.750	44.45	8.000	.1429	2.690	68.33	K	K	AB
LE 037C 07									2.000	50.80	6.700	.1196	3.120	79.25	K	K	AB
LE 037C 08									2.250	57.15	5.800	.1036	3.540	89.92	K	K	AB
LE 037C 09									2.500	63.50	5.100	.0911	3.970	100.84	L	L	AC
LE 037C 10									2.750	69.85	4.600	.0821	4.380	111.25	L	L	AC
LE 037C 11									3.000	76.20	4.100	.0732	4.830	122.68	L	L	AC
LE 037C 12									3.250	82.55	3.750	.0670	5.250	133.35	L	L	AC
LE 037C 13									3.500	88.90	3.420	.0611	5.690	144.53	L	L	AC
LE 037C 14									4.000	101.60	2.980	.0532	6.517	165.53	M	M	AD
LE 037C 15									4.500	114.30	2.620	.0468	7.363	187.02	M	M	AD
LE 037C 16									5.000	127.00	2.330	.0416	8.219	208.76	M	M	AD

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 041C 01									0.750	19.05	51.600	.9215	0.960	24.38	K	K	AB
LE 041C 02									1.000	25.40	30.000	.5357	1.360	34.54	K	K	AB
LE 041C 03									1.125	28.58	25.000	.4465	1.555	39.50	K	K	AB
LE 041C 04									1.250	31.75	21.500	.3839	1.750	44.45	K	K	AB
LE 041C 05									1.375	34.93	19.000	.3393	1.935	49.15	K	K	AB
LE 041C 06									1.500	38.10	16.800	.3000	2.130	54.10	K	K	AB
LE 041C 07									1.750	44.45	13.800	.2464	2.520	64.01	L	L	AC
LE 041C 08	.250	6.35	.041	1.04	11.70	5.307	1.05	.476	2.000	50.80	11.700	.2089	2.910	73.91	L	L	AC
LE 041C 09									2.250	57.15	10.100	.1804	3.300	83.82	L	L	AC
LE 041C 10									2.500	63.50	8.900	.1589	3.700	93.98	L	L	AC
LE 041C 11									2.750	69.85	8.000	.1429	4.080	103.63	L	L	AC
LE 041C 12									3.000	76.20	7.250	.1295	4.470	113.54	L	L	AC
LE 041C 13									3.500	88.90	6.100	.1089	5.250	133.35	L	L	AC
LE 041C 14									4.000	101.60	5.250	.0938	6.029	153.14	M	M	AD
LE 041C 15									4.500	114.30	4.620	.0825	6.805	172.85	M	M	AD
LE 041C 16									5.000	127.00	4.120	.0736	7.585	192.66	M	M	AD
LE 030CD 01									1.000	25.40	3.500	.0625	2.030	51.56	G	G	AB
LE 030CD 02									1.125	28.58	2.700	.0482	2.455	62.36	G	G	AB
LE 030CD 03									1.250	31.75	2.300	.0411	2.820	71.63	G	G	AB
LE 030CD 04									1.375	34.93	1.900	.0339	3.265	82.93	G	G	AB
LE 030CD 05	.313	7.95	.030	.76	4.00	1.814	.40	.181	1.500	38.10	1.700	.0304	3.620	91.95	G	G	AB
LE 030CD 06									1.750	44.45	1.300	.0232	4.520	114.81	J	J	AC
LE 030CD 07									2.000	50.80	1.100	.0196	5.270	133.86	K	K	AC
LE 030CD 08									2.250	57.15	0.940	.0168	6.080	154.43	K	K	AC
LE 030CD 09									2.500	63.50	0.830	.0148	6.840	173.74	K	K	AC
LE 030CD 10									2.750	69.85	0.727	.0130	7.702	195.63	L	M	AD
LE 030CD 11									3.000	76.20	0.653	.0117	8.513	216.23	L	M	AD
LE 037CD 0									0.750	19.05	18.390	.3284	1.086	27.58	J	J	AC
LE 037CD 01									1.000	25.40	9.000	.1607	1.690	42.93	G	G	AB
LE 037CD 02									1.125	28.58	7.000	.1250	2.005	50.93	G	G	AB
LE 037CD 03									1.250	31.75	6.000	.1071	2.280	57.91	G	G	AB
LE 037CD 04									1.375	34.93	5.200	.0929	2.565	65.15	G	G	AB
LE 037CD 05	.313	7.95	.037	.94	7.00	3.175	.83	.376	1.500	38.10	4.600	.0821	2.840	72.14	G	G	AB
LE 037CD 06									1.750	44.45	3.600	.0643	3.460	87.88	J	J	AC
LE 037CD 07									2.000	50.80	3.100	.0554	3.990	101.35	K	L	AD
LE 037CD 08									2.250	57.15	2.600	.0464	4.620	117.35	K	L	AD
LE 037CD 09									2.500	63.50	2.400	.0429	5.070	128.78	K	L	AD
LE 037CD 10									2.750	69.85	2.100	.0375	5.690	144.53	L	M	AD
LE 037CD 11									3.000	76.20	1.900	.0339	6.250	158.75	L	M	AD

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 043CD 01									1.000	25.40	22.430	.4006	1.400	35.56	J	J	AC
LE 043CD 02									1.125	28.58	17.980	.3211	1.625	41.28	J	J	AC
LE 043CD 03									1.250	31.75	15.000	.2679	1.850	46.99	J	J	AC
LE 043CD 04									1.375	34.93	12.870	.2298	2.075	52.71	J	J	AC
LE 043CD 05									1.500	38.10	11.270	.2013	2.300	58.42	J	J	AC
LE 043CD 06	.313	7.95	.043	1.09	10.30	4.672	1.30	.590	1.750	44.45	9.030	.1613	2.750	69.85	K	K	AC
LE 043CD 07									2.000	50.80	7.530	.1345	3.200	81.28	K	K	AC
LE 043CD 08									2.250	57.15	6.460	.1154	3.640	92.46	L	L	AD
LE 043CD 09									2.500	63.50	5.650	.1009	4.090	103.89	N	P	AG
LE 043CD 10									2.750	69.85	5.020	.0896	4.540	115.32	N	P	AG
LE 043CD 11									3.000	76.20	4.520	.0807	4.990	126.75	N	P	AG
LE 049CD 01									1.000	25.40	36.000	.6429	1.370	34.80	J	J	AC
LE 049CD 02									1.125	28.58	30.000	.5357	1.565	39.75	J	J	AC
LE 049CD 03									1.250	31.75	26.000	.4643	1.760	44.70	J	J	AC
LE 049CD 04									1.375	34.93	23.000	.4107	1.945	49.40	J	J	AC
LE 049CD 05									1.500	38.10	21.000	.3750	2.130	54.10	J	J	AC
LE 049CD 06	.313	7.95	.049	1.24	15.00	6.804	1.80	.816	1.750	44.45	16.500	.2947	2.550	64.77	K	K	AC
LE 049CD 07									2.000	50.80	14.000	.2500	2.940	74.68	K	L	AD
LE 049CD 08									2.250	57.15	12.000	.2143	3.350	85.09	L	M	AD
LE 049CD 09									2.500	63.50	11.000	.1964	3.700	93.98	N	P	AG
LE 049CD 10									2.750	69.85	10.000	.1786	4.070	103.38	N	P	AG
LE 049CD 11									3.000	76.20	9.000	.1607	4.470	113.54	N	P	AG
LE 055CD 01									1.000	25.40	82.210	1.4681	1.220	30.99	K	K	AC
LE 055CD 02									1.125	28.58	66.780	1.1926	1.395	35.43	K	K	AC
LE 055CD 03									1.250	31.75	56.220	1.0040	1.570	39.88	K	K	AC
LE 055CD 04									1.375	34.93	48.550	.8670	1.745	44.32	K	K	AC
LE 055CD 05									1.500	38.10	42.720	.7629	1.920	48.77	K	K	AC
LE 055CD 06	.313	7.95	.055	1.40	21.00	9.526	3.00	1.361	1.750	44.45	34.450	.6152	2.270	57.66	L	L	AD
LE 055CD 07									2.000	50.80	28.850	.5152	2.620	66.55	L	M	AD
LE 055CD 08									2.250	57.15	24.830	.4434	2.970	75.44	M	N	AE
LE 055CD 09									2.500	63.50	21.790	.3891	3.330	84.58	P	R	AJ
LE 055CD 10									2.750	69.85	19.410	.3466	3.680	93.47	P	R	AJ
LE 055CD 11									3.000	76.20	17.500	.3125	4.030	102.36	P	R	AJ
LE 026D 01									1.000	25.40	1.300	.0232	2.600	66.04	G	G	AD
LE 026D 02									1.125	28.58	0.920	.0164	3.385	85.98	G	G	AD
LE 026D 03	.375	9.53	.026	.66	2.30	1.043	.22	.100	1.250	31.75	0.720	.0129	4.140	105.16	G	G	AD
LE 026D 04									1.375	34.93	0.600	.0107	4.845	123.06	G	G	AD
LE 026D 05									1.500	38.10	0.500	.0089	5.660	143.76	G	G	AD
LE 026D 06									1.750	44.45	0.390	.0070	7.080	179.83	G	G	AD

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 031D 0	.375	9.53	.031	.79	3.40	1.542	.30	.136	0.875	22.23	4.860	.0868	1.515	38.48	J	J	AE
LE 031D 01									1.000	25.40	3.100	.0554	2.000	50.80	G	G	AD
LE 031D 02									1.125	28.58	2.300	.0411	2.475	62.87	G	G	AD
LE 031D 03									1.250	31.75	1.800	.0321	2.970	75.44	G	G	AD
LE 031D 04									1.375	34.93	1.500	.0268	3.445	87.50	G	G	AD
LE 031D 05									1.500	38.10	1.300	.0232	3.880	98.55	G	G	AD
LE 031D 06									1.750	44.45	0.960	.0171	4.980	126.49	G	G	AD
LE 031D 07									2.000	50.80	0.780	.0139	5.970	151.64	G	G	AE
LE 031D 08									2.250	57.15	0.660	.0118	6.950	176.53	G	G	AE
LE 031D 09									2.500	63.50	0.570	.0102	7.940	201.68	G	G	AE
LE 031D 10									2.750	69.85	0.500	.0089	8.950	227.33	J	J	AG
LE 031D 11									3.000	76.20	0.450	.0080	9.890	251.21	J	J	AG
LE 034D 01	.375	9.53	.034	.86	4.60	2.087	.50	.227	1.000	25.40	4.800	.0857	1.850	46.99	G	G	AD
LE 034D 02									1.125	28.58	3.600	.0643	2.265	57.53	G	G	AD
LE 034D 03									1.250	31.75	2.800	.0500	2.710	68.83	G	G	AD
LE 034D 04									1.375	34.93	2.400	.0429	3.085	78.36	G	G	AD
LE 034D 05									1.500	38.10	2.000	.0357	3.550	90.17	G	G	AD
LE 034D 06									1.750	44.45	1.600	.0286	4.310	109.47	J	J	AG
LE 034D 07									2.000	50.80	1.300	.0232	5.150	130.81	K	L	AK
LE 034D 08									2.250	57.15	1.073	.0192	6.071	154.20	K	L	AK
LE 034D 09									2.500	63.50	0.928	.0166	6.918	175.72	K	L	AK
LE 034D 10									2.750	69.85	0.818	.0146	7.762	197.15	K	L	AK
LE 034D 11									3.000	76.20	0.731	.0131	8.609	218.67	K	L	AK
LE 034D 12									3.500	88.90	0.603	.0108	10.299	261.59	L	M	AL
LE 034D 13									4.000	101.60	0.513	.0092	11.992	304.60	L	M	AL
LE 034D 14									4.500	114.30	0.446	.0080	13.693	347.80	M	N	AM
LE 034D 15									5.000	127.00	0.395	.0071	15.380	390.65	M	N	AM
LE 037D 0	.375	9.53	.037	.94	5.80	2.631	.70	.318	0.750	19.05	24.300	.4339	0.960	24.38	J	J	AE
LE 037D 01									1.000	25.40	7.700	.1375	1.660	42.16	G	G	AD
LE 037D 02									1.125	28.58	5.600	.1000	2.035	51.69	G	G	AD
LE 037D 03									1.250	31.75	4.400	.0786	2.410	61.21	G	G	AD
LE 037D 04									1.375	34.93	3.700	.0661	2.755	69.98	G	G	AD
LE 037D 05									1.500	38.10	3.200	.0571	3.090	78.49	G	G	AD
LE 037D 06									1.750	44.45	2.400	.0429	3.880	98.55	J	J	AG
LE 037D 07									2.000	50.80	2.000	.0357	4.550	115.57	K	K	AJ
LE 037D 08									2.250	57.15	1.700	.0304	5.250	133.35	K	L	AK
LE 037D 09									2.500	63.50	1.400	.0250	6.140	155.96	K	L	AK
LE 037D 10									2.750	69.85	1.260	.0225	6.800	172.72	K	L	AK
LE 037D 11									3.000	76.20	1.140	.0204	7.470	189.74	K	L	AK
LE 037D 12									3.500	88.90	0.942	.0168	8.914	226.42	L	M	AL
LE 037D 13									4.000	101.60	0.801	.0143	10.367	263.32	L	M	AL
LE 037D 14									4.500	114.30	0.698	.0125	11.807	299.90	M	N	AM
LE 037D 15									5.000	127.00	0.618	.0110	13.252	336.60	M	N	AM

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 039D 01									1.000	25.40	9.600	.1714	1.630	41.40	G	G	AD
LE 039D 02									1.125	28.58	7.000	.1250	1.985	50.42	G	G	AD
LE 039D 03									1.250	31.75	5.700	.1018	2.300	58.42	G	G	AD
LE 039D 04									1.375	34.93	4.800	.0857	2.625	66.68	G	G	AD
LE 039D 05									1.500	38.10	4.100	.0732	2.960	75.18	G	G	AD
LE 039D 06	.375	9.53	.039	.99	6.80	3.084	.80	.363	1.750	44.45	3.200	.0571	3.630	92.20	J	J	AG
LE 039D 07									2.000	50.80	2.600	.0464	4.310	109.47	K	L	AK
LE 039D 08									2.250	57.15	2.200	.0393	4.980	126.49	K	L	AK
LE 039D 09									2.500	63.50	1.900	.0339	5.660	143.76	L	M	AL
LE 039D 10									2.750	69.85	1.690	.0302	6.300	160.02	L	M	AL
LE 039D 11									3.000	76.20	1.510	.0270	6.970	177.04	M	N	AM
LE 041D 0									0.750	19.05	38.000	.6786	0.930	23.62	J	J	AE
LE 041D 01									1.000	25.40	12.700	.2268	1.540	39.12	G	G	AD
LE 041D 02									1.125	28.58	9.500	.1697	1.855	47.12	G	G	AD
LE 041D 03									1.250	31.75	7.600	.1357	2.160	54.86	G	G	AD
LE 041D 04									1.375	34.93	6.400	.1143	2.455	62.36	G	G	AD
LE 041D 05									1.500	38.10	5.500	.0982	2.750	69.85	G	G	AD
LE 041D 06									1.750	44.45	4.200	.0750	3.390	86.11	J	J	AG
LE 041D 07									2.000	50.80	3.400	.0607	4.030	102.36	K	L	AK
LE 041D 08	.375	9.53	.041	1.04	7.80	3.538	.90	.408	2.250	57.15	2.900	.0518	4.630	117.60	K	L	AK
LE 041D 09									2.500	63.50	2.500	.0446	5.260	133.60	L	M	AL
LE 041D 10									2.750	69.85	2.190	.0391	5.900	149.86	M	N	AM
LE 041D 11									3.000	76.20	1.960	.0350	6.520	165.61	N	P	AN
LE 041D 12									3.500	88.90	1.630	.0291	7.730	196.34	N	P	AN
LE 041D 13									4.000	101.60	1.380	.0246	8.997	228.52	N	P	AN
LE 041D 14									4.500	114.30	1.200	.0214	10.250	260.35	N	P	AN
LE 041D 15									5.000	127.00	1.070	.0191	11.450	290.83	N	P	AN
LE 045D 0									0.750	19.05	57.000	1.0179	0.900	22.86	J	J	AE
LE 045D 01									1.000	25.40	20.200	.3607	1.440	36.58	G	G	AD
LE 045D 02									1.125	28.58	15.600	.2786	1.685	42.80	G	G	AD
LE 045D 03									1.250	31.75	12.200	.2179	1.970	50.04	G	G	AD
LE 045D 04									1.375	34.93	10.100	.1804	2.245	57.02	G	G	AD
LE 045D 05									1.500	38.10	8.800	.1572	2.500	63.50	G	G	AD
LE 045D 06									1.750	44.45	7.500	.1339	2.920	74.17	J	J	AG
LE 045D 07									2.000	50.80	5.600	.1000	3.570	90.68	J	K	AK
LE 045D 08	.375	9.53	.045	1.14	10.00	4.536	1.20	.544	2.250	57.15	4.800	.0857	4.080	103.63	K	L	AK
LE 045D 09									2.500	63.50	4.100	.0732	4.650	118.11	L	M	AL
LE 045D 10									2.750	69.85	3.600	.0643	5.190	131.83	L	M	AM
LE 045D 11									3.000	76.20	3.200	.0571	5.750	146.05	L	M	AN
LE 045D 12									3.500	88.90	2.600	.0464	6.880	174.75	M	N	AN
LE 045D 13									4.000	101.60	2.250	.0402	7.910	200.91	M	N	AN
LE 045D 14									4.500	114.30	1.980	.0354	8.940	227.08	N	P	AN
LE 045D 15									5.000	127.00	1.760	.0314	10.000	254.00	N	P	AN
LE 045D 16									5.500	139.70	1.580	.0282	11.070	281.18	N	R	AO
LE 045D 17									6.000	152.40	1.430	.0255	12.154	308.71	N	R	AO

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 049D 01	.375	9.53	.049	1.24	13.00	5.897	1.50	.680	1.000	25.40	30.000	.5357	1.380	35.05	J	J	AE
LE 049D 02									1.125	28.58	23.700	.4232	1.615	41.02	J	J	AE
LE 049D 03									1.250	31.75	19.000	.3393	1.860	47.24	J	J	AE
LE 049D 04									1.375	34.93	16.000	.2857	2.095	53.21	J	J	AE
LE 049D 05									1.500	38.10	13.900	.2482	2.330	59.18	J	J	AE
LE 049D 06									1.750	44.45	10.800	.1929	2.810	71.37	K	K	AJ
LE 049D 07									2.000	50.80	9.000	.1607	3.280	83.31	K	L	AK
LE 049D 08									2.250	57.15	7.500	.1339	3.780	96.01	L	M	AL
LE 049D 09									2.500	63.50	6.400	.1143	4.300	109.22	N	P	AN
LE 049D 10									2.750	69.85	5.800	.1036	4.730	120.14	N	P	AN
LE 049D 11									3.000	76.20	5.200	.0929	5.210	132.33	N	P	AN
LE 049D 12									3.500	88.90	4.200	.0750	6.240	158.50	N	R	AO
LE 049D 13									4.000	101.60	3.600	.0643	7.190	182.63	P	S	AP
LE 049D 14									4.500	114.30	3.200	.0571	8.090	205.49	R	T	AR
LE 049D 15									5.000	127.00	2.770	.0495	9.150	232.41	S	U	AS
LE 049D 16									5.500	139.70	2.500	.0446	10.100	256.54	S	U	AS
LE 049D 17									6.000	152.40	2.270	.0405	11.066	281.08	S	W	AT
LE 052D 01	.375	9.53	.052	1.32	15.50	7.031	1.75	.794	1.000	25.40	40.700	.7268	1.340	34.04	K	K	AJ
LE 052D 02									1.125	28.58	31.000	.5536	1.565	39.75	K	K	AJ
LE 052D 03									1.250	31.75	25.000	.4465	1.800	45.72	K	K	AJ
LE 052D 04									1.375	34.93	21.700	.3875	2.005	50.93	K	K	AJ
LE 052D 05									1.500	38.10	18.600	.3322	2.240	56.90	K	K	AJ
LE 052D 06									1.750	44.45	14.500	.2589	2.700	68.58	K	K	AJ
LE 052D 07									2.000	50.80	13.100	.2339	3.050	77.47	K	K	AK
LE 052D 08									2.250	57.15	10.200	.1822	3.600	91.44	L	L	AL
LE 052D 09									2.500	63.50	8.800	.1572	4.060	103.12	N	N	AN
LE 052D 10									2.750	69.85	7.800	.1393	4.510	114.55	N	N	AN
LE 052D 11									3.000	76.20	7.000	.1250	4.960	125.98	N	P	AN
LE 055D 0	.375	9.53	.055	1.40	17.50	7.938	2.00	.907	1.000	25.40	55.800	.9965	1.280	32.51	K	L	AK
LE 055D 0A									1.125	28.58	42.664	.7619	1.488	37.80	K	L	AK
LE 055D 01									1.250	31.75	34.800	.6215	1.700	43.18	K	L	AK
LE 055D 02									1.375	34.93	29.800	.5322	1.895	48.13	K	L	AK
LE 055D 03									1.500	38.10	25.400	.4536	2.110	53.59	K	L	AK
LE 055D 04									1.750	44.45	19.900	.3554	2.530	64.26	K	L	AK
LE 055D 05									2.000	50.80	16.400	.2929	2.950	74.93	L	M	AL
LE 055D 06									2.250	57.15	13.900	.2482	3.370	85.60	N	P	AN
LE 055D 07									2.500	63.50	11.900	.2125	3.800	96.52	N	P	AN
LE 055D 08									2.750	69.85	10.600	.1893	4.210	106.93	N	P	AN
LE 055D 09									3.000	76.20	9.500	.1697	4.630	117.60	N	R	AO
LE 055D 10									3.500	88.90	7.900	.1411	5.460	138.68	N	S	AP
LE 055D 11									4.000	101.60	6.800	.1214	6.280	159.51	P	T	AR
LE 055D 12									4.500	114.30	5.900	.1054	7.130	181.10	R	U	AS
LE 055D 13									5.000	127.00	5.300	.0946	7.920	201.17	S	W	AT
LE 055D 14									5.500	139.70	4.680	.0836	8.810	223.77	T	X	AU
LE 055D 15									6.000	152.40	4.230	.0755	9.660	245.36	U	X	AU

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 058D 01									1.000	25.40	71.100	1.2697	1.250	31.75	L	M	AL
LE 058D 02									1.125	28.58	56.100	1.0018	1.435	36.45	L	M	AL
LE 058D 03									1.250	31.75	44.400	.7929	1.640	41.66	L	M	AL
LE 058D 04									1.375	34.93	38.100	.6804	1.835	46.61	L	M	AL
LE 058D 05									1.500	38.10	33.300	.5947	2.030	51.56	L	M	AL
LE 058D 06									1.750	44.45	26.000	.4643	2.420	61.47	L	M	AL
LE 058D 07									2.000	50.80	21.800	.3893	2.800	71.12	L	M	AL
LE 058D 08									2.250	57.15	18.400	.3286	3.200	81.28	M	N	AN
LE 058D 09	.375	9.53	.058	1.47	20.00	9.072	2.50	1.134	2.500	63.50	15.900	.2839	3.600	91.44	P	R	AO
LE 058D 10									2.750	69.85	14.200	.2536	3.980	101.09	P	R	AO
LE 058D 11									3.000	76.20	12.700	.2268	4.380	111.25	R	S	AP
LE 058D 12									3.500	88.90	10.570	.1888	5.156	130.96	R	U	AS
LE 058D 13									4.000	101.60	9.030	.1613	5.938	150.83	R	U	AS
LE 058D 14									4.500	114.30	7.880	.1407	6.721	170.71	R	W	AT
LE 058D 15									5.000	127.00	6.990	.1248	7.504	190.60	S	Y	AW
LE 058D 16									5.500	139.70	6.280	.1121	8.287	210.49	T	Z	AX
LE 058D 17									6.000	152.40	5.700	.1018	9.070	230.38	U	AA	AY
LE 037DD 01									1.000	25.40	8.800	.1572	1.492	37.90	K	L	AK
LE 037DD 02									1.125	28.58	5.500	.0982	1.912	48.56	K	L	AK
LE 037DD 03									1.250	31.75	3.900	.0696	2.360	59.94	K	L	AK
LE 037DD 04									1.375	34.93	3.100	.0554	2.772	70.41	L	M	AL
LE 037DD 05									1.500	38.10	2.500	.0446	3.232	82.09	M	N	AM
LE 037DD 06	.420	10.67	.037	.94	4.83	2.191	.50	.227	1.750	44.45	1.900	.0339	4.028	102.31	P	R	AO
LE 037DD 07									2.000	50.80	1.500	.0268	4.886	124.10	P	R	AO
LE 037DD 08									2.250	57.15	1.200	.0214	5.858	148.79	R	S	AP
LE 037DD 09									2.500	63.50	1.000	.0179	6.826	173.38	R	S	AP
LE 037DD 10									2.750	69.85	0.900	.0161	7.557	191.95	S	T	AR
LE 037DD 11									3.000	76.20	0.800	.0143	8.412	213.66	S	T	AR
LE 045DD 01									1.000	25.40	17.790	.3177	1.444	36.68	K	L	AK
LE 045DD 02									1.125	28.58	12.500	.2232	1.757	44.63	K	L	AK
LE 045DD 03									1.250	31.75	9.630	.1720	2.070	52.58	L	M	AL
LE 045DD 04									1.375	34.93	7.830	.1398	2.384	60.55	L	M	AL
LE 045DD 05									1.500	38.10	6.600	.1179	2.697	68.50	M	N	AM
LE 045DD 06	.420	10.67	.045	1.14	8.80	3.992	.90	.408	1.750	44.45	5.020	.0896	3.324	84.43	P	R	AO
LE 045DD 07									2.000	50.80	4.050	.0723	3.951	100.36	R	S	AP
LE 045DD 08									2.250	57.15	3.400	.0607	4.574	116.18	R	S	AP
LE 045DD 09									2.500	63.50	2.920	.0521	5.205	132.21	R	S	AP
LE 045DD 10									2.750	69.85	2.570	.0459	5.824	147.93	S	T	AR
LE 045DD 11									3.000	76.20	2.290	.0409	6.450	163.83	T	U	AS

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 055DD 01	.420	10.67	.055	1.40	16.11	7.307	1.40	.635	1.000	25.40	56.600	1.0108	1.260	32.00	L	M	AL
LE 055DD 02									1.125	28.58	38.800	.6929	1.504	38.20	L	M	AL
LE 055DD 03									1.250	31.75	29.000	.5179	1.757	44.63	L	M	AL
LE 055DD 04									1.375	34.93	23.500	.4197	2.000	50.80	L	M	AL
LE 055DD 05									1.500	38.10	19.500	.3482	2.254	57.25	L	M	AM
LE 055DD 06									1.750	44.45	14.700	.2625	2.751	69.88	M	N	AO
LE 055DD 07									2.000	50.80	11.800	.2107	3.247	82.47	R	S	AP
LE 055DD 08									2.250	57.15	9.800	.1750	3.751	95.28	R	S	AP
LE 055DD 09									2.500	63.50	8.400	.1500	4.251	107.98	R	S	AP
LE 055DD 10									2.750	69.85	7.400	.1321	4.738	120.35	S	T	AR
LE 055DD 11									3.000	76.20	6.600	.1179	5.229	132.82	T	U	AS
LE 037DE 01	.438	11.13	.037	.94	5.50	2.495	.55	.249	1.000	25.40	3.800	.0679	1.880	47.75	K	L	AK
LE 037DE 02									1.125	28.58	3.000	.0536	2.360	59.94	K	L	AK
LE 037DE 03									1.250	31.75	2.400	.0429	3.310	84.07	K	L	AK
LE 037DE 04									1.375	34.93	2.000	.0357	3.855	97.92	L	M	AL
LE 037DE 05									1.500	38.10	1.750	.0313	4.330	109.98	M	N	AM
LE 037DE 06									1.750	44.45	1.400	.0250	5.290	134.37	P	R	AO
LE 037DE 07									2.000	50.80	1.100	.0196	6.500	165.10	P	R	AO
LE 037DE 08									2.250	57.15	0.970	.0173	7.350	186.69	R	S	AP
LE 037DE 09									2.500	63.50	0.850	.0152	8.320	211.33	R	S	AP
LE 037DE 10									2.750	69.85	0.750	.0134	9.350	237.49	S	T	AR
LE 037DE 11									3.000	76.20	0.660	.0118	10.500	266.70	S	T	AR
LE 046DE 01	.438	11.13	.046	1.17	10.00	4.536	1.00	.454	1.000	25.40	18.700	.3339	1.480	37.59	L	M	AL
LE 046DE 02									1.125	28.58	13.200	.2357	1.805	45.85	L	M	AL
LE 046DE 03									1.250	31.75	9.750	.1741	2.170	55.12	L	M	AL
LE 046DE 04									1.375	34.93	8.000	.1429	2.505	63.63	L	M	AL
LE 046DE 05									1.500	38.10	6.800	.1214	2.820	71.63	L	M	AM
LE 046DE 06									1.750	44.45	5.100	.0911	3.510	89.15	M	N	AO
LE 046DE 07									2.000	50.80	4.100	.0732	4.200	106.68	R	S	AP
LE 046DE 08									2.250	57.15	3.400	.0607	4.900	124.46	R	S	AP
LE 046DE 09									2.500	63.50	2.900	.0518	5.600	142.24	R	S	AP
LE 046DE 10									2.750	69.85	2.550	.0455	6.280	159.51	S	T	AR
LE 046DE 11									3.000	76.20	2.250	.0402	7.000	177.80	T	U	AS
LE 055DE 01	.438	11.13	.053	1.35	15.00	6.804	1.50	.680	1.000	25.40	29.000	.5179	1.430	36.32	L	M	AL
LE 055DE 02									1.125	28.58	22.500	.4018	1.700	43.18	L	M	AL
LE 055DE 03									1.250	31.75	19.000	.3393	1.960	49.78	L	M	AL
LE 055DE 04									1.375	34.93	16.000	.2857	2.215	56.26	L	M	AL
LE 055DE 05									1.500	38.10	14.000	.2500	2.460	62.48	L	M	AM
LE 055DE 06									1.750	44.45	11.000	.1964	2.980	75.69	M	N	AO
LE 055DE 07									2.000	50.80	9.300	.1661	3.450	87.63	R	S	AP
LE 055DE 08									2.250	57.15	8.000	.1429	3.940	100.08	R	S	AP
LE 055DE 09									2.500	63.50	6.800	.1214	4.490	114.05	R	S	AP
LE 055DE 10									2.750	69.85	6.000	.1071	5.000	127.00	S	T	AR
LE 055DE 11									3.000	76.20	5.400	.0964	5.500	139.70	T	U	AS

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • ***Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)***

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 034E 01	.500	12.70	.034	.86	3.60	1.633	.30	.136	1.250	31.75	1.890	.0338	3.000	76.20	K	L	AM
LE 034E 02									1.375	34.93	1.420	.0254	3.695	93.85	K	L	AM
LE 034E 03									1.500	38.10	1.100	.0196	4.500	114.30	K	L	AM
LE 034E 04									1.750	44.45	0.790	.0141	5.930	150.62	L	M	AN
LE 034E 05									2.000	50.80	0.610	.0109	7.410	188.21	M	N	AO
LE 034E 06									2.250	57.15	0.500	.0089	8.850	224.79	M	N	AO
LE 037E 01	.500	12.70	.037	.94	4.30	1.950	.40	.181	1.250	31.75	3.000	.0536	2.550	64.77	K	L	AM
LE 037E 02									1.375	34.93	2.200	.0393	3.145	79.88	K	L	AM
LE 037E 03									1.500	38.10	1.700	.0304	3.790	96.27	K	L	AM
LE 037E 04									1.750	44.45	1.200	.0214	5.000	127.00	L	M	AN
LE 037E 05									2.000	50.80	0.900	.0161	6.330	160.78	M	N	AO
LE 037E 06									2.250	57.15	0.770	.0138	7.310	185.67	N	P	AP
LE 037E 07									2.500	63.50	0.700	.0125	8.072	205.03	N	P	AP
LE 037E 08									2.750	69.85	0.600	.0107	9.248	234.90	N	P	AP
LE 037E 09									3.000	76.20	0.500	.0089	10.793	274.14	N	P	AP
LE 037E 10									3.500	88.90	0.400	.0071	13.226	335.94	P	R	AR
LE 037E 11									4.000	101.60	0.300	.0054	16.996	431.70	S	W	AW
LE 037E 12									4.500	114.30	0.290	.0052	17.996	457.10	S	W	AW
LE 037E 13									5.000	127.00	0.200	.0036	24.418	620.22	T	Z	AZ
LE 041E 01	.500	12.70	.041	1.04	5.80	2.631	.50	.227	1.250	31.75	4.900	.0875	2.330	59.18	K	L	AM
LE 041E 02									1.375	34.93	3.700	.0661	2.805	71.25	K	L	AM
LE 041E 03									1.500	38.10	2.900	.0518	3.330	84.58	K	L	AM
LE 041E 04									1.750	44.45	2.100	.0375	4.270	108.46	L	M	AN
LE 041E 05									2.000	50.80	1.600	.0286	5.310	134.87	M	N	AO
LE 041E 06									2.250	57.15	1.300	.0232	6.330	160.78	N	P	AP
LE 041E 07									2.500	63.50	1.110	.0198	7.270	184.66	N	P	AP
LE 041E 08									2.750	69.85	0.960	.0171	8.270	210.06	N	P	AP
LE 041E 09									3.000	76.20	0.800	.0143	9.628	244.55	N	P	AP
LE 041E 10									3.500	88.90	0.700	.0125	11.071	281.20	P	R	AR
LE 041E 11									4.000	101.60	0.600	.0107	12.831	325.91	S	W	AW
LE 041E 12									4.500	114.30	0.500	.0089	15.090	383.29	S	W	AW
LE 041E 13									5.000	127.00	0.400	.0071	18.218	462.74	T	Z	AZ

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 045E 00	.500	12.70	.045	1.14	7.50	3.402	.70	.318	1.000	25.40	21.800	.3893	1.310	33.27	K	L	AM
LE 045E 0									1.250	31.75	7.700	.1375	2.130	54.10	K	L	AM
LE 045E 01									1.375	34.93	5.700	.1018	2.565	65.15	K	L	AM
LE 045E 02									1.500	38.10	4.700	.0839	2.950	74.93	K	L	AM
LE 045E 03									1.750	44.45	3.400	.0607	3.750	95.25	L	M	AN
LE 045E 04									2.000	50.80	2.600	.0464	4.620	117.35	L	M	AO
LE 045E 05									2.250	57.15	2.100	.0375	5.490	139.45	N	P	AP
LE 045E 06									2.500	63.50	1.800	.0321	6.280	159.51	N	P	AP
LE 045E 07									2.750	69.85	1.550	.0277	7.140	181.36	N	P	AP
LE 045E 08									3.000	76.20	1.370	.0245	7.960	202.18	N	P	AP
LE 045E 09									3.500	88.90	1.100	.0196	9.679	245.85	P	R	AR
LE 045E 10									4.000	101.60	0.900	.0161	11.555	293.50	S	W	AW
LE 045E 11									4.500	114.30	0.800	.0143	13.000	330.20	S	W	AW
LE 045E 12									5.000	127.00	0.700	.0125	14.713	373.71	T	Z	AZ
LE 049E 01	.500	12.70	.049	1.24	10.00	4.536	.88	.399	1.250	31.75	11.800	.2107	2.020	51.31	L	M	AN
LE 049E 1A									1.375	34.93	8.850	.1580	2.406	61.11	L	M	AN
LE 049E 02									1.500	38.10	7.260	.1296	2.760	70.10	L	M	AN
LE 049E 03									1.750	44.45	5.240	.0936	3.490	88.65	L	M	AN
LE 049E 04									2.000	50.80	4.000	.0714	4.280	108.71	L	M	AO
LE 049E 05									2.250	57.15	3.300	.0589	5.010	127.25	L	M	AP
LE 049E 06									2.500	63.50	2.800	.0500	5.760	146.30	L	N	AP
LE 049E 07									2.750	69.85	2.400	.0429	6.550	166.37	M	N	AP
LE 049E 08									3.000	76.20	2.140	.0382	7.260	184.40	N	P	AP
LE 049E 09									3.500	88.90	1.750	.0313	8.710	221.23	P	R	AR
LE 049E 10									4.000	101.60	1.470	.0263	10.200	259.08	R	S	AW
LE 049E 11									4.500	114.30	1.270	.0227	11.681	296.70	T	Z	AZ
LE 049E 12									5.000	127.00	1.110	.0198	13.216	335.69	U	AA	AZA
LE 055E 0	.500	12.70	.055	1.40	13.20	5.988	1.30	.590	1.250	31.75	20.640	.3686	1.830	46.48	L	M	AN
LE 055E 01									1.375	34.93	15.600	.2786	2.135	54.23	L	M	AN
LE 055E 02									1.500	38.10	13.000	.2322	2.420	61.47	L	M	AN
LE 055E 03									1.750	44.45	9.400	.1679	3.020	76.71	L	M	AN
LE 055E 04									2.000	50.80	7.400	.1321	3.610	91.69	L	M	AO
LE 055E 05									2.250	57.15	6.100	.1089	4.200	106.68	L	N	AP
LE 055E 06									2.500	63.50	5.200	.0929	4.790	121.67	M	P	AP
LE 055E 07									2.750	69.85	4.500	.0804	5.390	136.91	P	S	AS
LE 055E 08									3.000	76.20	3.900	.0696	6.050	153.67	R	T	AT
LE 055E 09									3.500	88.90	3.200	.0571	7.220	183.39	R	W	AW
LE 055E 10									4.000	101.60	2.700	.0482	8.410	213.61	S	X	AX
LE 055E 11									4.500	114.30	2.300	.0411	9.670	245.62	T	Z	AZ
LE 055E 12									5.000	127.00	2.070	.0370	10.750	273.05	U	AA	AZA

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 063E 0	.500	12.70	.063	1.60	19.00	8.618	2.00	.907	1.250	31.75	40.630	.7256	1.670	42.42	L	M	AN
LE 063E 01									1.375	34.93	31.400	.5607	1.915	48.64	L	M	AN
LE 063E 02									1.500	38.10	25.700	.4590	2.160	54.86	L	M	AN
LE 063E 03									1.750	44.45	18.900	.3375	2.650	67.31	L	M	AN
LE 063E 04									2.000	50.80	14.900	.2661	3.140	79.76	L	M	AO
LE 063E 05									2.250	57.15	12.300	.2197	3.630	92.20	L	R	AR
LE 063E 06									2.500	63.50	10.700	.1911	4.090	103.89	M	R	AR
LE 063E 07									2.750	69.85	9.100	.1625	4.620	117.35	P	S	AS
LE 063E 08									3.000	76.20	8.200	.1464	5.070	128.78	R	T	AT
LE 063E 09									3.500	88.90	6.700	.1196	6.040	153.42	R	W	AW
LE 063E 10									4.000	101.60	5.600	.1000	7.040	178.82	S	X	AX
LE 063E 11									4.500	114.30	4.800	.0857	8.040	204.22	T	Z	AZ
LE 063E 12									5.000	127.00	4.300	.0768	8.950	227.33	U	AB	AZB
LE 067E 01	.500	12.70	.067	1.70	24.02	10.895	3.50	1.588	1.250	31.75	55.310	.9877	1.620	41.15	M	N	AP
LE 067E 02									1.500	38.10	35.580	.6354	2.080	52.83	M	N	AP
LE 067E 03									1.750	44.45	26.230	.4684	2.530	64.26	M	N	AP
LE 067E 04									2.000	50.80	20.770	.3709	2.990	75.95	M	N	AP
LE 067E 05									2.250	57.15	17.190	.3070	3.440	87.38	M	S	AS
LE 067E 06									2.500	63.50	14.660	.2618	3.900	99.06	N	S	AS
LE 067E 07									2.750	69.85	12.780	.2282	4.360	110.74	R	T	AT
LE 067E 08									3.000	76.20	11.330	.2023	4.810	122.17	S	U	AU
LE 067E 09									3.500	88.90	9.230	.1648	5.720	145.29	S	X	AX
LE 067E 10									4.000	101.60	7.790	.1391	6.630	168.40	T	Y	AY
LE 067E 11									4.500	114.30	6.740	.1204	7.540	191.52	U	AA	AZA
LE 067E 12									5.000	127.00	5.940	.1061	8.450	214.63	W	AC	AZC
LE 069E 01	.500	12.70	.069	1.75	25.50	11.567	4.00	1.814	1.250	31.75	64.120	1.1451	1.585	40.26	N	P	SPECIAL ORDER
LE 069E 1A									1.375	34.93	50.350	.8992	1.802	45.77	N	P	
LE 069E 02									1.500	38.10	41.450	.7402	2.019	51.28	N	P	
LE 069E 03									1.750	44.45	30.620	.5468	2.452	62.28	N	P	
LE 069E 04									2.000	50.80	24.280	.4336	2.886	73.30	N	P	
LE 069E 05									2.250	57.15	20.110	.3591	3.319	84.30	N	T	
LE 069E 06									2.500	63.50	17.170	.3066	3.752	95.30	P	T	
LE 069E 07									2.750	69.85	14.970	.2673	4.186	106.32	S	U	
LE 069E 08									3.000	76.20	13.280	.2372	4.619	117.32	T	W	
LE 069E 09									3.500	88.90	10.820	.1932	5.487	139.37	T	Y	
LE 069E 10									4.000	101.60	9.140	.1632	6.352	161.34	U	Z	
LE 069E 11									4.500	114.30	7.900	.1411	7.222	183.44	W	AB	
LE 069E 12									5.000	127.00	6.970	.1245	8.085	205.36	X	AD	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 075E 01	.500	12.70	.075	1.91	35.00	15.876	5.00	2.268	1.250	31.75	97.620	1.7433	1.560	39.62	N	P	SPECIAL ORDER
LE 075E 1A									1.375	34.93	77.280	1.3801	1.763	44.78	N	P	
LE 075E 02									1.500	38.10	63.960	1.1422	1.970	50.04	N	P	
LE 075E 03									1.750	44.45	47.560	.8493	2.380	60.45	N	P	
LE 075E 04									2.000	50.80	37.850	.6759	2.790	70.87	N	P	
LE 075E 05									2.250	57.15	31.440	.5615	3.200	81.28	N	T	
LE 075E 06									2.500	63.50	26.800	.4786	3.620	91.95	P	T	
LE 075E 07									2.750	69.85	23.480	.4193	4.030	102.36	S	U	
LE 075E 08									3.000	76.20	20.840	.3722	4.440	112.78	T	W	
LE 075E 09									3.500	88.90	17.020	.3039	5.260	133.60	T	Y	
LE 075E 10									4.000	101.60	14.380	.2568	6.090	154.69	U	Z	
LE 075E 11									4.500	114.30	12.450	.2223	6.910	175.51	W	AB	
LE 075E 12									5.000	127.00	10.970	.1959	7.730	196.34	X	AD	
LE 055F 00	.625	15.88	.055	1.40	10.50	4.763	1.00	.454	1.500	38.10	9.820	.1754	2.470	62.74	M	N	AR
LE 055F 0									1.750	44.45	6.130	.1095	3.300	83.82	M	N	AR
LE 055F 01									2.000	50.80	4.500	.0804	4.110	104.39	M	N	AR
LE 055F 02									2.250	57.15	3.500	.0625	4.960	125.98	M	N	AR
LE 055F 03									2.500	63.50	2.900	.0518	5.780	146.81	P	S	AU
LE 055F 04									2.750	69.85	2.500	.0446	6.550	166.37	P	T	AW
LE 055F 05									3.000	76.20	2.100	.0375	7.520	191.01	R	U	AX
LE 055F 06									3.500	88.90	1.700	.0304	9.090	230.89	S	X	AZ
LE 055F 07									4.000	101.60	1.400	.0250	10.790	274.07	T	Z	AZB
LE 063F 01	.625	15.88	.063	1.60	15.00	6.804	1.50	.680	2.000	50.80	8.900	.1589	3.520	89.41	N	R	AT
LE 063F 02									2.250	57.15	6.700	.1196	4.260	108.20	N	S	AU
LE 063F 03									2.500	63.50	5.800	.1036	4.830	122.68	P	T	AW
LE 063F 04									2.750	69.85	4.900	.0875	5.510	139.95	P	U	AX
LE 063F 05									3.000	76.20	4.300	.0768	6.140	155.96	R	W	AY
LE 063F 06									3.500	88.90	3.400	.0607	7.470	189.74	S	Z	AZB
LE 063F 07									4.000	101.60	2.900	.0518	8.660	219.96	T	AB	AZD
LE 063F 08									4.500	114.30	2.400	.0429	10.130	257.30	U	AD	AZF
LE 063F 09									5.000	127.00	2.130	.0380	11.340	288.04	W	AE	AZG
LE 069F 01	.625	15.88	.069	1.75	19.00	8.618	2.00	.907	2.000	50.80	14.100	.2518	3.210	81.53	N	T	SPECIAL ORDER
LE 069F 02									2.250	57.15	11.300	.2018	3.750	95.25	N	U	
LE 069F 03									2.500	63.50	9.400	.1679	4.310	109.47	P	W	
LE 069F 04									2.750	69.85	8.100	.1446	4.850	123.19	P	X	
LE 069F 05									3.000	76.20	7.100	.1268	5.390	136.91	R	Y	
LE 069F 06									3.500	88.90	5.600	.1000	6.540	166.12	S	AA	
LE 069F 07									4.000	101.60	4.600	.0821	7.700	195.58	T	AC	
LE 069F 08									4.500	114.30	4.000	.0714	8.750	222.25	U	AG	
LE 069F 09									5.000	127.00	3.470	.0620	9.900	251.46	W	AJ	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 055FG 00	.650	16.51	.055	1.40	10.00	4.536	1.00	.454	1.500	38.10	9.820	.1754	2.416	61.37	M	N	AR
LE 055FG 0									1.750	44.45	5.830	.1041	3.294	83.67	M	N	AR
LE 055FG 01									2.000	50.80	4.140	.0739	4.174	106.02	M	N	AR
LE 055FG 02									2.250	57.15	3.210	.0573	5.054	128.37	M	N	AR
LE 055FG 03									2.500	63.50	2.630	.0470	5.922	150.42	P	S	AU
LE 055FG 04									2.750	69.85	2.220	.0396	6.804	172.82	P	T	AW
LE 055FG 05									3.000	76.20	1.920	.0343	7.688	195.28	R	U	AX
LE 055FG 06									3.500	88.90	1.520	.0271	9.421	239.29	S	X	AZ
LE 055FG 07									4.000	101.60	1.250	.0223	11.200	284.48	T	Z	AZB
LE 063FG 00	.650	16.51	.063	1.59	14.50	6.577	1.50	.680	1.500	38.10	18.210	.3252	2.214	56.24	N	R	AT
LE 063FG 0									1.750	44.45	11.070	.1977	2.924	74.27	N	R	AT
LE 063FG 01									2.000	50.80	7.950	.1420	3.635	92.33	N	R	AT
LE 063FG 02									2.250	57.15	6.200	.1107	4.347	110.41	N	S	AU
LE 063FG 03									2.500	63.50	5.080	.0907	5.059	128.50	P	T	AW
LE 063FG 04									2.750	69.85	4.310	.0770	5.766	146.46	P	U	AX
LE 063FG 05									3.000	76.20	3.740	.0668	6.476	164.49	R	W	AY
LE 063FG 06									3.500	88.90	2.950	.0527	7.907	200.84	S	Z	AZB
LE 063FG 07									4.000	101.60	2.440	.0436	9.328	236.93	T	AB	AZD
LE 063FG 08									4.500	114.30	2.080	.0371	10.750	273.05	U	AD	AZF
LE 063FG 09									5.000	127.00	1.810	.0323	12.182	309.42	W	AE	AZG
LE 069FG 0	.650	16.51	.069	1.75	18.50	8.392	2.00	.907	1.750	44.45	18.207	.3251	2.656	67.46	N	T	SPECIAL ORDER
LE 069FG 01									2.000	50.80	13.189	.2355	3.251	82.58	N	T	
LE 069FG 02									2.250	57.15	10.339	.1846	3.846	97.69	N	U	
LE 069FG 03									2.500	63.50	8.502	.1518	4.441	112.80	P	W	
LE 069FG 04									2.750	69.85	7.219	.1289	5.036	127.91	P	X	
LE 069FG 05									3.000	76.20	6.273	.1120	5.630	143.00	R	Y	
LE 069FG 06									3.500	88.90	4.970	.0888	6.820	173.23	S	AA	
LE 069FG 07									4.000	101.60	4.115	.0735	8.010	203.45	T	AC	
LE 069FG 08									4.500	114.30	3.511	.0627	9.200	233.68	U	AG	
LE 069FG 09									5.000	127.00	3.062	.0547	10.389	263.88	W	AJ	
LE 049G 01	.750	19.05	.049	1.24	6.60	2.994	.59	.268	2.000	50.80	2.300	.0411	4.610	117.09	N	T	AX
LE 049G 02									2.250	57.15	1.500	.0268	6.260	159.00	P	U	AY
LE 049G 03									2.500	63.50	1.200	.0214	7.510	190.75	R	X	AZA
LE 049G 04									2.750	69.85	0.900	.0161	9.430	239.52	S	X	AZA
LE 049G 05									3.000	76.20	0.800	.0143	10.510	266.95	S	Z	AZC
LE 049G 06									3.250	82.55	0.700	.0125	11.840	300.74	T	AA	AZD
LE 049G 07									3.500	88.90	0.600	.0107	13.520	343.41	U	AB	AZE
LE 055G 01	.750	19.05	.055	1.40	8.80	3.992	.80	.363	2.000	50.80	3.400	.0607	4.350	110.49	P	T	AX
LE 055G 02									2.250	57.15	2.500	.0446	5.450	138.43	R	U	AY
LE 055G 03									2.500	63.50	2.000	.0357	6.500	165.10	R	X	AZA
LE 055G 04									2.750	69.85	1.600	.0286	7.750	196.85	S	Y	AZB
LE 055G 05									3.000	76.20	1.400	.0250	8.710	221.23	S	Z	AZC
LE 055G 06									3.500	88.90	1.000	.0179	11.500	292.10	U	AC	AZF

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 063G 01	.750	19.05	.063	1.60	12.80	5.806	1.20	.544	2.000	50.80	6.600	.1179	3.760	95.50	N	S	AX
LE 063G 02									2.250	57.15	4.900	.0875	4.620	117.35	P	U	AY
LE 063G 03									2.500	63.50	3.800	.0679	5.550	140.97	P	W	AZA
LE 063G 04									2.750	69.85	3.200	.0571	6.380	162.05	R	X	AZB
LE 063G 05									3.000	76.20	2.700	.0482	7.300	185.42	R	Z	AZC
LE 063G 06									3.500	88.90	2.100	.0375	9.020	229.11	T	AC	AZF
LE 063G 07									4.000	101.60	1.700	.0304	10.820	274.83	U	AD	AZG
LE 063G 08									4.500	114.30	1.400	.0250	12.790	324.87	W	AJ	AZK
LE 063G 09									5.000	127.00	1.200	.0214	14.670	372.62	Y	AK	AZL
LE 063G 10									5.500	139.70	1.100	.0196	16.050	407.67	Y	AL	AZM
LE 069G 01	.750	19.05	.069	1.75	16.50	7.484	1.60	.726	2.000	50.80	10.250	.1830	3.450	87.63	P	T	SPECIAL ORDER
LE 069G 02									2.250	57.15	7.700	.1375	4.190	106.43	P	W	
LE 069G 03									2.500	63.50	6.150	.1098	4.920	124.97	R	X	
LE 069G 04									2.750	69.85	5.130	.0916	5.650	143.51	R	Z	
LE 069G 05									3.000	76.20	4.310	.0770	6.460	164.08	S	AA	
LE 069G 06									3.500	88.90	3.370	.0602	7.920	201.17	U	AD	
LE 069G 07									4.000	101.60	2.730	.0488	9.460	240.28	W	AJ	
LE 069G 08									4.500	114.30	2.320	.0414	10.920	277.37	X	AK	
LE 069G 09									5.000	127.00	2.000	.0357	12.450	316.23	Y	AL	
LE 069G 10									5.500	139.70	1.770	.0316	13.920	353.57	Z	AM	
LE 075G 01	.750	19.05	.075	1.91	20.70	9.390	2.00	.907	2.000	50.80	16.200	.2893	3.150	80.01	P	T	SPECIAL ORDER
LE 075G 02									2.250	57.15	11.800	.2107	3.830	97.28	P	W	
LE 075G 03									2.500	63.50	9.300	.1661	4.510	114.55	R	X	
LE 075G 04									2.750	69.85	7.900	.1411	5.120	130.05	R	Z	
LE 075G 05									3.000	76.20	6.700	.1196	5.790	147.07	S	AA	
LE 075G 06									3.500	88.90	5.200	.0929	7.100	180.34	U	AD	
LE 075G 07									4.000	101.60	4.300	.0768	8.350	212.09	W	AJ	
LE 075G 08									4.500	114.30	3.600	.0643	9.690	246.13	X	AK	
LE 075G 09									5.000	127.00	3.100	.0554	11.030	280.16	Y	AL	
LE 075G 10									5.500	139.70	2.730	.0488	12.350	313.69	Z	AM	
LE 075G 11									6.000	152.40	2.450	.0438	13.630	346.20	AD	AN	
LE 085G 01	.750	19.05	.085	2.16	31.50	14.288	2.80	1.270	2.000	50.80	31.360	.5600	2.920	74.17	R	U	SPECIAL ORDER
LE 085G 02									2.250	57.15	23.180	.4139	3.490	88.65	R	X	
LE 085G 03									2.500	63.50	18.380	.3282	4.060	103.12	S	Y	
LE 085G 04									2.750	69.85	14.810	.2645	4.690	119.13	S	AA	
LE 085G 05									3.000	76.20	13.000	.2322	5.210	132.33	T	AB	
LE 085G 06									3.500	88.90	10.000	.1786	6.370	161.80	W	AE	
LE 085G 07									4.000	101.60	8.200	.1464	7.500	190.50	X	AK	
LE 085G 08									4.500	114.30	6.920	.1236	8.650	219.71	Y	AL	
LE 085G 09									5.000	127.00	6.060	.1082	9.740	247.40	Z	AM	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 093G 01									2.000	50.80	45.500	.8125	2.800	71.12	S	W	
LE 093G 02									2.250	57.15	35.200	.6286	3.290	83.57	S	Y	
LE 093G 03									2.500	63.50	27.600	.4929	3.820	97.03	T	Z	
LE 093G 04									2.750	69.85	23.500	.4197	4.300	109.22	U	AB	
LE 093G 05									3.000	76.20	20.400	.3643	4.790	121.67	W	AC	
LE 093G 06	.750	19.05	.093	2.36	40.00	18.144	3.50	1.588	3.500	88.90	15.800	.2822	5.810	147.57	X	AG	SPECIAL ORDER
LE 093G 07									4.000	101.60	12.900	.2304	6.830	173.48	Y	AL	
LE 093G 08									4.500	114.30	10.900	.1947	7.850	199.39	Z	AM	
LE 093G 09									5.000	127.00	9.600	.1714	8.800	223.52	AA	AN	
LE 093G 10									5.500	139.70	8.600	.1536	9.744	247.50	AB	AO	
LE 093G 11									6.000	152.40	7.700	.1375	10.740	272.80	AC	AP	
LE 105G 01									2.000	50.80	84.000	1.5001	2.600	66.04	T	X	
LE 105G 02									2.250	57.15	64.400	1.1501	3.030	76.96	T	Z	
LE 105G 03									2.500	63.50	52.080	.9300	3.460	87.88	U	AA	
LE 105G 04									2.750	69.85	43.680	.7800	3.900	99.06	W	AC	
LE 105G 05	.750	19.05	.105	2.67	56.02	25.411	6.00	2.722	3.000	76.20	37.520	.6700	4.330	109.98	X	AD	SPECIAL ORDER
LE 105G 06									3.500	88.90	29.680	.5300	5.190	131.83	Y	AJ	
LE 105G 07									4.000	101.60	24.080	.4300	6.080	154.43	Z	AM	
LE 105G 08									4.500	114.30	20.720	.3700	6.910	175.51	AA	AN	
LE 105G 09									5.000	127.00	17.920	.3200	7.790	197.87	AB	AO	
LE 112G 01									2.000	50.80	116.690	2.0839	2.520	64.01	U	Y	
LE 112G 02									2.250	57.15	89.830	1.6042	2.930	74.42	U	AA	
LE 112G 03									2.500	63.50	73.020	1.3040	3.340	84.84	W	AB	
LE 112G 04									2.750	69.85	61.510	1.0984	3.740	95.00	X	AD	
LE 112G 05									3.000	76.20	53.130	.9488	4.150	105.41	Y	AE	
LE 112G 06	.750	19.05	.112	2.84	69.00	31.298	8.00	3.629	3.500	88.90	41.760	.7458	4.960	125.98	Z	AK	SPECIAL ORDER
LE 112G 07									4.000	101.60	34.400	.6143	5.770	146.56	AA	AN	
LE 112G 08									4.500	114.30	29.240	.5222	6.590	167.39	AB	AO	
LE 112G 09									5.000	127.00	25.430	.4541	7.400	187.96	AC	AP	
LE 112G 10									5.500	139.70	22.500	.4018	8.211	208.56	AD	AR	
LE 112G 11									6.000	152.40	20.170	.3602	9.024	229.21	AE	AS	
LE 125G 01									2.000	50.80	205.360	3.6673	2.331	59.21	AD	AL	
LE 125G 02									2.250	57.15	159.720	2.8523	2.676	67.97	AD	AL	
LE 125G 03									2.500	63.50	130.680	2.3337	3.020	76.71	AE	AM	
LE 125G 04									2.750	69.85	110.580	1.9747	3.365	85.47	AE	AM	
LE 125G 05	.750	19.05	.125	3.18	87.00	39.463	19.00	8.618	3.000	76.20	95.830	1.7113	3.710	94.23	AE	AO	SPECIAL ORDER
LE 125G 06									3.500	88.90	75.660	1.3511	4.399	111.73	AG	AS	
LE 125G 07									4.000	101.60	62.500	1.1161	5.088	129.24	AK	AW	
LE 125G 08									4.500	114.30	53.240	.9508	5.777	146.74	AL	AZ	
LE 125G 09									5.000	127.00	46.370	.8281	6.466	164.24	AM	AZB	
LE 055H 01									2.000	50.80	3.200	.0571	4.220	107.19	W	AG	AZK
LE 055H 02	.850	21.59	.055	1.40	7.80	3.538	.70	.318	2.250	57.15	2.100	.0375	5.630	143.00	W	AG	AZK
LE 055H 03									2.500	63.50	1.600	.0286	6.940	176.28	W	AG	AZK
LE 055H 04									2.750	69.85	1.200	.0214	8.670	220.22	W	AG	AZK

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 063H 01	.850	21.59	.063	1.60	11.30	5.126	1.00	.454	2.250	57.15	3.900	.0696	4.890	124.21	X	AJ	AZL
LE 063H 02									2.500	63.50	2.900	.0518	6.050	153.67	X	AJ	AZL
LE 063H 03									2.750	69.85	2.300	.0411	7.230	183.64	X	AJ	AZL
LE 063H 04									3.000	76.20	1.900	.0339	8.420	213.87	Y	AL	AZN
LE 063H 05									3.500	88.90	1.400	.0250	10.860	275.84	Y	AL	AZN
LE 075H 01	.850	21.59	.075	1.91	18.40	8.346	1.70	.771	2.250	57.15	9.700	.1732	3.970	100.84	Y	AK	SPECIAL ORDER
LE 075H 02									2.500	63.50	7.500	.1339	4.730	120.14	Y	AK	
LE 075H 03									2.750	69.85	6.000	.1071	5.530	140.46	Y	AK	
LE 075H 04									3.000	76.20	5.000	.0893	6.340	161.04	Y	AK	
LE 075H 05									3.500	88.90	3.800	.0679	7.890	200.41	Z	AL	
LE 075H 06									4.000	101.60	3.000	.0536	9.570	243.08	Z	AL	
LE 075H 07									4.500	114.30	2.500	.0446	11.180	283.97	AA	AM	
LE 075H 08									4.750	120.65	2.300	.0411	12.010	305.05	AA	AM	
LE 075H 09									5.000	127.00	2.200	.0393	12.590	319.79	AA	AM	
LE 085H 0	.850	21.59	.085	2.16	25.90	11.748	2.40	1.089	2.000	50.80	27.000	.4822	2.870	72.90	Z	AL	SPECIAL ORDER
LE 085H 01									2.250	57.15	19.200	.3429	3.470	88.14	Z	AL	
LE 085H 02									2.500	63.50	14.000	.2500	4.180	106.17	Z	AL	
LE 085H 03									2.750	69.85	11.100	.1982	4.870	123.70	Z	AL	
LE 085H 04									3.000	76.20	9.500	.1697	5.470	138.94	Z	AL	
LE 085H 05									3.500	88.90	7.300	.1304	6.720	170.69	AB	AN	
LE 085H 06									4.000	101.60	5.800	.1036	8.050	204.47	AB	AN	
LE 085H 07									4.500	114.30	4.900	.0875	9.300	236.22	AB	AN	
LE 085H 08									4.750	120.65	4.500	.0804	9.970	253.24	AB	AN	
LE 085H 09									5.000	127.00	4.100	.0732	10.730	272.54	AB	AN	
LE 085H 10									5.500	139.70	3.600	.0643	12.030	305.56	AB	AN	
LE 085H 11									6.000	152.40	3.250	.0580	13.230	336.04	AB	AN	
LE 063J 01	1.000	25.40	.063	1.60	9.70	4.400	.90	.408	2.500	63.50	2.600	.0464	5.880	149.35	Z	AL	AZO
LE 063J 02									2.750	69.85	1.900	.0339	7.380	187.45	Z	AL	AZO
LE 063J 03									3.000	76.20	1.500	.0268	8.870	225.30	Z	AL	AZO
LE 063J 04									3.250	82.55	1.200	.0214	10.580	268.73	Z	AL	AZO
LE 075J 01	1.000	25.40	.075	1.91	15.70	7.122	1.40	.635	2.500	63.50	6.300	.1125	4.770	121.16	AA	AL	SPECIAL ORDER
LE 075J 02									2.750	69.85	4.600	.0821	5.860	148.84	AA	AL	
LE 075J 03									3.000	76.20	3.600	.0643	6.970	177.04	AA	AL	
LE 075J 04									3.500	88.90	2.600	.0464	9.000	228.60	AA	AM	
LE 075J 05									4.000	101.60	2.000	.0357	11.150	283.21	AB	AM	
LE 075J 06									4.500	114.30	1.700	.0304	12.910	327.91	AC	AO	
LE 075J 07									5.000	127.00	1.400	.0250	15.210	386.33	AC	AO	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • ***Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)***

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 085J 0									2.500	63.50	11.510	.2055	4.264	108.31	AA	AM	
LE 085J 01									2.750	69.85	8.500	.1518	5.140	130.56	AA	AM	
LE 085J 02									3.000	76.20	6.800	.1214	5.990	152.15	AA	AM	
LE 085J 03	1.000	25.40	.085	2.16	22.30	10.115	2.00	.907	3.500	88.90	5.000	.0893	7.560	192.02	AA	AM	SPECIAL ORDER
LE 085J 04									4.000	101.60	3.900	.0696	9.210	233.93	AB	AN	
LE 085J 05									4.500	114.30	3.200	.0571	10.840	275.34	AD	AO	
LE 085J 06									5.000	127.00	2.700	.0482	12.520	318.01	AD	AO	
LE 095J 0									2.500	63.50	24.100	.4304	3.633	92.28	AB	AM	
LE 095J 01									2.750	69.85	15.000	.2679	4.570	116.08	AB	AM	
LE 095J 02									3.000	76.20	12.200	.2179	5.240	133.10	AB	AM	
LE 095J 03									3.500	88.90	8.700	.1554	6.640	168.66	AB	AM	
LE 095J 04									4.000	101.60	6.900	.1232	7.960	202.18	AD	AO	
LE 095J 05	1.000	25.40	.095	2.41	30.00	13.608	2.70	1.225	4.500	114.30	5.600	.1000	9.380	238.25	AD	AO	
LE 095J 06									5.000	127.00	4.800	.0857	10.690	271.53	AE	AP	SPECIAL ORDER
LE 095J 07									5.500	139.70	4.120	.0736	12.130	308.10	AJ	AR	
LE 095J 08									6.000	152.40	3.660	.0654	13.460	341.88	AK	AS	
LE 095J 09									6.500	165.10	3.270	.0584	14.850	377.19	AL	AT	
LE 095J 10									7.000	177.80	2.960	.0529	16.220	411.99	AM	AU	
LE 095J 11									8.000	203.20	2.400	.0429	19.373	492.07	AO	AZE	
LE 095J 12									9.000	228.60	2.100	.0375	22.000	558.80	AO	AZE	
LE 105J 0									2.500	63.50	39.000	.6965	3.423	86.94	AC	AK	
LE 105J 01									2.750	69.85	23.200	.4143	4.300	109.22	AC	AK	
LE 105J 02									3.000	76.20	19.500	.3482	4.850	123.19	AD	AL	
LE 105J 03									3.500	88.90	13.900	.2482	6.090	154.69	AE	AM	
LE 105J 04									4.000	101.60	11.100	.1982	7.240	183.90	AE	AP	
LE 105J 05									4.500	114.30	9.020	.1611	8.490	215.65	AJ	AS	
LE 105J 06	1.000	25.40	.105	2.67	40.00	18.144	4.00	1.814	5.000	127.00	7.730	.1380	9.660	245.36	AK	AW	SPECIAL ORDER
LE 105J 07									5.500	139.70	6.670	.1191	10.900	276.86	AL	AZ	
LE 105J 08									6.000	152.40	5.870	.1048	12.130	308.10	AM	AZC	
LE 105J 09									6.500	165.10	5.310	.0948	13.280	337.31	AN	AZD	
LE 105J 10									7.000	177.80	4.810	.0859	14.480	367.79	AO	AZE	
LE 105J 11									8.000	203.20	4.200	.0750	16.571	420.90	AO	AZE	
LE 105J 12									9.000	228.60	3.600	.0643	19.000	482.60	AP	AZE	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 115J 0	1.000	25.40	.115	2.92	50.00	22.680	5.00	2.268	2.500	63.50	60.400	1.0786	3.245	82.42	AD	AL	SPECIAL ORDER
LE 115J 01									2.750	69.85	38.200	.6822	3.930	99.82	AD	AL	
LE 115J 02									3.000	76.20	30.200	.5393	4.490	114.05	AD	AN	
LE 115J 03									3.500	88.90	22.700	.4054	5.480	139.19	AE	AR	
LE 115J 04									4.000	101.60	17.700	.3161	6.540	166.12	AJ	AU	
LE 115J 05									4.500	114.30	14.500	.2589	7.600	193.04	AK	AY	
LE 115J 06									5.000	127.00	12.500	.2232	8.600	218.44	AL	AZA	
LE 115J 07									5.500	139.70	10.800	.1929	9.670	245.62	AM	AZB	
LE 115J 08									6.000	152.40	9.500	.1697	10.740	272.80	AN	AZC	
LE 115J 09									6.500	165.10	8.600	.1536	11.730	297.94	AO	AZD	
LE 115J 10									7.000	177.80	7.800	.1393	12.770	324.36	AP	AZE	
LE 115J 11									8.000	203.20	6.700	.1196	14.716	373.79	AP	AZE	
LE 115J 12									9.000	228.60	5.800	.1036	16.759	425.68	AP	AZE	
LE 125J 0	1.000	25.40	.125	3.18	70.00	31.752	7.00	3.175	2.500	63.50	87.300	1.5590	3.222	81.84	AE	AM	SPECIAL ORDER
LE 125J 01									2.750	69.85	58.210	1.0395	3.830	97.28	AE	AM	
LE 125J 02									3.000	76.20	47.620	.8504	4.320	109.73	AE	AO	
LE 125J 03									3.500	88.90	34.920	.6236	5.300	134.62	AG	AS	
LE 125J 04									4.000	101.60	27.570	.4923	6.290	159.77	AK	AW	
LE 125J 05									4.500	114.30	22.780	.4068	7.270	184.66	AL	AZ	
LE 125J 06									5.000	127.00	19.400	.3464	8.250	209.55	AM	AZB	
LE 125J 07									5.500	139.70	16.900	.3018	9.230	234.44	AN	AZC	
LE 125J 08									6.000	152.40	14.970	.2673	10.210	259.33	AO	AZD	
LE 125J 09									6.500	165.10	13.800	.2464	11.065	281.05	AO	AZD	
LE 125J 10									7.000	177.80	12.500	.2232	12.040	305.82	AP	AZE	
LE 125J 11									8.000	203.20	10.500	.1875	14.000	355.60	AP	AZE	
LE 125J 12									9.000	228.60	9.000	.1607	16.000	406.40	AP	AZE	
LE 135J 0	1.000	25.40	.135	3.43	85.00	38.556	9.00	4.082	2.500	63.50	134.160	2.3958	3.067	77.90	AG	AN	SPECIAL ORDER
LE 135J 01									2.750	69.85	86.230	1.5399	3.630	92.20	AG	AN	
LE 135J 02									3.000	76.20	70.880	1.2658	4.070	103.38	AG	AP	
LE 135J 03									3.500	88.90	52.280	.9336	4.950	125.73	AJ	AT	
LE 135J 04									4.000	101.60	41.410	.7395	5.840	148.34	AL	AX	
LE 135J 05									4.500	114.30	34.280	.6122	6.720	170.69	AM	AZA	
LE 135J 06									5.000	127.00	29.250	.5223	7.600	193.04	AN	AZC	
LE 135J 07									5.500	139.70	25.500	.4554	8.480	215.39	AO	AZD	
LE 135J 08									6.000	152.40	22.610	.4038	9.360	237.74	AP	AZE	
LE 135J 09									6.500	165.10	20.800	.3714	10.154	257.91	AP	AZE	
LE 135J 10									7.000	177.80	18.900	.3375	11.021	279.93	AR	AZF	
LE 135J 11									8.000	203.20	15.900	.2839	12.780	324.61	AR	AZF	
LE 135J 12									9.000	228.60	13.700	.2447	14.547	369.49	AR	AZF	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • ***Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)***

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 148J 01	1.000	25.40	.148	3.76	112.05	50.826	9.68	4.391	2.500	63.50	202.800	3.6216	3.000	76.20	AJ	AO	SPECIAL ORDER
LE 148J 02									2.750	69.85	159.300	2.8448	3.393	86.18	AK	AR	
LE 148J 03									3.000	76.20	123.900	2.2126	3.826	97.18	AK	AW	
LE 148J 04									3.500	88.90	92.900	1.6590	4.602	116.89	AM	AX	
LE 148J 05									4.000	101.60	71.900	1.2840	5.424	137.77	AP	AZA	
LE 148J 06									4.500	114.30	58.700	1.0483	6.244	158.60	AS	AZB	
LE 148J 07									5.000	127.00	49.600	.8858	7.064	179.43	AW	AZD	
LE 148J 08									5.500	139.70	43.700	.7804	7.843	199.21	AX	AZF	
LE 148J 09									6.000	152.40	38.500	.6875	8.659	219.94	AZ	AZG	
LE 148J 10									6.500	165.10	34.300	.6125	9.485	240.92	AZA	AZG	
LE 148J 11									7.000	177.80	31.000	.5536	10.302	261.67	AZB	AZH	
LE 148J 12									8.000	203.20	26.200	.4679	11.907	302.44	AZC	AZK	
LE 148J 13									9.000	228.60	22.500	.4018	13.550	344.17	AZD	AZM	
LE 085JK 01	1.125	28.58	.085	2.16	21.00	9.526	1.89	.857	3.000	76.20	7.000	.1250	5.730	145.54	AE	AP	SPECIAL ORDER
LE 085JK 02									3.500	88.90	4.300	.0768	7.940	201.68	AJ	AS	
LE 085JK 03									4.000	101.60	3.100	.0554	10.160	258.06	AK	AW	
LE 085JK 04									4.500	114.30	2.500	.0446	12.140	308.36	AL	AZ	
LE 085JK 05									5.000	127.00	2.000	.0357	14.560	369.82	AM	AZB	
LE 085JK 06									5.500	139.70	1.700	.0304	16.740	425.20	AN	AZC	
LE 085JK 07									6.000	152.40	1.500	.0268	18.740	476.00	AP	AZD	
LE 085JK 08									6.500	165.10	1.300	.0232	21.200	538.48	AR	AZF	
LE 085JK 09									7.000	177.80	1.200	.0214	22.930	582.42	AS	AZH	
LE 105JK 01	1.125	28.58	.105	2.67	37.80	17.146	3.40	1.542	3.000	76.20	19.600	.3500	4.760	120.90	AG	AR	SPECIAL ORDER
LE 105JK 02									3.500	88.90	12.500	.2232	6.250	158.75	AJ	AT	
LE 105JK 03									4.000	101.60	9.200	.1643	7.740	196.60	AL	AX	
LE 105JK 04									4.500	114.30	7.300	.1304	9.210	233.93	AM	AZA	
LE 105JK 05									5.000	127.00	6.000	.1071	10.730	272.54	AN	AZC	
LE 105JK 06									5.500	139.70	5.100	.0911	12.250	311.15	AP	AZD	
LE 105JK 07									6.000	152.40	4.500	.0804	13.640	346.46	AR	AZE	
LE 105JK 08									6.500	165.10	3.900	.0696	15.320	389.13	AS	AZG	
LE 105JK 09									7.000	177.80	3.500	.0625	16.830	427.48	AT	AZJ	
LE 125JK 01	1.125	28.58	.125	3.18	59.60	27.035	5.51	2.499	3.000	76.20	46.200	.8250	4.171	105.94	AJ	AS	SPECIAL ORDER
LE 125JK 02									3.500	88.90	30.300	.5411	5.285	134.24	AK	AU	
LE 125JK 03									4.000	101.60	22.500	.4018	6.404	162.66	AM	AY	
LE 125JK 04									4.500	114.30	17.900	.3197	7.522	191.06	AN	AZB	
LE 125JK 05									5.000	127.00	14.900	.2661	8.630	219.20	AO	AZD	
LE 125JK 06									5.500	139.70	12.700	.2268	9.759	247.88	AR	AZE	
LE 125JK 07									6.000	152.40	11.100	.1982	10.873	276.17	AS	AZF	
LE 125JK 08									6.500	165.10	9.900	.1768	11.964	303.89	AT	AZH	
LE 125JK 09									7.000	177.80	8.900	.1589	13.077	332.16	AU	AZK	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 095K 01									3.250	82.55	7.280	.1300	6.500	165.10	AG	AR	
LE 095K 02									3.500	88.90	5.860	.1046	7.540	191.52	AJ	AT	
LE 095K 03									4.000	101.60	4.220	.0754	9.600	243.84	AL	AX	
LE 095K 04									4.500	114.30	3.300	.0589	11.670	296.42	AM	AZA	
LE 095K 05	1.250	31.75	.095	2.41	26.00	11.794	2.35	1.066	5.000	127.00	2.710	.0484	13.730	348.74	AN	AZC	SPECIAL ORDER
LE 095K 06									5.500	139.70	2.300	.0411	15.780	400.81	AP	AZD	
LE 095K 07									6.000	152.40	1.990	.0355	17.880	454.15	AR	AZE	
LE 095K 08									6.500	165.10	1.760	.0314	19.940	506.48	AS	AZE	
LE 095K 09									7.000	177.80	1.570	.0280	22.060	560.32	AT	AZJ	
LE 095K 10									7.500	190.50	1.430	.0255	24.040	610.62	AU	AZK	
LE 115K 01									3.250	82.55	18.060	.3225	5.510	139.95	AN	AW	
LE 115K 02									3.500	88.90	14.700	.2625	6.270	159.26	AN	AY	
LE 115K 03									4.000	101.60	10.720	.1914	7.800	198.12	AP	AZ	
LE 115K 04									4.500	114.30	8.430	.1505	9.330	236.98	AR	AZB	
LE 115K 05	1.250	31.75	.115	2.92	45.00	20.412	4.25	1.928	5.000	127.00	6.950	.1241	10.860	275.84	AS	AZC	SPECIAL ORDER
LE 115K 06									5.500	139.70	5.910	.1055	12.400	314.96	AU	AZE	
LE 115K 07									6.000	152.40	5.140	.0918	13.930	353.82	AX	AZF	
LE 115K 08									6.500	165.10	4.550	.0813	15.460	392.68	AY	AZH	
LE 115K 09									7.000	177.80	4.080	.0729	16.990	431.55	AZ	AZK	
LE 115K 10									7.500	190.50	3.700	.0661	18.510	470.15	AZA	AZL	
LE 135K 01									3.250	82.55	40.500	.7232	4.700	119.38	AR	AZA	
LE 135K 02									3.500	88.90	34.400	.6143	5.210	132.33	AS	AZB	
LE 135K 03									4.000	101.60	25.500	.4554	6.310	160.27	AT	AZB	
LE 135K 04									4.500	114.30	19.700	.3518	7.480	189.99	AU	AZC	
LE 135K 05	1.250	31.75	.135	3.43	65.00	29.484	6.20	2.812	5.000	127.00	16.400	.2929	8.590	218.19	AX	AZC	SPECIAL ORDER
LE 135K 06									5.500	139.70	13.600	.2429	9.820	249.43	AZ	AZF	
LE 135K 07									6.000	152.40	11.900	.2125	10.940	277.88	AZB	AZG	
LE 135K 08									6.500	165.10	10.600	.1893	12.050	306.07	AZC	AZH	
LE 135K 09									7.000	177.80	9.500	.1697	13.190	335.03	AZD	AZJ	
LE 135K 10									7.500	190.50	8.600	.1536	14.340	364.24	AZE	AZK	
LE 148K 01									3.250	82.55	63.880	1.1408	4.479	113.77	AS	AZB	
LE 148K 02									3.500	88.90	52.820	.9433	4.986	126.64	AT	AZB	
LE 148K 03									4.000	101.60	39.240	.7007	6.001	152.43	AU	AZC	
LE 148K 04									4.500	114.30	31.210	.5573	7.015	178.18	AZ	AZF	
LE 148K 05	1.250	31.75	.148	3.76	86.50	39.236	8.00	3.629	5.000	127.00	25.910	.4627	8.030	203.96	AZB	AZG	SPECIAL ORDER
LE 148K 06									5.500	139.70	22.150	.3956	9.044	229.72	AZC	AZH	
LE 148K 07									6.000	152.40	19.340	.3454	10.059	255.50	AZD	AZJ	
LE 148K 08									6.500	165.10	17.160	.3064	11.075	281.31	AZE	AZL	
LE 148K 09									7.000	177.80	15.430	.2755	12.087	307.01	AZF	AZM	
LE 148K 10									7.500	190.50	14.010	.2502	13.103	332.82	AZG	AZN	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (INCH)

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 125L 01	1.500	38.10	.125	3.18	45.00	20.412	4.20	1.905	4.500	114.30	9.000	.1607	9.030	229.36	AX	AZC	SPECIAL ORDER
LE 125L 02									5.000	127.00	7.100	.1268	10.750	273.05	AY	AZD	
LE 125L 03									5.500	139.70	5.870	.1048	12.450	316.23	AZA	AZE	
LE 125L 04									6.000	152.40	5.000	.0893	14.160	359.66	AZB	AZF	
LE 125L 05									6.500	165.10	4.350	.0777	15.880	403.35	AZC	AZH	
LE 125L 06									7.000	177.80	3.860	.0689	17.570	446.28	AZD	AZJ	
LE 125L 07									7.500	190.50	3.460	.0618	19.290	489.97	AZE	AZL	
LE 125L 08									8.000	203.20	3.140	.0561	20.990	533.15	AZF	AZM	
LE 148L 01	1.500	38.10	.148	3.76	70.63	32.038	6.70	3.039	4.500	114.30	24.300	.4339	7.131	181.13	AY	AZD	SPECIAL ORDER
LE 148L 02									5.000	127.00	18.700	.3339	8.419	213.84	AZ	AZE	
LE 148L 03									5.500	139.70	15.300	.2732	9.678	245.82	AZB	AZF	
LE 148L 04									6.000	152.40	12.900	.2304	10.956	278.28	AZC	AZG	
LE 148L 05									6.500	165.10	11.200	.2000	12.208	310.08	AZD	AZJ	
LE 148L 06									7.000	177.80	9.800	.1750	13.523	343.48	AZE	AZK	
LE 148L 07									7.500	190.50	8.800	.1572	14.765	375.03	AZF	AZM	
LE 148L 08									8.000	203.20	7.900	.1411	16.092	408.74	AZG	AZN	
LE 177L 01	1.500	38.10	.177	4.50	120.96	54.867	10.97	4.976	4.500	114.30	59.900	1.0697	6.336	160.93	AZ	AZG	SPECIAL ORDER
LE 177L 02									5.000	127.00	46.900	.8375	7.345	186.56	AZA	AZH	
LE 177L 03									5.500	139.70	38.500	.6875	8.357	212.27	AZC	AZJ	
LE 177L 04									6.000	152.40	32.700	.5840	9.364	237.85	AZD	AZK	
LE 177L 05									6.500	165.10	28.400	.5072	10.373	263.47	AZE	AZM	
LE 177L 06									7.000	177.80	25.100	.4482	11.382	289.10	AZF	AZN	
LE 177L 07									7.500	190.50	22.500	.4018	12.388	314.66	AZG	AZP	
LE 177L 08									8.000	203.20	20.300	.3625	13.418	340.82	AZH	AZQ	
LE 148N 01	1.750	44.45	.148	3.76	64.33	29.180	5.79	2.626	5.000	127.00	15.000	.2679	8.903	226.14	AZA	AZH	SPECIAL ORDER
LE 148N 02									5.500	139.70	11.500	.2054	10.590	268.99	AZC	AZJ	
LE 148N 03									6.000	152.40	9.400	.1679	12.228	310.59	AZD	AZK	
LE 148N 04									6.500	165.10	7.900	.1411	13.910	353.31	AZE	AZM	
LE 148N 05									7.000	177.80	6.800	.1214	15.609	396.47	AZF	AZN	
LE 148N 06									7.500	190.50	6.000	.1071	17.256	438.30	AZG	AZP	
LE 148N 07									8.000	203.20	5.300	.0946	19.045	483.74	AZH	AZQ	
LE 148N 08									9.000	228.60	4.400	.0786	22.304	566.52	AZJ	AZR	
LE 177N 01	1.750	44.45	.177	4.50	105.51	47.859	9.50	4.309	5.000	127.00	36.600	.6536	7.623	193.62	AZA	AZH	SPECIAL ORDER
LE 177N 02									5.500	139.70	28.500	.5090	8.869	225.27	AZC	AZJ	
LE 177N 03									6.000	152.40	23.300	.4161	10.121	257.07	AZD	AZK	
LE 177N 04									6.500	165.10	19.700	.3518	11.374	288.90	AZE	AZM	
LE 177N 05									7.000	177.80	17.100	.3054	12.615	320.42	AZF	AZN	
LE 177N 06									7.500	190.50	15.100	.2697	13.858	351.99	AZG	AZP	
LE 177N 07									8.000	203.20	13.500	.2411	15.112	383.84	AZH	AZQ	
LE 177N 08									9.000	228.60	11.200	.2000	17.572	446.33	AZJ	AZR	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

LOOPS AT RANDOM POSITION • **Music Wire (Plated), 302 Stainless Steel* (Passivated), or 316 Stainless Steel (Passivated Ultrasonically Cleaned)**

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP		
															Music Wire	302 Stainless*	316 Stainless
	IN.	MM	IN.	MM	LB.	KG	LB.	KG	IN.	MM	LB/IN.	KG/MM	IN.	MM	M	S	S316
LE 207N 01									5.000	127.00	80.200	1.4322	6.845	173.86	AZB	AZJ	
LE 207N 02									5.500	139.70	63.200	1.1286	7.841	199.16	AZD	AZK	
LE 207N 03									6.000	152.40	52.100	.9304	8.840	224.54	AZE	AZL	
LE 207N 04	1.750	44.45	.207	5.26	162.55	73.733	14.59	6.618	6.500	165.10	44.300	.7911	9.840	249.94	AZF	AZN	SPECIAL ORDER
LE 207N 05									7.000	177.80	38.600	.6893	10.833	275.16	AZG	AZO	
LE 207N 06									7.500	190.50	34.200	.6107	11.826	300.38	AZH	AZQ	
LE 207N 07									8.000	203.20	30.600	.5465	12.835	326.01	AZJ	AZR	
LE 207N 08									9.000	228.60	25.400	.4536	14.825	376.56	AZK	AZS	
LE 177P 01									5.500	139.70	24.200	.4322	8.995	228.47	AZD	AZK	
LE 177P 02									6.000	152.40	18.700	.3339	10.523	267.28	AZE	AZL	
LE 177P 03									6.500	165.10	15.300	.2732	12.028	305.51	AZF	AZN	
LE 177P 04	2.000	50.80	.177	4.50	92.95	42.162	8.37	3.797	7.000	177.80	12.900	.2304	13.557	344.35	AZG	AZO	SPECIAL ORDER
LE 177P 05									7.500	190.50	11.100	.1982	15.120	384.05	AZH	AZQ	
LE 177P 06									8.000	203.20	9.800	.1750	16.631	422.43	AZJ	AZR	
LE 177P 07									9.000	228.60	7.900	.1411	19.706	500.53	AZK	AZS	
LE 177P 08									10.000	254.00	6.600	.1179	22.815	579.50	AZL	AZT	
LE 207P 01									5.500	139.70	52.500	.9375	7.981	202.72	AZE	AZL	
LE 207P 02									6.000	152.40	41.100	.7340	9.169	232.89	AZF	AZN	
LE 207P 03									6.500	165.10	33.800	.6036	10.353	262.97	AZG	AZO	
LE 207P 04	2.000	50.80	.207	5.26	143.12	64.919	12.88	5.842	7.000	177.80	28.700	.5125	11.538	293.07	AZH	AZQ	SPECIAL ORDER
LE 207P 05									7.500	190.50	24.900	.4447	12.731	323.37	AZJ	AZR	
LE 207P 06									8.000	203.20	22.000	.3929	13.920	353.57	AZK	AZS	
LE 207P 07									9.000	228.60	17.900	.3197	16.276	413.41	AZL	AZT	
LE 207P 08									10.000	254.00	15.000	.2679	18.683	474.55	AZM	AZU	

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless; "S316" for Type 316 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833). For Type 316 Stainless, multiply Spring Rate and Initial Tension by 5/6 (.833), Maximum Load and Maximum Extended Length should be reduced approximately 75%–90% that of Type 302 Stainless version. Visit leespring.com for more information regarding any S316 Stainless product calculations.

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

EXTENSION SPRINGS: STANDARD SERIES (METRIC)

Music Wire (Plated) or Stainless Steel (Passivated)

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM050ZA 01†	2.50	.098	.50	.019	16.10	3.62	2.45	.55	I	7.90	0.311	7.980	45.57	9.61	0.378	K	K
LEM050ZA 02†									I	10.90	0.429	4.980	28.44	13.64	0.537	K	K
LEM050ZA 03†									I	15.40	0.606	3.190	18.22	19.68	0.775	K	K
LEM055ZB 01†	2.80	.110	.55	.021	19.00	4.27	2.79	.63	I	8.80	0.346	8.180	46.71	10.78	0.424	K	K
LEM055ZB 02†									I	12.10	0.476	5.110	29.18	15.27	0.601	K	K
LEM055ZB 03†									I	17.00	0.669	3.270	18.67	21.96	0.865	K	K
LEM035A 01	3.00	.118	.35	.014	4.90	1.10	0.53	.12	R	12.50	0.492	0.387	2.21	23.67	0.932	K	K
LEM035A 02									R	14.00	0.551	0.322	1.84	27.46	1.081	K	K
LEM035A 03									R	15.50	0.610	0.277	1.58	31.24	1.230	K	K
LEM035A 04									R	17.00	0.669	0.242	1.38	35.03	1.379	K	K
LEM035A 05									R	19.00	0.748	0.208	1.19	39.83	1.568	K	K
LEM035A 06									R	21.00	0.827	0.182	1.04	44.88	1.767	K	K
LEM035A 07									R	23.00	0.906	0.161	0.92	50.19	1.976	K	K
LEM035A 08									R	25.00	0.984	0.145	0.83	54.97	2.164	K	K
LEM035A 09									R	30.00	1.181	0.117	0.67	67.08	2.641	L	L
LEM035A 10									R	35.00	1.378	0.096	0.55	80.21	3.158	L	L
LEM035A 11									R	40.00	1.575	0.084	0.48	91.82	3.615	L	L
LEM063A 01†	3.00	.118	.63	.025	26.20	5.89	4.19	.94	I	9.70	0.382	12.100	69.09	11.55	0.455	K	K
LEM063A 02†									I	13.50	0.531	7.510	42.88	16.46	0.648	K	K
LEM063A 03†									I	19.20	0.756	4.810	27.47	23.82	0.938	K	K
LEM050AB 01†	3.50	.138	.50	.019	12.00	2.70	1.77	.40	I	9.50	0.374	2.350	13.42	13.82	0.544	L	L
LEM050AB 02†									I	12.50	0.492	1.470	8.39	19.41	0.764	L	L
LEM050AB 03†									I	17.00	0.669	0.940	5.37	27.80	1.094	K	K
LEM050AB 04†									I	24.50	0.965	0.590	3.37	41.80	1.646	K	K
LEM050AB 05†									I	290.00	11.417	0.050	0.29	500.00	19.685	AM	AM
LEM055AB 01†	3.50	.138	.55	.021	15.70	3.53	2.38	.54	I	9.90	0.390	3.630	20.73	13.58	0.535	L	L
LEM055AB 02†									I	13.20	0.520	2.270	12.96	19.09	0.752	L	L
LEM055AB 03†									I	18.10	0.713	1.450	8.28	27.30	1.075	K	K
LEM055AB 04†									I	26.40	1.039	0.900	5.14	41.10	1.618	K	K
LEM070AB 01†	3.50	.138	.70	.027	30.70	6.90	4.47	1.00	I	11.10	0.437	11.100	63.38	13.46	0.530	K	K
LEM070AB 02†									I	15.30	0.602	6.950	39.69	19.08	0.751	K	K
LEM070AB 03†									I	21.60	0.850	4.440	25.35	27.50	1.083	K	K
LEM080AC 01†	4.00	.157	.80	.031	39.90	8.97	5.96	1.34	I	12.60	0.496	12.700	72.52	15.26	0.601	K	K
LEM080AC 02†									I	17.40	0.685	8.000	45.68	21.66	0.853	J	J
LEM080AC 03†									I	24.60	0.969	5.100	29.12	31.26	1.231	J	J

R = Loops at Random Position • I = Loops at Inline Position

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM045B 01	4.50	.177	.45	.018	6.85	1.54	.62	.14	R	15.50	0.610	0.366	2.09	32.51	1.280	J	J
LEM045B 02									R	17.00	0.669	0.306	1.75	37.31	1.469	J	J
LEM045B 03									R	19.00	0.748	0.252	1.44	43.64	1.718	J	J
LEM045B 04									R	21.00	0.827	0.215	1.23	49.96	1.967	J	J
LEM045B 05									R	23.00	0.906	0.187	1.07	56.29	2.216	J	J
LEM045B 06									R	25.00	0.984	0.166	0.95	62.33	2.454	J	J
LEM045B 07									R	30.00	1.181	0.128	0.73	78.77	3.101	J	J
LEM045B 08									R	35.00	1.378	0.105	0.60	94.18	3.708	J	J
LEM045B 09									R	40.00	1.575	0.089	0.51	109.86	4.325	K	K
LEM045B 10									R	45.00	1.772	0.077	0.44	125.78	4.952	K	K
LEM045B 11									R	50.00	1.969	0.068	0.39	141.20	5.559	K	K
LEM045B 12									R	55.00	2.165	0.061	0.35	156.59	6.165	L	L
LEM045B 13									R	60.00	2.362	0.054	0.31	174.80	6.882	L	L
LEM060B 01	4.50	.177	.60	.023	15.70	3.53	1.87	.42	R	15.50	0.610	1.632	9.32	23.88	0.940	J	J
LEM060B 02									R	17.00	0.669	1.384	7.90	26.90	1.059	J	J
LEM060B 03									R	19.00	0.748	1.149	6.56	30.94	1.218	J	J
LEM060B 04									R	21.00	0.827	0.982	5.61	34.98	1.377	J	J
LEM060B 05									R	23.00	0.906	0.858	4.90	39.01	1.536	J	J
LEM060B 06									R	25.00	0.984	0.762	4.35	43.03	1.694	J	J
LEM060B 07									R	30.00	1.181	0.594	3.39	53.37	2.101	J	J
LEM060B 08									R	35.00	1.378	0.487	2.78	63.45	2.498	J	J
LEM060B 09									R	40.00	1.575	0.413	2.36	73.53	2.895	J	J
LEM060B 10									R	45.00	1.772	0.359	2.05	83.62	3.292	J	J
LEM060B 11									R	50.00	1.969	0.317	1.81	93.70	3.689	J	J
LEM060B 12									R	55.00	2.165	0.284	1.62	103.76	4.085	J	J
LEM060B 13									R	60.00	2.362	0.257	1.47	113.84	4.482	J	J
LEM063B 01†	4.50	.177	.63	.025	18.30	4.11	2.61	.59	I	12.10	0.476	2.770	15.82	17.75	0.699	K	K
LEM063B 02†									I	15.90	0.626	1.730	9.88	24.94	0.982	K	K
LEM063B 03†									I	21.60	0.850	1.110	6.34	35.70	1.406	J	J
LEM063B 04†									I	31.00	1.220	0.700	4.00	53.60	2.110	J	J
LEM090B 01†	4.50	.177	.90	.035	49.70	11.17	7.45	1.67	I	14.20	0.559	14.300	81.66	17.15	0.675	K	K
LEM090B 02†									I	19.60	0.772	8.960	51.16	24.32	0.957	J	J
LEM090B 03†									I	27.70	1.091	5.730	32.72	35.08	1.381	J	J
LEM070BA 01†	5.00	.197	.70	.027	22.60	5.08	3.39	.76	I	13.50	0.531	3.070	17.53	19.75	0.778	K	K
LEM070BA 02†									I	17.70	0.697	1.920	10.96	27.70	1.091	K	K
LEM070BA 03†									I	24.00	0.945	1.230	7.02	39.60	1.559	J	J
LEM070BA 04†									I	34.50	1.358	0.770	4.40	59.50	2.343	J	J
LEM100BA 01†	5.00	.197	1.00	.039	60.80	13.67	7.52	1.69	I	15.80	0.622	15.900	90.79	19.05	0.750	K	K
LEM100BA 02†									I	21.80	0.858	9.900	56.53	27.00	1.063	K	K
LEM100BA 03†									I	30.80	1.213	6.370	36.37	38.90	1.531	J	J

R = Loops at Random Position • I = Loops at Inline Position

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.
PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.
CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).
*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.
† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

EXTENSION SPRINGS: STANDARD SERIES (METRIC)

Music Wire (Plated) or Stainless Steel (Passivated)

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM050BB 01†	5.50	.217	.50	.019	7.80	1.75	1.02	.23	I	12.70	0.500	0.510	2.91	25.80	1.016	K	K
LEM050BB 02†									I	15.70	0.618	0.310	1.77	36.60	1.441	K	K
LEM050BB 03†									I	20.20	0.795	0.210	1.20	52.90	2.083	J	J
LEM050BB 04†									I	27.70	1.091	0.130	0.74	80.00	3.150	J	J
LEM050BB 05†									I	37.70	1.484	0.090	0.51	116.10	4.571	K	K
LEM080BB 01†	5.50	.217	.80	.031	30.20	6.79	4.79	1.08	I	15.00	0.591	4.000	22.84	21.40	0.843	K	K
LEM080BB 02†									I	19.80	0.780	2.500	14.28	30.00	1.181	K	K
LEM080BB 03†									I	27.00	1.063	1.600	9.14	43.00	1.693	J	J
LEM080BB 04†									I	39.00	1.535	1.000	5.71	64.60	2.543	J	J
LEM080BB 05†									I	290.00	11.417	0.110	0.63	515.00	20.276	AP	AS
LEM110BB 01†	5.50	.217	1.10	.043	72.80	16.37	10.77	2.42	I	17.40	0.685	17.500	99.93	20.94	0.824	K	K
LEM110BB 02†									I	24.00	0.945	11.000	62.81	29.66	1.168	K	K
LEM110BB 03†									I	33.90	1.335	7.000	39.97	42.74	1.683	K	K
LEM055BC 01†	6.00	.236	.55	.021	9.50	2.14	1.09	.25	I	13.90	0.547	0.580	3.31	28.00	1.102	K	K
LEM055BC 02†									I	17.20	0.677	0.360	2.06	39.70	1.563	K	K
LEM055BC 03†									I	22.10	0.870	0.230	1.31	57.20	2.252	J	J
LEM055BC 04†									I	30.40	1.197	0.150	0.86	86.60	3.409	K	K
LEM055BC 05†									I	41.40	1.630	0.110	0.63	125.70	4.949	K	K
LEM120BC 01†	6.00	.236	1.20	.047	85.30	19.18	12.63	2.84	I	19.00	0.748	19.100	109.06	22.80	0.898	K	K
LEM120BC 02†									I	26.20	1.031	12.000	68.52	32.28	1.271	K	K
LEM120BC 03†									I	37.00	1.457	7.630	43.57	46.50	1.831	L	L
LEM055C 01	6.30	.248	.55	.021	8.80	1.98	0.85	0.19	R	15.50	0.610	0.602	3.44	28.70	1.130	J	J
LEM055C 02									R	19.00	0.748	0.340	1.94	42.37	1.668	J	J
LEM055C 03									R	22.00	0.866	0.247	1.41	54.25	2.136	J	J
LEM055C 04									R	25.00	0.984	0.194	1.11	65.89	2.594	J	J
LEM055C 05									R	30.00	1.181	0.144	0.82	85.37	3.361	J	J
LEM055C 06									R	35.00	1.378	0.114	0.65	104.85	4.128	K	K
LEM055C 07									R	40.00	1.575	0.095	0.54	124.08	4.885	K	K
LEM055C 08									R	45.00	1.772	0.081	0.46	143.81	5.662	K	K
LEM055C 09									R	50.00	1.969	0.070	0.40	163.55	6.439	K	K
LEM055C 10									R	55.00	2.165	0.061	0.35	184.79	7.275	K	K
LEM055C 11									R	60.00	2.362	0.056	0.32	201.98	7.952	K	K
LEM055C 12									R	65.00	2.559	0.051	0.29	221.72	8.729	K	K

R = Loops at Random Position • I = Loops at Inline Position

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM075C 01									R	15.50	0.610	2.786	15.91	21.59	0.850	J	J
LEM075C 02									R	19.00	0.748	1.658	9.47	29.41	1.158	J	J
LEM075C 03									R	22.00	0.866	1.231	7.03	35.97	1.416	J	J
LEM075C 04									R	25.00	0.984	0.979	5.59	42.52	1.674	J	J
LEM075C 05									R	30.00	1.181	0.730	4.17	53.62	2.111	J	J
LEM075C 06	6.30	.248	.75	.029	19.60	4.41	2.45	.55	R	35.00	1.378	0.581	3.32	64.47	2.538	J	J
LEM075C 07									R	40.00	1.575	0.483	2.76	75.57	2.975	K	K
LEM075C 08									R	45.00	1.772	0.415	2.37	86.41	3.402	K	K
LEM075C 09									R	50.00	1.969	0.363	2.07	97.26	3.829	K	K
LEM075C 10									R	55.00	2.165	0.322	1.84	108.33	4.265	K	K
LEM075C 11									R	60.00	2.362	0.289	1.65	119.43	4.702	K	K
LEM075C 12									R	65.00	2.559	0.263	1.50	130.28	5.129	K	K
LEM075C 13									R	70.00	2.756	0.240	1.37	141.58	5.574	K	K
LEM080C 01									R	15.50	0.610	3.842	21.94	21.08	0.830	J	J
LEM080C 02									R	19.00	0.748	2.313	13.21	28.14	1.108	J	J
LEM080C 03									R	22.00	0.866	1.725	9.85	34.44	1.356	J	J
LEM080C 04									R	25.00	0.984	1.377	7.86	40.49	1.594	J	J
LEM080C 05									R	30.00	1.181	1.028	5.87	50.57	1.991	J	J
LEM080C 06									R	35.00	1.378	0.821	4.69	60.91	2.398	J	J
LEM080C 07	6.30	.248	.80	.031	24.50	5.51	3.25	.73	R	40.00	1.575	0.683	3.90	71.25	2.805	J	J
LEM080C 08									R	45.00	1.772	0.585	3.34	81.33	3.202	J	J
LEM080C 09									R	50.00	1.969	0.511	2.92	91.67	3.609	J	J
LEM080C 10									R	55.00	2.165	0.455	2.60	101.73	4.005	K	K
LEM080C 11									R	60.00	2.362	0.408	2.33	112.06	4.412	K	K
LEM080C 12									R	65.00	2.559	0.371	2.12	122.15	4.809	K	K
LEM080C 13									R	70.00	2.756	0.340	1.94	132.49	5.216	K	K
LEM080C 14									R	75.00	2.953	0.313	1.79	142.82	5.623	K	K
LEM090C 01†									I	17.10	0.673	4.230	24.15	24.53	0.966	K	K
LEM090C 02†	6.30	.248	.90	.035	37.10	8.34	5.58	1.25	I	22.50	0.886	2.650	15.13	34.40	1.354	J	J
LEM090C 03†									I	30.60	1.205	1.700	9.71	49.20	1.937	J	J
LEM090C 04†									I	44.10	1.736	1.060	6.05	73.80	2.906	K	K
LEM063CA 01†									I	16.10	0.634	0.620	3.54	32.70	1.287	K	K
LEM063CA 02†									I	19.90	0.783	0.390	2.23	46.50	1.831	J	J
LEM063CA 03†	7.00	.276	.63	.025	12.20	2.74	1.67	.38	I	25.60	1.008	0.250	1.43	67.20	2.646	J	J
LEM063CA 04†									I	35.00	1.378	0.160	0.91	101.50	3.996	J	J
LEM063CA 05†									I	47.60	1.874	0.110	0.63	147.30	5.799	K	K
LEM100CA 01†									I	19.00	0.748	4.710	26.89	27.17	1.070	J	J
LEM100CA 02†									I	25.00	0.984	2.940	16.79	38.10	1.500	J	J
LEM100CA 03†	7.00	.276	1.00	.039	45.30	10.18	5.70	1.28	I	34.00	1.339	1.830	10.45	54.40	2.142	J	J
LEM100CA 04†									I	49.00	1.929	1.180	6.74	81.70	3.217	K	K

R = Loops at Random Position • I = Loops at Inline Position

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.
PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.
CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).
*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.
† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

EXTENSION SPRINGS: STANDARD SERIES (METRIC)

Music Wire (Plated) or Stainless Steel (Passivated)

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM140CA 01†	7.00	.276	1.40	.055	114.00	25.63	16.88	3.79	I	22.10	0.870	22.300	127.34	26.46	1.042	K	K
LEM140CA 02†									I	30.50	1.201	13.900	79.37	37.48	1.476	K	K
LEM140CA 03†									I	43.10	1.697	8.910	50.88	54.00	2.126	L	L
LEM070CB 01†	7.50	.295	.70	.027	15.40	3.46	2.18	.49	I	17.50	0.689	0.780	4.45	34.40	1.354	K	K
LEM070CB 02†									I	21.70	0.854	0.490	2.80	48.70	1.917	J	J
LEM070CB 03†									I	28.00	1.102	0.310	1.77	70.20	2.764	J	J
LEM070CB 04†									I	38.50	1.516	0.200	1.14	106.00	4.173	J	J
LEM070CB 05†									I	52.50	2.067	0.130	0.74	153.50	6.043	K	K
LEM110CB 01†	7.50	.295	1.10	.043	55.50	12.48	8.25	1.85	I	20.60	0.811	5.690	32.49	28.90	1.138	K	K
LEM110CB 02†									I	27.20	1.071	3.550	20.27	40.50	1.594	K	K
LEM110CB 03†									I	37.10	1.461	2.280	13.02	57.90	2.280	K	K
LEM110CB 04†									I	53.60	2.110	1.420	8.11	86.80	3.417	L	L
LEM075CD 01	8.00	.315	.75	.029	16.70	3.75	1.65	.37	R	25.00	0.984	0.573	3.27	51.16	2.014	G	G
LEM075CD 02									R	30.00	1.181	0.396	2.26	68.10	2.681	G	G
LEM075CD 03									R	35.00	1.378	0.303	1.73	84.53	3.328	G	G
LEM075CD 04									R	40.00	1.575	0.245	1.40	101.22	3.985	G	G
LEM075CD 05									R	45.00	1.772	0.207	1.18	117.65	4.632	J	J
LEM075CD 06									R	50.00	1.969	0.177	1.01	135.10	5.319	K	K
LEM075CD 07									R	55.00	2.165	0.156	0.89	151.51	5.965	K	K
LEM075CD 08									R	60.00	2.362	0.138	0.79	168.71	6.642	K	K
LEM075CD 09									R	65.00	2.559	0.126	0.72	184.12	7.249	K	K
LEM160CD 01†	8.00	.315	1.60	.063	146.00	32.82	21.81	4.90	I	25.30	0.996	25.400	145.04	30.18	1.188	K	K
LEM160CD 02†									I	34.90	1.374	15.900	90.79	42.71	1.681	K	K
LEM160CD 03†									I	49.30	1.941	10.200	58.24	61.50	2.421	L	M
LEM120CE 01†	8.50	.335	1.20	.047	62.80	14.12	9.22	2.07	I	23.00	0.906	5.430	31.01	32.85	1.293	J	J
LEM120CE 02†									I	30.20	1.189	3.390	19.36	46.00	1.811	J	J
LEM120CE 03†									I	41.00	1.614	2.170	12.39	65.60	2.583	J	J
LEM120CE 04†									I	59.00	2.323	1.350	7.71	98.60	3.882	L	M
LEM120CE 05†									I	290.00	11.417	0.240	1.37	515.00	20.276	AO	AP
LEM080CF 01†	9.00	.354	.80	.031	19.00	4.27	2.73	.61	I	20.60	0.811	0.760	4.34	42.00	1.654	J	J
LEM080CF 02†									I	25.40	1.000	0.470	2.68	59.70	2.350	G	G
LEM080CF 03†									I	32.60	1.283	0.300	1.71	86.10	3.390	G	G
LEM080CF 04†									I	44.60	1.756	0.190	1.08	130.20	5.126	G	G
LEM080CF 05†									I	60.60	2.386	0.130	0.74	188.60	7.425	G	G
LEM180CF 01†	9.00	.354	1.80	.071	180.00	40.47	26.47	5.95	I	28.40	1.118	28.600	163.31	33.77	1.330	L	M
LEM180CF 02†									I	39.20	1.543	17.800	101.64	47.79	1.881	L	M
LEM180CF 03†									I	55.40	2.181	11.500	65.67	68.80	2.709	M	N

R = Loops at Random Position • I = Loops at Inline Position

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM095D 01									R	19.00	0.748	4.492	25.65	24.08	0.948	G	G
LEM095D 02									R	22.00	0.866	2.187	12.49	32.41	1.276	G	G
LEM095D 03									R	25.00	0.984	1.447	8.26	40.74	1.604	G	G
LEM095D 04									R	30.00	1.181	0.925	5.28	54.64	2.151	G	G
LEM095D 05									R	35.00	1.378	0.680	3.88	68.53	2.698	G	G
LEM095D 06	9.50	.374	.95	.037	26.00	5.84	3.15	.71	R	40.00	1.575	0.536	3.06	82.68	3.255	J	J
LEM095D 07									R	45.00	1.772	0.443	2.53	96.57	3.802	J	J
LEM095D 08									R	50.00	1.969	0.378	2.16	110.46	4.349	K	K
LEM095D 09									R	55.00	2.165	0.329	1.88	124.33	4.895	K	L
LEM095D 10									R	60.00	2.362	0.292	1.67	137.97	5.432	K	L
LEM095D 11									R	65.00	2.559	0.263	1.50	151.87	5.979	K	L
LEM095D 12									R	70.00	2.756	0.238	1.36	165.76	6.526	K	L
LEM120D 01									R	25.00	0.984	4.686	26.76	35.15	1.384	G	G
LEM120D 02									R	30.00	1.181	3.082	17.60	45.24	1.781	G	G
LEM120D 03									R	35.00	1.378	2.296	13.11	55.58	2.188	G	G
LEM120D 04									R	40.00	1.575	1.828	10.44	65.91	2.595	G	G
LEM120D 05									R	45.00	1.772	1.520	8.68	76.00	2.992	J	J
LEM120D 06	9.50	.374	1.20	.047	54.00	12.14	6.85	1.54	R	50.00	1.969	1.301	7.43	86.33	3.399	J	K
LEM120D 07									R	55.00	2.165	1.137	6.49	96.39	3.795	K	L
LEM120D 08									R	60.00	2.362	1.009	5.76	106.73	4.202	L	M
LEM120D 09									R	70.00	2.756	0.825	4.71	127.15	5.006	L	M
LEM120D 10									R	80.00	3.150	0.697	3.98	147.57	5.810	L	M
LEM120D 11									R	90.00	3.543	0.602	3.44	168.22	6.623	M	N
LEM120D 12									R	100.00	3.937	0.532	3.04	188.65	7.427	M	N
LEM120D 13									R	115.00	4.528	0.452	2.58	219.41	8.638	N	P
LEM150D 01									R	25.00	0.984	14.604	83.39	30.58	1.204	L	M
LEM150D 02									R	30.00	1.181	9.893	56.49	38.58	1.511	L	M
LEM150D 03									R	35.00	1.378	7.480	42.71	46.18	1.818	L	M
LEM150D 04									R	40.00	1.575	6.014	34.34	53.98	2.125	L	M
LEM150D 05	9.50	.374	1.50	.059	98.00	22.05	14.70	3.30	R	45.00	1.772	5.028	28.71	61.52	2.422	L	M
LEM150D 06									R	50.00	1.969	4.320	24.67	69.32	2.729	L	M
LEM150D 07									R	55.00	2.165	3.786	21.62	77.09	3.035	M	N
LEM150D 08									R	60.00	2.362	3.370	19.24	84.63	3.332	P	R
LEM150D 09									R	70.00	2.756	2.764	15.78	100.23	3.946	P	R
LEM150D 10									R	80.00	3.150	2.341	13.37	115.57	4.550	R	S
LEM090DB 01†									I	23.00	0.906	0.880	5.02	46.10	1.815	K	L
LEM090DB 02†									I	28.40	1.118	0.550	3.14	65.30	2.571	K	L
LEM090DB 03†	10.00	.394	.90	.035	24.00	5.40	3.46	.78	I	36.50	1.437	0.350	2.00	94.10	3.705	L	M
LEM090DB 04†									I	50.00	1.969	0.230	1.31	142.20	5.598	P	R
LEM090DB 05†									I	68.00	2.677	0.150	0.86	206.00	8.110	R	S

R = Loops at Random Position • I = Loops at Inline Position

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.
PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.
CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).
*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.
† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

EXTENSION SPRINGS: STANDARD SERIES (METRIC)

Music Wire (Plated) or Stainless Steel (Passivated)

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM140DB 01†	10.00	.394	1.40	.055	83.60	18.79	12.66	2.85	I	26.90	1.059	6.140	35.06	38.50	1.516	L	M
LEM140DB 02†									I	35.30	1.390	3.830	21.87	53.80	2.118	L	M
LEM140DB 03†									I	47.90	1.886	2.460	14.05	76.80	3.024	M	N
LEM140DB 04†									I	68.90	2.713	1.540	8.79	115.10	4.531	R	S
LEM140DB 05†									I	290.00	11.417	0.320	1.83	510.00	20.079	AO	AP
LEM200DB 01†	10.00	.394	2.00	.079	220.00	49.46	32.94	7.41	I	31.60	1.244	31.800	181.58	37.46	1.475	M	N
LEM200DB 02†									I	43.60	1.717	19.900	113.63	52.98	2.086	M	N
LEM200DB 03†									I	61.60	2.425	12.800	73.09	76.30	3.004	N	S
LEM100DE 01†	11.00	.433	1.00	.039	29.60	6.65	4.18	.94	I	25.40	1.000	1.020	5.82	50.20	1.976	K	L
LEM100DE 02†									I	31.40	1.236	0.640	3.65	71.00	2.795	K	L
LEM100DE 03†									I	40.40	1.591	0.410	2.34	102.30	4.028	N	P
LEM100DE 04†									I	55.40	2.181	0.260	1.48	154.40	6.079	P	R
LEM100DE 05†									I	75.40	2.969	0.170	0.97	224.40	8.835	S	T
LEM160DE 01†	11.00	.433	1.60	.063	111.00	24.95	16.91	3.80	I	30.10	1.185	8.040	45.91	41.80	1.646	L	M
LEM160DE 02†									I	39.70	1.563	5.020	28.66	58.40	2.299	L	M
LEM160DE 03†									I	54.10	2.130	3.220	18.39	83.40	3.283	R	S
LEM160DE 04†									I	78.10	3.075	2.010	11.48	124.90	4.917	T	U
LEM110DF 01†	12.00	.472	1.10	.043	35.80	8.05	5.26	1.18	I	27.80	1.094	1.150	6.57	54.20	2.134	K	L
LEM110DF 02†									I	34.40	1.354	0.720	4.11	76.70	3.020	K	L
LEM110DF 03†									I	44.30	1.744	0.460	2.63	110.40	4.346	L	M
LEM110DF 04†									I	60.80	2.394	0.280	1.60	166.80	6.567	N	P
LEM110DF 05†									I	82.80	3.260	0.200	1.14	241.80	9.520	P	R
LEM180DF 01†	12.00	.472	1.80	.071	141.00	31.70	21.43	4.82	I	33.20	1.307	10.100	57.67	45.10	1.776	N	P
LEM180DF 02†									I	44.00	1.732	6.280	35.86	63.00	2.480	N	P
LEM180DF 03†									I	60.20	2.370	4.020	22.95	89.90	3.539	N	P
LEM180DF 04†									I	87.20	3.433	2.520	14.39	134.80	5.307	T	Y
LEM180DF 05†									I	290.00	11.417	0.680	3.88	465.00	18.307	AR	AS
LEM120E 01	12.50	.492	1.20	.047	39.20	8.82	3.90	.88	R	30.00	1.181	2.074	11.84	47.02	1.851	K	L
LEM120E 02									R	40.00	1.575	0.958	5.47	76.84	3.025	K	L
LEM120E 03									R	50.00	1.969	0.623	3.56	106.65	4.199	L	M
LEM120E 04									R	55.00	2.165	0.531	3.03	121.54	4.785	L	M
LEM120E 05									R	60.00	2.362	0.462	2.64	136.45	5.372	N	P
LEM120E 06									R	65.00	2.559	0.410	2.34	151.10	5.949	N	P
LEM120E 07									R	70.00	2.756	0.366	2.09	166.52	6.556	N	P
LEM120E 08									R	80.00	3.150	0.305	1.74	195.83	7.710	N	P
LEM120E 09									R	90.00	3.543	0.259	1.48	226.14	8.903	P	R
LEM120E 10									R	100.00	3.937	0.228	1.30	255.19	10.047	P	R

R = Loops at Random Position • I = Loops at Inline Position

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM160E 01	12.50	.492	1.60	.063	88.25	19.84	11.80	2.65	R	30.00	1.181	8.543	48.78	38.89	1.531	L	M
LEM160E 02									R	35.00	1.378	5.657	32.30	48.46	1.908	L	M
LEM160E 03									R	40.00	1.575	4.228	24.14	58.04	2.285	L	M
LEM160E 04									R	45.00	1.772	3.377	19.28	67.61	2.662	L	M
LEM160E 05									R	50.00	1.969	2.809	16.04	77.19	3.039	L	M
LEM160E 06									R	55.00	2.165	2.406	13.74	86.74	3.415	L	R
LEM160E 07									R	60.00	2.362	2.103	12.01	96.32	3.792	L	R
LEM160E 08									R	65.00	2.559	1.869	10.67	105.89	4.169	M	R
LEM160E 09									R	70.00	2.756	1.681	9.60	115.47	4.546	P	S
LEM160E 10									R	80.00	3.150	1.399	7.99	134.62	5.300	R	T
LEM160E 11									R	90.00	3.543	1.200	6.85	153.75	6.053	R	W
LEM160E 12									R	100.00	3.937	1.049	5.99	172.90	6.807	S	X
LEM160E 13									R	115.00	4.528	0.883	5.04	201.63	7.938	T	Z
LEM120EB 01†	13.00	.512	1.20	.047	42.20	9.49	6.56	1.47	I	30.20	1.189	1.280	7.31	58.10	2.287	L	M
LEM120EB 02†									I	37.40	1.472	0.800	4.57	82.10	3.232	L	M
LEM120EB 03†									I	48.20	1.898	0.510	2.91	118.00	4.646	L	M
LEM120EB 04†									I	66.20	2.606	0.320	1.83	178.20	7.016	M	P
LEM120EB 05†									I	90.20	3.551	0.210	1.20	258.20	10.165	P	R
LEM200EC 01†	14.00	.551	2.00	.079	164.00	36.87	25.25	5.68	I	38.00	1.496	9.420	53.79	52.70	2.075	N	T
LEM200EC 02†									I	50.00	1.969	5.880	33.58	73.60	2.898	N	T
LEM200EC 03†									I	68.00	2.677	3.770	21.53	104.90	4.130	P	X
LEM200EC 04†									I	98.00	3.858	2.350	13.42	157.00	6.181	T	AC
LEM140ED 01†	15.00	.591	1.40	.055	57.10	12.84	8.50	1.91	I	34.90	1.374	1.550	8.85	66.10	2.602	M	N
LEM140ED 02†									I	43.30	1.705	0.970	5.54	93.30	3.673	M	N
LEM140ED 03†									I	55.90	2.201	0.620	3.54	134.00	5.276	M	N
LEM140ED 04†									I	76.90	3.028	0.390	2.23	201.90	7.949	R	U
LEM140ED 05†									I	105.00	4.134	0.260	1.48	292.00	11.496	T	Z
LEM160FC 01†	17.00	.669	1.60	.063	74.00	16.64	11.62	2.61	I	39.70	1.563	1.820	10.39	74.00	2.913	N	R
LEM160FC 02†									I	49.30	1.941	1.140	6.51	104.10	4.098	N	R
LEM160FC 03†									I	63.70	2.508	0.730	4.17	149.30	5.878	P	T
LEM160FC 04†									I	87.70	3.453	0.460	2.63	224.70	8.846	S	Z
LEM160FC 05†									I	120.00	4.724	0.300	1.71	325.00	12.795	W	AE

R = Loops at Random Position • I = Loops at Inline Position

SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

EXTENSION SPRINGS: STANDARD SERIES (METRIC)

Music Wire (Plated) or Stainless Steel (Passivated)

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		MAXIMUM LOAD		INITIAL TENSION		LOOP POSITION	FREE LENGTH		SPRING RATE		MAXIMUM EXTENDED LENGTH		PRICE GROUP	
																Music Wire	302 Stainless*
	MM	IN.	MM	IN.	N	LB.	N	LB.		MM	IN.	N/MM	LB/IN.	MM	IN.	M	S
LEM160G 01	19.00	.748	1.60	.063	56.90	12.79	5.40	1.21	R	50.00	1.969	1.224	6.99	92.18	3.629	N	S
LEM160G 02									R	55.00	2.165	0.944	5.39	109.60	4.315	P	U
LEM160G 03									R	60.00	2.362	0.767	4.38	127.05	5.002	P	W
LEM160G 04									R	65.00	2.559	0.648	3.70	144.50	5.689	P	W
LEM160G 05									R	70.00	2.756	0.559	3.19	162.20	6.386	R	X
LEM160G 06									R	80.00	3.150	0.440	2.51	197.10	7.760	R	Z
LEM160G 07									R	90.00	3.543	0.363	2.07	231.98	9.133	T	AC
LEM160G 08									R	100.00	3.937	0.308	1.76	267.13	10.517	U	AD
LEM160G 09									R	115.00	4.528	0.252	1.44	319.23	12.568	W	AJ
LEM160G 10									R	130.00	5.118	0.212	1.21	373.08	14.688	Y	AU
LEM160G 11									R	145.00	5.709	0.184	1.05	425.17	16.739	Y	AU
LEM180GH 01†	20.00	.787	1.80	.071	87.00	19.56	13.05	2.93	I	46.00	1.811	1.780	10.16	87.90	3.461	P	T
LEM180GH 02†									I	56.80	2.236	1.110	6.34	123.80	4.874	P	W
LEM180GH 03†									I	73.00	2.874	0.710	4.05	178.00	7.008	S	AA
LEM180GH 04†									I	100.00	3.937	0.440	2.51	267.00	10.512	W	AJ
LEM180GH 05†									I	136.00	5.354	0.290	1.66	387.00	15.236	Z	AM
LEM200HB 01†	22.00	.866	2.00	.079	107.00	24.05	16.11	3.62	I	50.80	2.000	2.030	11.59	95.50	3.760	Y	AK
LEM200HB 02†									I	62.80	2.472	1.270	7.25	134.30	5.287	Y	AK
LEM200HB 03†									I	80.80	3.181	0.810	4.63	192.80	7.591	Z	AL
LEM200HB 04†									I	111.00	4.370	0.510	2.91	290.00	11.417	AA	AM
LEM200HB 05†									I	151.00	5.945	0.340	1.94	419.00	16.496	AC	AP

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SPECIAL INSTRUCTIONS FOR EXTENSION SERIES

STOCK NUMBERS: Add "M" to end of Stock Number for Music Wire; "S" for Type 302 Stainless.

PRICING: See Inside Back Cover for up to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Type 302 Stainless, multiply figures shown by 5/6 (.833).

*Note: Type 302 may be substituted with Type 304 at Lee Spring's discretion.

† Indicates DIN Extension Springs meeting the design parameters outlined in Standard DIN 2097.

MIL-SPEC Springs

Compression MS24585 and Extension MS24586

Materials:

All MIL-SPEC springs are available in the four authorized AS24585 and AS24586 materials:

- Uncoated Music Wire per ASTM A228.
- Cadmium Plated Music Wire in accordance with SAE-AMS-QQ-P-416, Type II, Class 2.
- Zinc Plated Music Wire in accordance with ASTM B633, Type II, Fe/Zn5.
- Corrosion Resistant Stainless Steel 302 per ASTM A313 with passivation treatment in accordance with ASTM A967 or AMS2700. DFARS Compliant material only.

About DFARS Compliance

DFARS regulates the supply country for certain materials. It applies to Stainless Steel but does not apply to Music Wire. For a complete explanation of DFARS Compliance, go to the Regulatory Compliance and Certification Page 383.

MIL-SPEC Springs available in Stock.

When you need MIL-SPEC Springs, Lee Spring simplifies the purchasing process by offering the full range of MIL-SPEC Compression Springs and Extension Springs.

- Simplified pricing – no complicated price grids.
- Paperwork included – no additional charges for material certifications or traceability.
- Free ground shipping in the Continental United States for orders of $40.00 or more.
- DFARS Compliance – all Stainless Steel MIL-SPEC springs meet DFARS specifications.
- Quick RFQ turnaround – quantities over 1000.

About MIL- SPEC Springs

These products are part of the United States Defense Standard. They are used to help achieve standardization objectives set by the U.S. Department of Defense. They are known interchangeably as “military standards”, "MIL-SPEC", “MIL-STD", or "MilSpecs." These high precision designs meet stringent technical requirements and are used in a multitude of Military and Aerospace applications, both defense and non-defense related. MIL-SPEC springs are increasingly specified by other non-Defense government organizations, technical organizations, and highly regulated industries. The MIL-SPEC standard for compression springs for loads below 20 lbs. is AS24585; this standard was formerly MS24585. The MIL-SPEC standard for extension springs for loads below 30 lbs. is AS24586; this was formerly MS24586.

Lee Spring can manufacture custom MIL-SPEC springs to your specifications. Contact us today!

MIL-SPEC Springs

Guide to using tables

Lee Stock Number:
Lee Spring Part Number.

OD:
Spring outer diameter, parts listed in ascending order.

W:
Wire diameter of spring wire.

Active Coils:
Those coils which are free to deflect under load.

Load:
The design load or force to compress spring by its deflection design.

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

MUSIC WIRE			STAINLESS STEEL	OD	W	FREE LENGTH	ACTIVE COILS	DEFLECTION PER COIL	LOAD	DEFLECTION	SOLID HEIGHT	RATE	PRICE GROUP			
UNPLATED (U)	CAD. PLATE (C)	ZINC PLATE (Z)	PASSIVATED (S)	IN	IN	IN		IN	LB	IN	IN	LB/IN	U	C	Z	S
MS24585-1	MS24585-1001		MS24585-C1			.250	4.50			.095	.104	19.30	AN	AO		AO
MS24585-2	MS24585-1002		MS24585-C2			.310	6.25			.131	.132	14.00	AN	AO		AO
MS24585-3	MS24585-1003		MS24585-C3			.380	7.75			.163	.156	11.30	AN	AO		AO
MS24585-4	MS24585-1004		MS24585-C4			.440	9.25			.194	.180	9.50	AN	AO		AO
MS24585-5	MS24585-1005		MS24585-C5	.120	.016	.500	10.50	.0210	1.837	.220	.200	8.30	AN	AO		AO
MS24585-6	MS24585-1006		MS24585-C6			.560	12.00			.252	.224	7.30	AN	AO		AO
MS24585-7	MS24585-1007		MS24585-C7			.620	13.25			.278	.244	6.60	AN	AO		AO
MS24585-8	MS24585-1008		MS24585-C8			.690	15.00			.315	.272	5.80	AN	AO		AO
MS24585-9	MS24585-1009		MS24585-C9			.750	16.50			.346	.296	5.30	AN	AO		AO

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

Deflection Per Coil:
Amount of movement per coil to achieve the design load.

Deflection:
The amount of spring movement under the design load.

Solid Height:
Length when fully compressed.

Rate:
Change in load or force per unit of deflection.

Part Numbers

Be sure to specify the complete numbers as designated by AS24585 and AS24586. MIL-SPEC Springs begin with the prefix MS24585 or MS24586 followed by a hyphen and the part number, e.g., MS24585-1002 or MS24586-C13. The following chart is a helpful reference:

MIL-SPEC	Unplated	Cadmium Plated	Zinc Plated	Stainless Steel
Compression MS24585	MS24585-1 through MS24585-527	MS24585-1001 through MS24585-1527	MS24585-2010 through MS24585-2507	MS24585-C1 through MS24585-C527
Extension MS24586	MS24586-1 through MS24586-354	MS24586-501 through MS24586-854	MS24586-1006 through MS24586-1354	MS24586-C1 through MS24586-C354

How to Determine Price

1. Select the spring you want by LEE STOCK NUMBER.
2. 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.
3. 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.
4. Prices subject to change without notice.

FREE SHIPPING AVAILABLE
See Price List in back of catalog for details.

MUSIC WIRE			STAINLESS STEEL	OD	W	FREE LENGTH	ACTIVE COILS	DEFLECTION PER COIL	MAX LOAD	INIT TENSION	MAX EXT	RATE	PRICE GROUP			
UNPLATED (U)	CAD. PLATE (C)	ZINC PLATE (Z)	PASSIVATED (S)	IN	IN	IN		IN	LB	LB	IN	LB/IN	U	C	Z	S
MS24586-1	MS24586-501		MS24586-C1			1.000	50.5				1.81	1.74	AP	AR		AR
MS24586-2	MS24586-502		MS24586-C2			1.125	58.5				2.07	1.49	AP	AR		AR
MS24586-3	MS24586-503		MS24586-C3	.120	.016	1.250	66.0	.0161	1.6	.2	2.31	1.32	AR	AS		AS
MS24586-4	MS24586-504		MS24586-C4			1.375	74.0				2.57	1.18	AR	AS		AS
MS24586-5	MS24586-505		MS24586-C5			1.500	82.0				2.82	1.06	AR	AS		AS
MS24586-6	MS24586-506	MS24586-1006	MS24586-C6			1.000	45.5				1.60	3.33	AR	AS	AR	AS
MS24586-7	MS24586-507	MS24586-1007	MS24586-C7			1.125	52.0				1.81	2.89	AR	AS	AR	AS
MS24586-8	MS24586-508	MS24586-1008	MS24586-C8			1.250	59.0				2.03	2.55	AR	AS	AR	AS
MS24586-9	MS24586-509	MS24586-1009	MS24586-C9			1.375	66.5				2.25	2.28	AR	AS	AR	AS
MS24586-10	MS24586-510	MS24586-1010	MS24586-C10	.120	.018	1.500	73.0	.0133	2.2	.2	2.47	2.06	AR	AS	AR	AS
MS24586-11	MS24586-511	MS24586-1011	MS24586-C11			1.625	80.0				2.69	1.88	AR	AS	AR	AS
MS24586-12	MS24586-512	MS24586-1012	MS24586-C12			1.750	87.0				2.90	1.72	AR	AS	AR	AS
MS24586-13	MS24586-513	MS24586-1013	MS24586-C13			1.875	94.0				3.12	1.60	AR	AS	AR	AS
MS24586-14	MS24586-514	MS24586-1014	MS24586-C14			2.000	101.0				3.34	1.49	AR	AS	AR	AS
MS24586-15	MS24586-515		MS24586-C15			1.000	41.0				1.45	6.00	AP	AP		AR
MS24586-16	MS24586-516		MS24586-C16			1.125	47.0				1.64	5.24	AP	AP		AR
MS24586-17	MS24586-517		MS24586-C17			1.250	53.5				1.84	4.58	AP	AP		AR
MS24586-18	MS24586-518		MS24586-C18			1.375	60.0				2.04	4.06	AP	AP		AR
MS24586-19	MS24586-519		MS24586-C19	.120	.020	1.500	66.0	.0111	3.0	.3	2.23	3.70	AP	AP		AR
MS24586-20	MS24586-520		MS24586-C20			1.625	72.5				2.43	3.35	AP	AP		AR
MS24586-21	MS24586-521		MS24586-C21			1.750	78.5				2.62	3.10	AR	AS		AS
MS24586-22	MS24586-522		MS24586-C22			1.875	84.5				2.81	2.89	AR	AS		AS
MS24586-23	MS24586-523		MS24586-C23			2.000	91.0				3.01	2.67	AR	AS		AS
MS24586-24	MS24586-524		MS24586-C24			1.000	37.5				1.34	10.38	AP	AR		AR
MS24586-25	MS24586-525		MS24586-C25			1.125	43.0				1.51	9.04	AP	AR		AR
MS24586-26	MS24586-526		MS24586-C26			1.250	49.0				1.69	7.94	AR	AS		AS
MS24586-27	MS24586-527		MS24586-C27			1.375	54.5				1.86	7.20	AR	AS		AS
MS24586-28	MS24586-528		MS24586-C28			1.500	60.0				2.04	6.48	AR	AS		AS
MS24586-29	MS24586-529		MS24586-C29			1.625	66.0				2.22	5.89	AR	AS		AS
MS24586-30	MS24586-530		MS24586-C30	.120	.022	1.750	71.5	.0090	3.9	.4	2.39	5.48	AR	AS		AS
MS24586-31	MS24586-531		MS24586-C31			1.875	77.0				2.57	5.05	AR	AS		AS
MS24586-32	MS24586-532		MS24586-C32			2.000	83.0				2.75	4.68	AR	AS		AS
MS24586-33	MS24586-533		MS24586-C33			2.125	88.5				2.92	4.42	AR	AS		AS
MS24586-34	MS24586-534		MS24586-C34			2.250	94.5				3.10	4.12	AR	AS		AS
MS24586-35	MS24586-535		MS24586-C35			2.375	100.0				3.28	3.89	AR	AS		AS
MS24586-36	MS24586-536		MS24586-C36			2.500	106.5				3.45	3.67	AR	AS		AS
MS24586-37	MS24586-537	MS24586-1037	MS24586-C37			1.000	23.0				1.97	3.08	AO	AP	AO	AP
MS24586-38	MS24586-538	MS24586-1038	MS24586-C38			1.125	28.0				2.31	2.53	AO	AP	AO	AP
MS24586-39	MS24586-539	MS24586-1039	MS24586-C39			1.250	32.5				2.64	2.18	AO	AP	AO	AP
MS24586-40	MS24586-540	MS24586-1040	MS24586-C40			1.375	37.5				2.96	1.89	AO	AP	AO	AP
MS24586-41	MS24586-541	MS24586-1041	MS24586-C41	.240	.026	1.500	42.0	.0424	3.3	.3	3.28	1.69	AO	AP	AO	AP
MS24586-42	MS24586-542	MS24586-1042	MS24586-C42			1.625	47.0				3.62	1.51	AO	AP	AO	AP
MS24586-43	MS24586-543	MS24586-1043	MS24586-C43			1.750	52.0				3.95	1.36	AP	AR	AP	AR
MS24586-44	MS24586-544	MS24586-1044	MS24586-C44			1.875	56.5				4.27	1.25	AP	AR	AP	AR
MS24586-45	MS24586-545	MS24586-1045	MS24586-C45			2.000	61.5				4.60	1.15	AP	AR	AP	AR
MS24586-46	MS24586-546	MS24586-1046	MS24586-C46			1.000	20.0				1.64	7.54	AO	AP	AO	AP
MS24586-47	MS24586-547	MS24586-1047	MS24586-C47			1.125	24.0				1.89	6.52	AO	AP	AO	AP
MS24586-48	MS24586-548	MS24586-1048	MS24586-C48			1.250	28.0				2.14	5.39	AO	AP	AO	AP
MS24586-49	MS24586-549	MS24586-1049	MS24586-C49			1.375	31.0				2.36	4.87	AO	AP	AO	AP
MS24586-50	MS24586-550	MS24586-1050	MS24586-C50			1.500	36.0				2.64	4.20	AO	AP	AO	AP
MS24586-51	MS24586-551	MS24586-1051	MS24586-C51	.240	.031	1.625	40.0	.0318	5.3	.5	2.89	3.77	AO	AP	AO	AP
MS24586-52	MS24586-552	MS24586-1052	MS24586-C52			1.750	44.0				3.15	3.43	AO	AP	AO	AP
MS24586-53	MS24586-553	MS24586-1053	MS24586-C53			1.875	47.0				3.37	3.21	AP	AR	AP	AR
MS24586-54	MS24586-554	MS24586-1054	MS24586-C54			2.000	52.0				3.65	2.90	AP	AR	AP	AR
MS24586-55	MS24586-555	MS24586-1055	MS24586-C55			2.125	56.0				3.91	2.70	AP	AR	AP	AR
MS24586-56	MS24586-556	MS24586-1056	MS24586-C56			2.250	60.0				4.16	2.52	AP	AR	AP	AR
MS24586-57	MS24586-557	MS24586-1057	MS24586-C57			2.375	64.0				4.41	2.36	AP	AR	AP	AR
MS24586-58	MS24586-558	MS24586-1058	MS24586-C58			2.500	68.0				4.66	2.22	AP	AR	AP	AR

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MUSIC WIRE			STAINLESS STEEL	OD	W	FREE LENGTH	ACTIVE COILS	DEFLECTION PER COIL	MAX LOAD	INIT TENSION	MAX EXT	RATE	PRICE GROUP			
UNPLATED (U)	CAD. PLATE (C)	ZINC PLATE (Z)	PASSIVATED (S)	IN	IN	IN		IN	LB	LB	IN	LB/IN	U	C	Z	S
MS24586-59	MS24586-559		MS24586-C59			1.000	17.0				1.40	19.80	AO	AP		AP
MS24586-60	MS24586-560		MS24586-C60			1.125	20.5				1.61	16.42	AO	AP		AP
MS24586-61	MS24586-561		MS24586-C61			1.250	24.0				1.81	14.01	AO	AP		AP
MS24586-62	MS24586-562		MS24586-C62			1.375	27.0				2.01	12.46	AO	AP		AP
MS24586-63	MS24586-563		MS24586-C63			1.500	30.5				2.20	11.20	AO	AP		AP
MS24586-64	MS24586-564		MS24586-C64			1.625	34.0				2.42	9.89	AP	AR		AR
MS24586-65	MS24586-565		MS24586-C65	.240	.037	1.750	37.5	.0235	8.7	.8	2.63	8.97	AP	AR		AR
MS24586-66	MS24586-566		MS24586-C66			1.875	40.5				2.83	8.31	AP	AR		AR
MS24586-67	MS24586-567		MS24586-C67			2.000	44.0				3.04	7.64	AP	AR		AR
MS24586-68	MS24586-568		MS24586-C68			2.125	47.5				3.24	7.08	AP	AR		AR
MS24586-69	MS24586-569		MS24586-C69			2.250	51.0				3.45	6.59	AP	AR		AR
MS24586-70	MS24586-570		MS24586-C70			2.375	54.5				3.59	6.16	AP	AR		AR
MS24586-71	MS24586-571		MS24586-C71			2.500	57.5				3.85	5.85	AR	AS		AS
MS24586-72	MS24586-572		MS24586-C72			2.750	64.5				4.27	5.21	AR	AS		AS
MS24586-73	MS24586-573		MS24586-C73			3.000	71.0				4.67	4.74	AR	AS		AS
MS24586-74	MS24586-574	MS24586-1074	MS24586-C74			1.000	15.5				1.30	34.55	AP	AR	AP	AR
MS24586-75	MS24586-575	MS24586-1075	MS24586-C75			1.125	18.5				1.48	28.97	AP	AR	AP	AR
MS24586-76	MS24586-576	MS24586-1076	MS24586-C76			1.250	21.5				1.67	24.94	AP	AR	AP	AR
MS24586-77	MS24586-577	MS24586-1077	MS24586-C77			1.375	25.0				1.86	21.44	AP	AR	AP	AR
MS24586-78	MS24586-578	MS24586-1078	MS24586-C78			1.500	28.0				2.04	19.15	AP	AR	AP	AR
MS24586-79	MS24586-579	MS24586-1079	MS24586-C79			1.625	31.0				2.23	17.30	AP	AR	AP	AR
MS24586-80	MS24586-580	MS24586-1080	MS24586-C80			1.750	34.0				2.41	15.76	AR	AS	AR	AS
MS24586-81	MS24586-581	MS24586-1081	MS24586-C81			1.875	37.0				2.59	14.48	AR	AS	AR	AS
MS24586-82	MS24586-582	MS24586-1082	MS24586-C82	.240	.041	2.000	40.0	.0194	11.4	1.0	2.78	13.40	AR	AS	AR	AS
MS24586-83	MS24586-583	MS24586-1083	MS24586-C83			2.125	43.0				2.96	12.47	AR	AS	AR	AS
MS24586-84	MS24586-584	MS24586-1084	MS24586-C84			2.250	46.0				3.14	11.66	AR	AS	AR	AS
MS24586-85	MS24586-585	MS24586-1085	MS24586-C85			2.375	49.0				3.33	10.94	AR	AS	AR	AS
MS24586-86	MS24586-586	MS24586-1086	MS24586-C86			2.500	52.0				3.51	10.31	AR	AS	AR	AS
MS24586-87	MS24586-587	MS24586-1087	MS24586-C87			2.750	58.5				3.88	9.16	AR	AS	AR	AS
MS24586-88	MS24586-588	MS24586-1088	MS24586-C88			3.000	64.5				4.25	8.31	AR	AS	AR	AS
MS24586-89	MS24586-589	MS24586-1089	MS24586-C89			3.250	70.5				4.62	7.60	AR	AS	AR	AS
MS24586-90	MS24586-590	MS24586-1090	MS24586-C90			3.500	76.5				4.98	7.01	AR	AS	AR	AS
MS24586-91	MS24586-591	MS24586-1091	MS24586-C91			1.000	12.0				2.02	3.24	AO	AP	AO	AP
MS24586-92	MS24586-592	MS24586-1092	MS24586-C92			1.125	16.0				2.48	2.43	AO	AP	AO	AP
MS24586-93	MS24586-593	MS24586-1093	MS24586-C93	.360	.031	1.250	20.0	.0850	3.6	.3	2.95	1.94	AO	AP	AO	AP
MS24586-94	MS24586-594	MS24586-1094	MS24586-C94			1.375	24.0				3.41	1.62	AO	AP	AO	AP
MS24586-95	MS24586-595	MS24586-1095	MS24586-C95			1.500	28.0				3.81	1.43	AO	AP	AO	AP
MS24586-96	MS24586-596		MS24586-C96			1.000	10.5				1.68	7.92	AO	AP		AP
MS24586-97	MS24586-597		MS24586-C97			1.125	14.0				2.04	5.93	AO	AP		AP
MS24586-98	MS24586-598		MS24586-C98			1.250	17.5				2.39	4.75	AO	AP		AP
MS24586-99	MS24586-599		MS24586-C99			1.375	20.5				2.71	4.05	AO	AP		AP
MS24586-100	MS24586-600		MS24586-C100			1.500	24.0				3.06	3.46	AO	AP		AP
MS24586-101	MS24586-601		MS24586-C101			1.625	27.5				3.41	3.02	AO	AP		AP
MS24586-102	MS24586-602		MS24586-C102	.360	.037	1.750	31.0	.0650	5.9	.5	3.77	2.67	AO	AP		AP
MS24586-103	MS24586-603		MS24586-C103			1.875	34.0				4.09	2.44	AP	AR		AR
MS24586-104	MS24586-604		MS24586-C104			2.000	37.5				4.44	2.22	AP	AR		AR
MS24586-105	MS24586-605		MS24586-C105			2.125	41.0				4.79	2.03	AP	AS		AS
MS24586-106	MS24586-606		MS24586-C106			2.250	44.5				5.14	1.87	AP	AS		AS
MS24586-107	MS24586-607		MS24586-C107			2.375	47.5				5.46	1.75	AP	AS		AS
MS24586-108	MS24586-608		MS24586-C108			2.500	51.0				5.81	1.63	AP	AS		AS

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MUSIC WIRE			STAINLESS STEEL	OD	W	FREE LENGTH	ACTIVE COILS	DEFLECTION PER COIL	MAX LOAD	INIT TENSION	MAX EXT	RATE	PRICE GROUP			
UNPLATED (U)	CAD. PLATE (C)	ZINC PLATE (Z)	PASSIVATED (S)	IN	IN	IN		IN	LB	LB	IN	LB/IN	U	C	Z	S
MS24586-109	MS24586-609	MS24586-1109	MS24586-C109			1.000	10.0				1.55	12.97	AO	AP	AO	AP
MS24586-110	MS24586-610	MS24586-1110	MS24586-C110			1.125	13.0				1.85	9.99	AO	AP	AO	AP
MS24586-111	MS24586-611	MS24586-1111	MS24586-C111			1.250	16.0				2.14	8.11	AO	AP	AO	AP
MS24586-112	MS24586-612	MS24586-1112	MS24586-C112			1.375	19.0				2.43	6.83	AO	AP	AO	AP
MS24586-113	MS24586-613	MS24586-1113	MS24586-C113			1.500	22.0				2.72	5.90	AO	AP	AO	AP
MS24586-114	MS24586-614	MS24586-1114	MS24586-C114			1.625	25.0				3.01	5.19	AO	AP	AO	AP
MS24586-115	MS24586-615	MS24586-1115	MS24586-C115	.360	.041	1.750	28.0	.0555	7.9	.7	3.30	4.63	AO	AP	AO	AP
MS24586-116	MS24586-616	MS24586-1116	MS24586-C116			1.875	31.0				3.60	4.19	AP	AS	AP	AS
MS24586-117	MS24586-617	MS24586-1117	MS24586-C117			2.000	34.0				3.89	3.82	AP	AS	AP	AS
MS24586-118	MS24586-618	MS24586-1118	MS24586-C118			2.125	37.0				4.18	3.51	AP	AS	AP	AS
MS24586-119	MS24586-619	MS24586-1119	MS24586-C119			2.250	40.5				4.50	3.20	AP	AS	AP	AS
MS24586-120	MS24586-620	MS24586-1120	MS24586-C120			2.375	43.5				4.79	2.98	AR	AS	AR	AS
MS24586-121	MS24586-621	MS24586-1121	MS24586-C121			2.500	46.5				5.08	2.79	AR	AS	AR	AS
MS24586-122	MS24586-622	MS24586-1122	MS24586-C122			1.000	9.0				1.43	21.88	AO	AP	AO	AP
MS24586-123	MS24586-623	MS24586-1123	MS24586-C123			1.125	12.0				1.69	16.43	AO	AP	AO	AP
MS24586-124	MS24586-624	MS24586-1124	MS24586-C124			1.250	14.5				1.93	13.60	AO	AP	AO	AP
MS24586-125	MS24586-625	MS24586-1125	MS24586-C125			1.375	17.5				2.20	11.26	AO	AP	AO	AP
MS24586-126	MS24586-626	MS24586-1126	MS24586-C126			1.500	20.5				2.47	9.61	AO	AP	AO	AP
MS24586-127	MS24586-627	MS24586-1127	MS24586-C127			1.625	23.0				2.71	8.56	AO	AP	AO	AP
MS24586-128	MS24586-628	MS24586-1128	MS24586-C128			1.750	26.0				2.98	7.58	AO	AP	AO	AP
MS24586-129	MS24586-629	MS24586-1129	MS24586-C129	.360	.045	1.875	28.5	.0472	10.2	.9	3.22	6.91	AO	AR	AO	AR
MS24586-130	MS24586-630	MS24586-1130	MS24586-C130			2.000	31.5				3.49	6.25	AO	AR	AO	AR
MS24586-131	MS24586-631	MS24586-1131	MS24586-C131			2.125	34.0				3.77	5.79	AP	AS	AP	AS
MS24586-132	MS24586-632	MS24586-1132	MS24586-C132			2.250	37.0				4.00	5.33	AP	AS	AP	AS
MS24586-133	MS24586-633	MS24586-1133	MS24586-C133			2.375	40.0				4.26	4.92	AR	AS	AR	AS
MS24586-134	MS24586-634	MS24586-1134	MS24586-C134			2.500	42.5				4.51	4.64	AR	AS	AR	AS
MS24586-135	MS24586-635	MS24586-1135	MS24586-C135			2.750	48.0				5.02	4.10	AR	AS	AR	AS
MS24586-136	MS24586-636	MS24586-1136	MS24586-C136			3.000	53.5				5.53	3.68	AR	AS	AR	AS
MS24586-137	MS24586-637		MS24586-C137			1.125	10.5				1.49	45.98	AP	AS		AS
MS24586-138	MS24586-638		MS24586-C138			1.250	12.5				1.66	38.65	AP	AS		AS
MS24586-139	MS24586-639		MS24586-C139			1.375	15.0				1.87	32.19	AP	AS		AS
MS24586-140	MS24586-640		MS24586-C140			1.500	17.0				2.06	28.42	AP	AS		AS
MS24586-141	MS24586-641		MS24586-C141			1.625	19.5				2.27	24.81	AP	AS		AS
MS24586-142	MS24586-642		MS24586-C142			1.750	21.5				2.46	22.47	AP	AS		AS
MS24586-143	MS24586-643		MS24586-C143			1.875	24.0				2.67	20.15	AR	AS		AS
MS24586-144	MS24586-644		MS24586-C144			2.000	26.5				2.87	18.24	AR	AS		AS
MS24586-145	MS24586-645		MS24586-C145			2.125	28.5				3.07	16.97	AS	AT		AT
MS24586-146	MS24586-646		MS24586-C146	.360	.055	2.250	31.0	.0331	17.6	1.6	3.28	15.59	AS	AT		AT
MS24586-147	MS24586-647		MS24586-C147			2.375	33.0				3.47	14.65	AS	AT		AT
MS24586-148	MS24586-648		MS24586-C148			2.500	35.5				3.68	13.62	AS	AT		AT
MS24586-149	MS24586-649		MS24586-C149			2.750	40.0				4.07	12.08	AS	AT		AT
MS24586-150	MS24586-650		MS24586-C150			3.000	44.5				4.47	10.86	AS	AU		AU
MS24586-151	MS24586-651		MS24586-C151			3.250	49.0				4.87	9.86	AS	AW		AW
MS24586-152	MS24586-652		MS24586-C152			3.500	53.5				5.27	9.03	AS	AW		AW
MS24586-153	MS24586-653		MS24586-C153			3.750	58.0				5.67	8.33	AS	AW		AW
MS24586-154	MS24586-654		MS24586-C154			4.000	62.5				6.10	7.73	AS	AW		AW
MS24586-155	MS24586-655		MS24586-C155			4.250	67.0				6.47	7.21	AT	AX		AX
MS24586-156	MS24586-656		MS24586-C156			4.500	71.5				6.81	6.76	AT	AX		AX
MS24586-157	MS24586-657	MS24586-1157	MS24586-C157			1.250	10.0				2.65	2.85	AP	AS	AP	AS
MS24586-158	MS24586-658	MS24586-1158	MS24586-C158			1.375	13.0				3.20	2.19	AP	AS	AP	AS
MS24586-159	MS24586-659	MS24586-1159	MS24586-C159	.500	.037	1.500	16.5	.1402	4.4	.4	3.81	1.73	AP	AS	AP	AS
MS24586-160	MS24586-660	MS24586-1160	MS24586-C160			1.625	20.0				4.43	1.43	AR	AS	AR	AS
MS24586-161	MS24586-661	MS24586-1161	MS24586-C161			1.750	23.0				4.98	1.24	AR	AS	AR	AS

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UNPLATED (U)	CAD. PLATE (C)	ZINC PLATE (Z)	PASSIVATED (S)	IN	IN	IN		IN	LB	LB	IN	LB/IN	U	C	Z	S
MS24586-162	MS24586-662		MS24586-C162			1.250	9.0				2.34	4.87	AP	AS		AS
MS24586-163	MS24586-663		MS24586-C163			1.375	12.0				2.83	3.66	AP	AS		AS
MS24586-164	MS24586-664		MS24586-C164			1.500	15.0				3.32	2.92	AP	AS		AS
MS24586-165	MS24586-665		MS24586-C165			1.625	18.0				3.80	2.43	AR	AS		AS
MS24586-166	MS24586-666		MS24586-C166	.500	.041	1.750	21.0	.1210	5.8	.5	4.29	2.09	AR	AS		AS
MS24586-167	MS24586-667		MS24586-C167			1.875	24.5				4.84	1.79	AR	AT		AT
MS24586-168	MS24586-668		MS24586-C168			2.000	27.5				5.33	1.59	AR	AT		AT
MS24586-169	MS24586-669		MS24586-C169			2.125	30.5				5.82	1.44	AS	AT		AT
MS24586-170	MS24586-670		MS24586-C170			2.250	33.5				6.30	1.31	AS	AT		AT
MS24586-171	MS24586-671	MS24586-1171	MS24586-C171			1.375	11.5				2.58	5.66	AP	AS	AP	AS
MS24586-172	MS24586-672	MS24586-1172	MS24586-C172			1.500	14.0				2.94	4.65	AP	AS	AP	AS
MS24586-173	MS24586-673	MS24586-1173	MS24586-C173			1.625	17.0				3.40	3.83	AR	AS	AR	AS
MS24586-174	MS24586-674	MS24586-1174	MS24586-C174	.500	.045	1.750	19.5	.1045	7.5	.7	3.79	3.34	AR	AS	AR	AS
MS24586-175	MS24586-675	MS24586-1175	MS24586-C175			1.875	22.5				4.23	2.89	AR	AT	AR	AT
MS24586-176	MS24586-676	MS24586-1176	MS24586-C176			2.000	25.0				4.61	2.60	AR	AT	AR	AT
MS24586-177	MS24586-677	MS24586-1177	MS24586-C177			2.125	28.0				5.05	2.32	AS	AT	AS	AT
MS24586-178	MS24586-678	MS24586-1178	MS24586-C178			2.250	31.0				5.49	2.10	AS	AT	AS	AT
MS24586-179	MS24586-679		MS24586-C179			1.375	10.0				2.14	15.64	AR	AS		AS
MS24586-180	MS24586-680		MS24586-C180			1.500	12.0				2.41	13.03	AR	AS		AS
MS24586-181	MS24586-681		MS24586-C181			1.625	14.5				2.73	10.79	AR	AS		AS
MS24586-182	MS24586-682		MS24586-C182			1.750	16.5				3.01	9.00	AR	AS		AS
MS24586-183	MS24586-683		MS24586-C183			1.875	19.0				3.32	8.23	AR	AS		AS
MS24586-184	MS24586-684		MS24586-C184			2.000	21.0				3.60	7.45	AR	AS		AS
MS24586-185	MS24586-685		MS24586-C185			2.125	23.5				3.91	6.66	AR	AT		AT
MS24586-186	MS24586-686		MS24586-C186			2.250	25.5				4.29	6.13	AR	AT		AT
MS24586-187	MS24586-687		MS24586-C187	.500	.055	2.375	28.0	.0761	13.1	1.2	4.51	5.58	AR	AT		AT
MS24586-188	MS24586-688		MS24586-C188			2.500	30.5				4.82	5.13	AR	AT		AT
MS24586-189	MS24586-689		MS24586-C189			2.750	35.0				5.41	4.47	AS	AW		AW
MS24586-190	MS24586-690		MS24586-C190			3.000	39.5				6.01	3.96	AT	AW		AW
MS24586-191	MS24586-691		MS24586-C191			3.250	43.0				6.52	3.64	AT	AX		AX
MS24586-192	MS24586-692		MS24586-C192			3.500	48.5				7.19	3.22	AT	AY		AY
MS24586-193	MS24586-693		MS24586-C193			3.750	54.0				7.86	2.90	AU	AY		AY
MS24586-194	MS24586-694		MS24586-C194			4.000	57.5				8.38	2.72	AU	AY		AY
MS24586-195	MS24586-695		MS24586-C195			4.250	62.0				8.97	2.52	AU	AZ		AZ
MS24586-196	MS24586-696		MS24586-C196			4.500	66.5				9.56	2.35	AU	AZ		AZ
MS24586-197	MS24586-697	MS24586-1197	MS24586-C197			1.375	9.0				1.92	31.26	AR	AS	AR	AS
MS24586-198	MS24586-698	MS24586-1198	MS24586-C198			1.500	11.0				2.17	25.56	AR	AS	AR	AS
MS24586-199	MS24586-699	MS24586-1199	MS24586-C199			1.625	13.0				2.42	21.65	AR	AS	AR	AS
MS24586-200	MS24586-700	MS24586-1200	MS24586-C200			1.750	15.0				2.66	18.75	AR	AS	AR	AS
MS24586-201	MS24586-701	MS24586-1201	MS24586-C201			1.875	17.0				2.91	16.54	AR	AS	AR	AS
MS24586-202	MS24586-702	MS24586-1202	MS24586-C202			2.000	19.0				3.16	14.81	AR	AS	AR	AS
MS24586-203	MS24586-703	MS24586-1203	MS24586-C203			2.125	21.0				3.40	13.39	AR	AS	AR	AS
MS24586-204	MS24586-704	MS24586-1204	MS24586-C204			2.250	23.0				3.65	12.23	AR	AU	AR	AU
MS24586-205	MS24586-705	MS24586-1205	MS24586-C205			2.375	25.0				3.90	11.25	AR	AU	AR	AU
MS24586-206	MS24586-706	MS24586-1206	MS24586-C206	.500	.063	2.500	27.0	.0608	18.8	1.7	4.12	10.41	AR	AU	AR	AU
MS24586-207	MS24586-707	MS24586-1207	MS24586-C207			2.750	30.5				4.60	9.22	AS	AW	AS	AW
MS24586-208	MS24586-708	MS24586-1208	MS24586-C208			3.000	34.5				5.10	8.15	AT	AW	AT	AW
MS24586-209	MS24586-709	MS24586-1209	MS24586-C209			3.250	38.5				5.59	7.30	AT	AW	AT	AW
MS24586-210	MS24586-710	MS24586-1210	MS24586-C210			3.500	42.5				6.08	6.62	AT	AW	AT	AW
MS24586-211	MS24586-711	MS24586-1211	MS24586-C211			3.750	46.5				6.58	6.05	AU	AX	AU	AX
MS24586-212	MS24586-712	MS24586-1212	MS24586-C212			4.000	50.5				7.07	5.57	AU	AX	AU	AX
MS24586-213	MS24586-713	MS24586-1213	MS24586-C213			4.250	54.5				7.56	5.16	AU	AZ	AU	AZ
MS24586-214	MS24586-714	MS24586-1214	MS24586-C214			4.500	58.5				8.06	4.81	AU	AZ	AU	AZ
MS24586-215	MS24586-715	MS24586-1215	MS24586-C215			4.750	62.5				8.55	4.50	AW	AZA	AW	AZA
MS24586-216	MS24586-716	MS24586-1216	MS24586-C216			5.000	66.5				9.04	4.23	AW	AZA	AW	AZA

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CALCULATIONS: Spring Rate, Maximum Load and Initial Tension are for Music Wire. For Stainless Steel, multiply figures shown by 5/6 (.833)
COMPLIANCE: All Stainless Steel MS24586 parts are DFARS Compliant; CADPlated MS24586 parts are NOT RoHS compliant.

MUSIC WIRE			STAINLESS STEEL	OD	W	FREE LENGTH	ACTIVE COILS	DEFLECTION PER COIL	MAX LOAD	INIT TENSION	MAX EXT	RATE	PRICE GROUP			
UNPLATED (U)	CAD. PLATE (C)	ZINC PLATE (Z)	PASSIVATED (S)	IN	IN	IN		IN	LB	LB	IN	LB/IN	U	C	Z	S
MS24586-217	MS24586-717		MS24586-C217			2.000	15.5				4.20	4.18	AR	AT		AT
MS24586-218	MS24586-718		MS24586-C218			2.125	18.0				4.68	3.60	AR	AT		AT
MS24586-219	MS24586-719		MS24586-C219			2.250	20.0				5.13	3.24	AR	AT		AT
MS24586-220	MS24586-720		MS24586-C220			2.375	22.5				5.57	2.88	AS	AW		AW
MS24586-221	MS24586-721		MS24586-C221	.650	.055	2.500	24.5	.1420	10.1	.9	5.98	2.64	AS	AW		AW
MS24586-222	MS24586-722		MS24586-C222			2.750	29.5				6.94	2.20	AS	AW		AW
MS24586-223	MS24586-723		MS24586-C223			3.000	34.0				7.83	1.90	AT	AX		AX
MS24586-224	MS24586-724		MS24586-C224			3.250	38.5				8.72	1.68	AU	AY		AY
MS24586-225	MS24586-725		MS24586-C225			3.500	43.0				9.61	1.51	AU	AY		AY
MS24586-226	MS24586-726		MS24586-C226			3.750	47.5				10.50	1.36	AU	AZ		AZ
MS24586-227	MS24586-727		MS24586-C227			4.000	52.0				11.38	1.25	AU	AZ		AZ
MS24586-228	MS24586-728	MS24586-1228	MS24586-C228			2.000	14.0				3.61	8.32	AS	AU	AS	AU
MS24586-229	MS24586-729	MS24586-1229	MS24586-C229			2.125	16.0				3.97	7.28	AS	AW	AS	AW
MS24586-230	MS24586-730	MS24586-1230	MS24586-C230			2.250	18.0				4.32	6.47	AS	AW	AS	AW
MS24586-231	MS24586-731	MS24586-1231	MS24586-C231			2.375	20.0				4.68	5.83	AS	AW	AS	AW
MS24586-232	MS24586-732	MS24586-1232	MS24586-C232			2.500	22.0				5.03	5.30	AS	AW	AS	AW
MS24586-233	MS24586-733	MS24586-1233	MS24586-C233			2.750	26.0				5.74	4.48	AS	AX	AS	AX
MS24586-234	MS24586-734	MS24586-1234	MS24586-C234	.650	.063	3.000	30.0	.1150	14.8	1.4	6.45	3.88	AT	AY	AT	AY
MS24586-235	MS24586-735	MS24586-1235	MS24586-C235			3.250	34.0				7.16	3.43	AU	AZ	AU	AZ
MS24586-236	MS24586-736	MS24586-1236	MS24586-C236			3.500	38.0				7.87	3.07	AU	AZ	AU	AZ
MS24586-237	MS24586-737	MS24586-1237	MS24586-C237			3.750	42.0				8.58	2.77	AU	AZA	AU	AZA
MS24586-238	MS24586-738	MS24586-1238	MS24586-C238			4.000	46.0				9.29	2.53	AU	AZA	AU	AZA
MS24586-239	MS24586-739	MS24586-1239	MS24586-C239			4.250	50.0				10.00	2.33	AW	AZA	AW	AZA
MS24586-240	MS24586-740	MS24586-1240	MS24586-C240			4.500	54.0				10.71	2.16	AW	AZA	AW	AZA
MS24586-241	MS24586-741		MS24586-C241			2.000	12.0				4.36	3.38	AS	AW		AS
MS24586-242	MS24586-742		MS24586-C242			2.125	14.5				4.98	2.80	AT	AX		AT
MS24586-243	MS24586-743		MS24586-C243			2.250	16.5				5.00	2.46	AT	AX		AT
MS24586-244	MS24586-744		MS24586-C244			2.375	19.0				6.19	2.14	AT	AY		AY
MS24586-245	MS24586-745		MS24586-C245	.750	.055	2.500	21.0	.1970	8.8	.8	6.64	1.93	AT	AY		AY
MS24586-246	MS24586-746		MS24586-C246			2.750	25.5				7.77	1.59	AU	AZ		AZ
MS24586-247	MS24586-747		MS24586-C247			3.000	30.0				8.91	1.35	AU	AZ		AZ
MS24586-248	MS24586-748		MS24586-C248			3.250	35.0				10.15	1.16	AW	AZA		AZA
MS24586-249	MS24586-749		MS24586-C249			3.500	39.5				11.28	1.03	AW	AZA		AZA
MS24586-250	MS24586-750	MS24586-1250	MS24586-C250			2.000	11.0				3.77	6.55	AS	AW	AS	AW
MS24586-251	MS24586-751	MS24586-1251	MS24586-C251			2.125	13.0				4.22	5.54	AS	AX	AS	AX
MS24586-252	MS24586-752	MS24586-1252	MS24586-C252			2.250	15.0				4.67	4.80	AS	AX	AS	AX
MS24586-253	MS24586-753	MS24586-1253	MS24586-C253			2.375	17.0				5.11	4.24	AS	AY	AS	AY
MS24586-254	MS24586-754	MS24586-1254	MS24586-C254			2.500	19.0				5.56	3.79	AS	AY	AS	AY
MS24586-255	MS24586-755	MS24586-1255	MS24586-C255			2.750	22.0				6.29	3.27	AT	AY	AT	AY
MS24586-256	MS24586-756	MS24586-1256	MS24586-C256			3.000	27.0				7.35	2.67	AT	AZ	AT	AZ
MS24586-257	MS24586-757	MS24586-1257	MS24586-C257	.750	.063	3.250	30.5	.1610	12.8	1.2	8.16	2.36	AU	AZA	AU	AZA
MS24586-258	MS24586-758	MS24586-1258	MS24586-C258			3.500	34.5				9.05	2.09	AU	AZA	AU	AZA
MS24586-259	MS24586-759	MS24586-1259	MS24586-C259			3.750	38.5				9.95	1.87	AW	AZA	AW	AZA
MS24586-260	MS24586-760	MS24586-1260	MS24586-C260			4.000	42.5				10.84	1.70	AW	AZB	AW	AZB
MS24586-261	MS24586-761	MS24586-1261	MS24586-C261			4.250	46.5				11.74	1.55	AX	AZC	AX	AZC
MS24586-262	MS24586-762	MS24586-1262	MS24586-C262			4.500	50.5				12.63	1.43	AX	AZD	AX	AZD
MS24586-263	MS24586-763	MS24586-1263	MS24586-C263			4.750	54.5				13.53	1.32	AY	AZE	AY	AZE
MS24586-264	MS24586-764	MS24586-1264	MS24586-C264			5.000	58.5				14.42	1.23	AY	AZE	AY	AZE

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COMPLIANCE: All Stainless Steel MS24586 parts are DFARS Compliant; CADPlated MS24586 parts are NOT RoHS compliant.

MUSIC WIRE			STAINLESS STEEL	OD	W	FREE LENGTH	ACTIVE COILS	DEFLECTION PER COIL	MAX LOAD	INIT TENSION	MAX EXT	RATE	PRICE GROUP			
UNPLATED (U)	CAD. PLATE (C)	ZINC PLATE (Z)	PASSIVATED (S)	IN	IN	IN		IN	LB	LB	IN	LB/IN	U	C	Z	S
MS24586-265	MS24586-765	MS24586-1265	MS24586-C265			2.000	9.5				3.16	16.25	AS	AW	AS	AW
MS24586-266	MS24586-766	MS24586-1266	MS24586-C266			2.125	11.5				3.63	13.42	AS	AW	AS	AW
MS24586-267	MS24586-767	MS24586-1267	MS24586-C267			2.250	13.0				3.83	11.88	AS	AY	AS	AY
MS24586-268	MS24586-768	MS24586-1268	MS24586-C268			2.375	14.5				4.14	10.65	AT	AY	AT	AY
MS24586-269	MS24586-769	MS24586-1269	MS24586-C269			2.500	16.5				4.51	9.35	AT	AY	AT	AY
MS24586-270	MS24586-770	MS24586-1270	MS24586-C270			2.750	19.5				5.13	7.92	AT	AZ	AT	AZ
MS24586-271	MS24586-771	MS24586-1271	MS24586-C271	.750	.075	3.000	23.0	.1218	20.7	1.9	5.80	6.71	AT	AZA	AT	AZA
MS24586-272	MS24586-772	MS24586-1272	MS24586-C272			3.250	26.5				6.48	5.82	AT	AZB	AT	AZB
MS24586-273	MS24586-773	MS24586-1273	MS24586-C273			3.500	29.5				7.09	5.23	AW	AZB	AW	AZB
MS24586-274	MS24586-774	MS24586-1274	MS24586-C274			3.750	33.0				7.77	4.68	AW	AZC	AW	AZC
MS24586-275	MS24586-775	MS24586-1275	MS24586-C275			4.000	36.5				8.45	4.23	AX	AZD	AX	AZD
MS24586-276	MS24586-776	MS24586-1276	MS24586-C276			4.250	39.5				9.06	3.91	AX	AZE	AX	AZE
MS24586-277	MS24586-777	MS24586-1277	MS24586-C277			4.500	43.0				9.74	3.59	AX	AZE	AX	AZE
MS24586-278	MS24586-778	MS24586-1278	MS24586-C278			4.750	46.5				10.41	3.32	AY	AZE	AY	AZE
MS24586-279	MS24586-779	MS24586-1279	MS24586-C279			5.000	49.5				11.03	3.12	AY	AZE	AY	AZE
MS24586-280	MS24586-780		MS24586-C280			2.000	8.5				4.22	3.20	AX	AZC		AZC
MS24586-281	MS24586-781		MS24586-C281			2.125	10.5				4.87	2.59	AX	AZC		AZC
MS24586-282	MS24586-782		MS24586-C282	.850	.055	2.250	13.0	.2613	7.8	.7	5.65	2.09	AX	AZC		AZC
MS24586-283	MS24586-783		MS24586-C283			2.375	15.0				6.29	1.81	AX	AZC		AZC
MS24586-284	MS24586-784		MS24586-C284			2.500	17.5				7.07	1.55	AX	AZC		AZC
MS24586-285	MS24586-785		MS24586-C285			2.750	22.0				8.50	1.24	AX	AZC		AZC
MS24586-286	MS24586-786		MS24586-C286			2.125	9.5				4.30	4.74	AX	AZD		AZD
MS24586-287	MS24586-787		MS24586-C287			2.250	11.5				4.88	3.92	AX	AZD		AZD
MS24586-288	MS24586-788		MS24586-C288			2.375	13.5				5.46	3.34	AX	AZD		AZD
MS24586-289	MS24586-789		MS24586-C289	.850	.063	2.500	15.5	.2286	11.3	1.0	6.04	2.91	AX	AZD		AZD
MS24586-290	MS24586-790		MS24586-C290			2.750	19.5				7.21	2.31	AX	AZD		AZD
MS24586-291	MS24586-791		MS24586-C291			3.000	23.5				8.37	1.92	AY	AZE		AZE
MS24586-292	MS24586-792		MS24586-C292			3.250	27.5				9.54	1.64	AY	AZE		AZE
MS24586-293	MS24586-793		MS24586-C293			3.500	31.5				10.70	1.43	AY	AZE		AZE
MS24586-294	MS24586-794		MS24586-C294			2.250	10.5				3.97	9.70	AY	AZE		AZE
MS24586-295	MS24586-795		MS24586-C295			2.375	12.0				5.34	8.49	AY	AZE		AZE
MS24586-296	MS24586-796		MS24586-C296			2.500	13.5				4.71	7.54	AY	AZE		AZE
MS24586-297	MS24586-797		MS24586-C297			2.750	17.0				5.54	5.99	AY	AZE		AZE
MS24586-298	MS24586-798		MS24586-C298			3.000	20.5				6.36	4.97	AY	AZE		AZE
MS24586-299	MS24586-799		MS24586-C299			3.250	23.5				7.10	4.33	AY	AZE		AZE
MS24586-300	MS24586-800		MS24586-C300	.850	.075	3.500	27.0	.1640	18.4	1.7	7.93	3.77	AY	AZE		AZE
MS24586-301	MS24586-801		MS24586-C301			3.750	30.5				8.75	3.34	AY	AZE		AZE
MS24586-302	MS24586-802		MS24586-C302			4.000	33.0				9.49	3.04	AY	AZE		AZE
MS24586-303	MS24586-803		MS24586-C303			4.250	37.0				10.32	2.75	AZ	AZF		AZF
MS24586-304	MS24586-804		MS24586-C304			4.500	40.5				11.14	2.51	AZ	AZF		AZF
MS24586-305	MS24586-805		MS24586-C305			4.750	43.5				11.88	2.34	AZ	AZF		AZF
MS24586-306	MS24586-806		MS24586-C306			5.000	47.0				12.71	2.17	AZ	AZF		AZF
MS24586-307	MS24586-807		MS24586-C307			2.250	9.5				3.52	19.15	AY	AZE		AZE
MS24586-308	MS24586-808		MS24586-C308			2.375	11.0				3.85	15.90	AY	AZE		AZE
MS24586-309	MS24586-809		MS24586-C309			2.500	12.5				4.18	13.99	AY	AZE		AZE
MS24586-310	MS24586-810		MS24586-C310			2.750	15.5				4.83	11.28	AY	AZE		AZE
MS24586-311	MS24586-811		MS24586-C311			3.000	18.5				5.49	9.45	AY	AZE		AZE
MS24586-312	MS24586-812		MS24586-C312			3.250	21.5				6.14	8.13	AZ	AZF		AZF
MS24586-313	MS24586-813		MS24586-C313	.850	.085	3.500	24.0	.1344	25.9	2.4	6.73	7.28	AZ	AZF		AZF
MS24586-314	MS24586-814		MS24586-C314			3.750	27.0				7.38	6.48	AZ	AZF		AZF
MS24586-315	MS24586-815		MS24586-C315			4.000	30.0				8.03	5.83	AZ	AZF		AZF
MS24586-316	MS24586-816		MS24586-C316			4.250	33.0				8.68	5.30	AZ	AZF		AZF
MS24586-317	MS24586-817		MS24586-C317			4.500	36.0				9.34	4.86	AZ	AZF		AZF
MS24586-318	MS24586-818		MS24586-C318			4.750	39.0				9.99	4.48	AZ	AZF		AZF
MS24586-319	MS24586-819		MS24586-C319			5.000	42.0				10.64	4.16	AZ	AZF		AZF
MS24586-320	MS24586-820	MS24586-1320	MS24586-C320			2.500	11.0				5.91	2.58	AY	AZE	AY	AZE
MS24586-321	MS24586-821	MS24586-1321	MS24586-C321	1.000	.063	2.750	15.0	.3100	9.7	.9	7.40	1.89	AY	AZE	AY	AZE
MS24586-322	MS24586-822	MS24586-1322	MS24586-C322			3.000	19.0				8.89	1.49	AY	AZE	AY	AZE
MS24586-323	MS24586-823	MS24586-1323	MS24586-C323			3.250	23.0				10.38	1.23	AY	AZE	AY	AZE

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MUSIC WIRE			STAINLESS STEEL	OD	W	FREE LENGTH	ACTIVE COILS	DEFLECTION PER COIL	MAX LOAD	INIT TENSION	MAX EXT	RATE	PRICE GROUP			
UNPLATED (U)	CAD. PLATE (C)	ZINC PLATE (Z)	PASSIVATED (S)	IN	IN	IN		IN	LB	LB	IN	LB/IN	U	C	Z	S
MS24586-324	MS24586-824	MS24586-1324	MS24586-C324			2.500	9.5				4.77	6.31	AZ	AZE	AZ	AZE
MS24586-325	MS24586-825	MS24586-1325	MS24586-C325			2.750	13.0				5.85	4.61	AZ	AZE	AZ	AZE
MS24586-326	MS24586-826	MS24586-1326	MS24586-C326			3.000	16.5				6.94	3.63	AZ	AZE	AZ	AZE
MS24586-327	MS24586-827	MS24586-1327	MS24586-C327			3.250	19.5				7.91	3.07	AZ	AZF	AZ	AZF
MS24586-328	MS24586-828	MS24586-1328	MS24586-C328			3.500	23.0				8.99	2.60	AZ	AZF	AZ	AZF
MS24586-329	MS24586-829	MS24586-1329	MS24586-C329	1.000	.075	3.750	26.5	.2387	15.7	1.4	10.07	2.26	AZ	AZF	AZ	AZF
MS24586-330	MS24586-830	MS24586-1330	MS24586-C330			4.000	29.5				11.04	2.03	AZ	AZF	AZ	AZF
MS24586-331	MS24586-831	MS24586-1331	MS24586-C331			4.250	33.0				12.13	1.82	AZ	AZG	AZ	AZG
MS24586-332	MS24586-832	MS24586-1332	MS24586-C332			4.500	36.5				13.21	1.64	AZ	AZG	AZ	AZG
MS24586-333	MS24586-833	MS24586-1333	MS24586-C333			4.750	39.5				14.18	1.52	AZ	AZG	AZ	AZG
MS24586-334	MS24586-834	MS24586-1334	MS24586-C334			5.000	43.0				15.26	1.39	AZ	AZG	AZ	AZG
MS24586-335	MS24586-835		MS24586-C335			2.750	12.0				5.12	8.53	AZ	AZF		AZF
MS24586-336	MS24586-836		MS24586-C336			3.000	15.0				5.96	6.82	AZ	AZF		AZF
MS24586-337	MS24586-837		MS24586-C337			3.250	18.0				6.80	5.69	AZ	AZF		AZF
MS24586-338	MS24586-838		MS24586-C338			3.500	20.5				7.55	4.99	AZ	AZF		AZF
MS24586-339	MS24586-839		MS24586-C339	1.000	.085	3.750	23.5	.1974	22.2	2.0	8.39	4.35	AZ	AZF		AZF
MS24586-340	MS24586-840		MS24586-C340			4.000	26.5				9.23	3.86	AZ	AZF		AZF
MS24586-341	MS24586-841		MS24586-C341			4.250	29.5				10.07	3.47	AZA	AZG		AZG
MS24586-342	MS24586-842		MS24586-C342			4.500	32.5				10.92	3.15	AZA	AZG		AZG
MS24586-343	MS24586-843		MS24586-C343			4.750	35.5				11.76	2.88	AZA	AZG		AZG
MS24586-344	MS24586-844		MS24586-C344			5.000	38.5				12.60	2.66	AZA	AZG		AZG
MS24586-345	MS24586-845	MS24586-1345	MS24586-C345			2.750	11.0				4.57	14.98	AZ	AZF	AZ	AZF
MS24586-346	MS24586-846	MS24586-1346	MS24586-C346			3.000	13.5				5.24	12.20	AZ	AZF	AZ	AZF
MS24586-347	MS24586-847	MS24586-1347	MS24586-C347			3.250	16.0				5.90	10.30	AZ	AZF	AZ	AZF
MS24586-348	MS24586-848	MS24586-1348	MS24586-C348			3.500	19.0				6.65	8.67	AZ	AZF	AZ	AZF
MS24586-349	MS24586-849	MS24586-1349	MS24586-C349	1.000	.095	3.750	21.5	.1657	30.0	2.7	7.31	7.66	AZ	AZF	AZ	AZF
MS24586-350	MS24586-850	MS24586-1350	MS24586-C350			4.000	24.0				7.98	6.86	AZA	AZG	AZA	AZG
MS24586-351	MS24586-851	MS24586-1351	MS24586-C351			4.250	26.5				8.64	6.22	AZA	AZG	AZA	AZG
MS24586-352	MS24586-852	MS24586-1352	MS24586-C352			4.500	29.5				9.39	5.59	AZA	AZG	AZA	AZG
MS24586-353	MS24586-853	MS24586-1353	MS24586-C353			4.750	32.0				10.05	5.15	AZA	AZG	AZA	AZG
MS24586-354	MS24586-854	MS24586-1354	MS24586-C354			5.000	34.5				10.72	4.78	AZA	AZH	AZA	AZH

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