

Lee's Stock Torsion Springs have been carefully designed to represent the most commonly used specifications.

For your convenience and ease of selection, the Torsion Spring section is divided into four categories by Free Position of Legs (90°, 180°, 270°, 360°).

Both left-hand and right-hand wound Lee Stock Numbers are shown.

GENERAL NOTES

1. Lengths of legs are shown as "A" in sketches below.
2. It is to be noted that "R" (radius in inches) where force is applied is always 1/2 of "A" (Length of Leg). Dotted lines of legs show loaded position where values of "T" (Torque) will be achieved at "R" (Radius).
3. To translate torque values to direct load:

Use Formula $P=T/R$

P = Load applied at Radius (R)

T = Torque

Example: Part **LTL 012 A 01**

What is the load where R = .187?

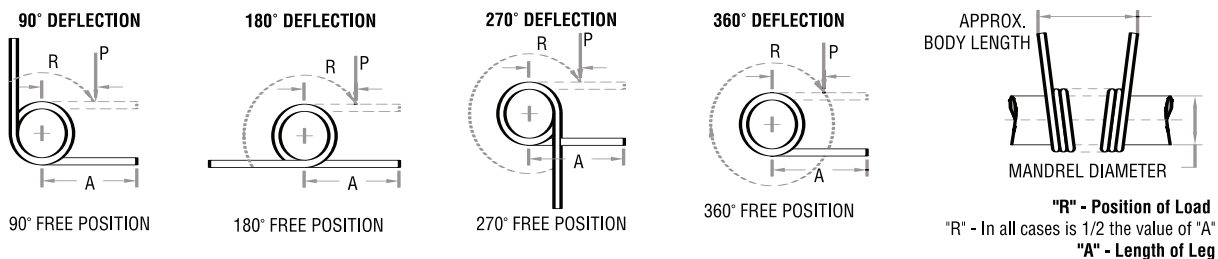
Using $P = T/R = .050/.187 = .267\text{lbs.}$

4. To calculate torque values other than those listed, a direct proportion may be used.

Example: Part **LTL 012 A 01**

Torque shown in catalog listing is .250 inch/lbs. for 180° deflection; therefore, torque at 90° deflection would be .125 inch/lbs.

5. Inspection of Load – Loads should always be checked at the Radius ("R" value).



SPECIAL INSTRUCTIONS FOR TORSION SERIES

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

PRICING: See Inside Front Cover for 10 to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Torque shown is for Music Wire. For Stainless Steel Torque, multiply figures shown by .933.

SPECIFICATIONS

Material: Music Wire
302 Stainless Steel

Plating: Zinc Plated .0002" (ASTM B-633)

Passivation: (ASTM A-967) (Mil. Spec. No. QQ-P-35)

Tolerances on Torque: ± 10%

Tolerances on Outside Diameter

Inches			Millimeters		
.093"	–	.125" ± .004"	2.36	–	3.17 ± .10mm
.126"	–	.200" ± .005"	3.18	–	5.08 ± .13mm
.201"	–	.300" ± .007"	5.09	–	7.62 ± .18mm
.301"	–	.410" ± .010"	7.63	–	10.41 ± .26mm
.411"	–	.500" ± .013"	10.42	–	12.70 ± .33mm
.501"	–	.700" ± .015"	12.71	–	17.78 ± .38mm
.701"	–	.875" ± .020"	17.79	–	22.23 ± .51mm
.876"	–	1.125" ± .025"	22.24	–	28.58 ± .64mm
1.126"	–	1.218" ± .030"	28.59	–	30.94 ± .76mm
1.219"	–	1.250" ± .035"	30.95	–	31.75 ± .89mm

Tolerances on Free Position:

From 3 to 10 total coils (Incl.) ± 10°

From 11 to 20 total coils (Incl.) ± 15°

MANDREL SIZE

Generally, torsion springs are used over a mandrel (shaft or arbor). The column "Suggested Mandrel Size, Inches", allows approximately a 10% clearance for the various deflections shown in examples below. If you require greater deflections, we suggest a suitable reduction in the mandrel size.

DIRECTION OF WIND

Good design dictates that torsion springs should be used in the direction that winds the coil. When ordering be sure to choose either **LTL** (Left Hand Wound) or **LTR** (Right Hand Wound) for required application.



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TORSION SPRINGS: 90° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 90° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
																M	S
LTL012A 01 LTR012A 01	.105	2.67	.012	.30	.050	.58	.187	4.75			0.375	9.53	0.054	1.37	3.25	G	J
LTL015B 01 LTR015B 01	.111	2.82	.015	.38	.100	1.15	.250	6.35	1/16 (.063)	1.59	0.500	12.70	0.068	1.73	3.25	G	J
LTL014A 01 LTR014A 01	.124	3.15	.014	.36	.075	.86	.250	6.35			0.500	12.70	0.065	1.65	3.25	G	J
LTL012A 07 LTR012A 07	.146	3.72	.012	.30	.050	.58	.250	6.35			0.500	12.70	0.039	0.99	2.25	G	J
LTL017C 01 LTR017C 01	.160	4.06	.017	.43	.125	1.44	.250	6.35	3/32 (.094)	2.38	0.500	12.70	0.077	1.96	3.25	G	J
LTL015B 07 LTR015B 07	.171	4.35	.015	.38	.100	1.15	.250	6.35			0.500	12.70	0.049	1.24	2.25	G	J
LTL014A 07 LTR014A 07	.172	4.37	.014	.36	.075	.86	.250	6.35			0.500	12.70	0.046	1.16	2.25	G	J
LTL018C 01 LTR018C 01	.178	4.52	.018	.46	.150	1.73	.250	6.35	1/8 (.125)	3.18	0.500	12.70	0.080	2.03	3.25	G	J
LTL020D 01 LTR020D 01	.191	4.85	.020	.51	.200	2.30	.375	9.53			0.750	19.05	0.090	2.29	3.25	G	J
LTL021D 01 LTR021D 01	.200	5.08	.021	.53	.250	2.88	.375	9.53			0.750	19.05	0.095	2.41	3.25	G	J
LTL023D 01 LTR023D 01	.204	5.18	.023	.58	.330	3.80	.375	9.53	9/64 (.141)	3.57	0.750	19.05	0.103	2.62	3.25	G	J
LTL017C 07 LTR017C 07	.223	5.67	.017	.43	.125	1.44	.375	9.53			0.750	19.05	0.055	1.40	2.25	G	J
LTL018C 07 LTR018C 07	.234	5.94	.018	.46	.150	1.73	.375	9.53	5/32 (.156)	3.97	0.750	19.05	0.059	1.49	2.25	G	J
LTL025E 01 LTR025E 01	.236	5.99	.025	.64	.420	4.84	.375	9.53			0.750	19.05	0.110	2.79	3.25	G	J
LTL021D 07 LTR021D 07	.261	6.63	.021	.53	.250	2.88	.500	12.70			1.000	25.40	0.068	1.73	2.25	G	J
LTL020D 07 LTR020D 07	.267	6.78	.020	.51	.200	2.30	.500	12.70			1.000	25.40	0.065	1.65	2.25	G	J
LTL028E 01 LTR028E 01	.267	6.78	.028	.71	.550	6.34	.500	12.70	3/16 (.188)	4.76	1.000	25.40	0.125	3.18	3.25	J	K
LTL023D 07 LTR023D 07	.285	7.23	.023	.58	.330	3.80	.500	12.70			1.000	25.40	0.075	1.90	2.25	G	J
LTL032F 01 LTR032F 01	.288	7.32	.032	.81	.875	10.08	.500	12.70			1.000	25.40	0.145	3.68	3.25	J	K
LTL030F 01 LTR030F 01	.305	7.75	.030	.76	.680	7.83	.500	12.70			1.000	25.40	0.132	3.35	3.25	J	K
LTL025E 07 LTR025E 07	.312	7.93	.025	.64	.420	4.84	.500	12.70	7/32 (.219)	5.56	1.000	25.40	0.081	2.06	2.25	J	K
LTL035G 01 LTR035G 01	.316	8.03	.035	.89	1.070	12.33	.625	15.88			1.250	31.75	0.153	3.89	3.25	J	K
LTL040H 01 LTR040H 01	.335	8.51	.040	1.02	1.500	17.28	.625	15.88			1.250	31.75	0.220	5.59	4.25	K	L

TORSION SPRINGS



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TORSION SPRINGS: 90° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 90° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
LTL045H 01 LTR045H 01	.356	9.04	.045	1.14	2.150	24.77	.625	15.88	15/64 (.234)	5.95	1.250	31.75	0.245	6.22	4.25	L	M
LTL028E 07 LTR028E 07	.373	9.47	.028	.71	.550	6.34	.500	12.70	1/4 (.250)	6.35	1.000	25.40	0.091	2.31	2.25	J	K
LTL038G 01 LTR038G 01	.386	9.80	.038	.97	1.280	14.75	.625	15.88	17/64 (.266)	6.75	1.250	31.75	0.170	4.32	3.25	K	L
LTL048J 01 LTR048J 01	.388	9.86	.048	1.22	2.750	31.68	.625	15.88			1.250	31.75	0.260	6.60	4.25	L	M
LTL030F 07 LTR030F 07	.398	10.10	.030	.76	.680	7.83	.500	12.70	9/32 (.281)	7.14	1.000	25.40	0.098	2.48	2.25	L	M
LTL032F 07 LTR032F 07	.402	10.21	.032	.81	.875	10.08	.500	12.70			1.000	25.40	0.104	2.64	2.25	L	M
LTL040H 07 LTR040H 07	.405	10.28	.040	1.02	1.500	17.28	.500	12.70			1.000	25.40	0.170	4.32	3.25	L	M
LTL051J 01 LTR051J 01	.408	10.36	.051	1.30	3.100	35.71	1.000	25.40	17/64 (.266)	6.75	2.000	50.80	0.275	6.99	4.25	P	R
LTL045H 07 LTR045H 07	.453	11.49	.045	1.14	2.150	24.77	.625	15.88	5/16 (.313)	7.94	1.250	31.75	0.191	4.86	3.25	P	R
LTL048J 07 LTR048J 07	.460	11.70	.048	1.22	2.750	31.68	.625	15.88			1.250	31.75	0.204	5.18	3.25	P	R
LTL035G 07 LTR035G 07	.468	11.88	.035	.89	1.070	12.33	.625	15.88	11/32 (.344)	8.73	1.250	31.75	0.114	2.89	2.25	P	R
LTL054K 01 LTR054K 01	.484	12.29	.054	1.37	3.500	40.32	1.000	25.40			2.000	50.80	0.295	7.49	4.25	R	S
LTL059K 01 LTR059K 01	.499	12.67	.059	1.50	4.500	51.84	1.000	25.40			2.000	50.80	0.320	8.13	4.25	U	W
LTL051J 07 LTR051J 07	.517	13.14	.051	1.30	3.100	35.71	.625	15.88	3/8 (.375)	9.53	1.250	31.75	0.217	5.51	3.25	U	W
LTL038G 07 LTR038G 07	.541	13.74	.038	.97	1.280	14.74	.625	15.88	13/32 (.406)	10.32	1.250	31.75	0.124	3.14	2.25	U	W
LTL063L 01 LTR063L 01	.560	14.22	.063	1.60	5.500	63.36	1.000	25.40	25/64 (.391)	9.92	2.000	50.80	0.350	8.89	4.25	W	X
LTL054K 07 LTR054K 07	.573	14.56	.054	1.37	3.500	40.32	.625	15.88	13/32 (.406)	10.32	1.250	31.75	0.230	5.83	3.25	W	X
LTL070M 01 LTR070M 01	.593	15.06	.070	1.78	7.500	86.40	1.000	25.40			2.000	50.80	0.375	9.53	4.25	Y	Z
LTL059K 07 LTR059K 07	.634	16.11	.059	1.50	4.500	51.84	1.000	25.40	15/32 (.469)	11.91	2.000	50.80	0.251	6.37	3.25	Y	Z
LTL075M 01 LTR075M 01	.637	16.18	.075	1.91	9.203	106.02	1.000	25.40	7/16 (.438)	11.11	2.000	50.80	0.402	10.21	4.25	Z	AA
LTL078N 01 LTR078N 01	.657	16.69	.078	1.98	10.450	120.38	1.000	25.40	29/64 (.453)	11.51	2.000	50.80	0.418	10.62	4.25	Z	AA
LTL063L 07 LTR063L 07	.675	17.15	.063	1.60	5.500	63.36	1.000	25.40	15/32 (.469)	11.91	2.000	50.80	0.268	6.80	3.25	AA	AB
LTL085N 01 LTR085N 01	.748	19.00	.085	2.16	12.860	148.15	1.250	31.75	33/64 (.516)	13.10	2.500	63.50	0.455	11.56	4.25	AA	AB
LTL070M 07 LTR070M 07	.754	19.15	.070	1.78	7.500	86.39	1.000	25.40	17/32 (.531)	13.49	2.000	50.80	0.298	7.56	3.25	AA	AB

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TORSION SPRINGS: 90° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 90° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
																M	S
LTL075M 07 LTR075M 07	.810	20.56	.075	1.91	9.203	106.01	1.000	25.40	19/32 (.594)	15.08	2.000	50.80	0.319	8.10	3.25	AA	AB
LTL078N 07 LTR078N 07	.835	21.21	.078	1.98	10.450	120.38	1.000	25.40			2.000	50.80	0.332	8.42	3.25	AA	AB
LTL105Q 01 LTR105Q 01	.848	21.54	.105	2.67	21.000	241.92	1.750	44.45	37/64 (.578)	14.68	3.500	88.90	0.656	16.66	5.25	AC	AD
LTL095P 01 LTR095P 01	.871	22.12	.095	2.41	17.140	197.45	1.500	38.10	39/64 (.609)	15.48	3.000	76.20	0.509	12.93	4.25	AB	AC
LTL085N 07 LTR085N 07	.952	24.19	.085	2.16	12.860	148.14	1.250	31.75	11/16 (.688)	17.46	2.500	63.50	0.361	9.18	3.25	AB	AC
LTL115R 01 LTR115R 01	.978	24.84	.115	2.92	28.000	322.56	2.000	50.80			4.000	101.60	0.718	18.24	5.25	AD	AE
LTL125S 01 LTR125S 01	.989	25.12	.125	3.18	32.000	368.64	2.000	50.80			4.000	101.60	0.906	23.01	6.25	AE	AG
LTL135T 01 LTR135T 01	1.102	27.99	.135	3.43	40.000	460.80	2.000	50.80	49/64 (.766)	19.45	4.000	101.60	0.978	24.84	6.25	AG	AJ
LTL095P 07 LTR095P 07	1.110	28.20	.095	2.41	17.140	197.44	1.500	38.10	13/16 (.813)	20.64	3.000	76.20	0.404	10.26	3.25	AG	AJ
LTL105Q 07 LTR105Q 07	1.342	34.08	.105	2.67	21.000	241.90	1.750	44.45	1 1/32 (1.031)	26.19	3.500	88.90	0.446	11.33	3.25	AG	AJ
LTL125S 07 LTR125S 07	1.372	34.84	.125	3.18	32.000	368.62	2.000	50.80			4.000	101.60	0.656	16.67	4.25	AG	AJ
LTL115R 07 LTR115R 07	1.450	36.82	.115	2.92	28.000	322.54	2.000	50.80	1 3/32 (1.094)	27.78	4.000	101.60	0.489	12.41	3.25	AG	AJ
LTL135T 07 LTR135T 07	1.492	37.89	.135	3.43	40.000	460.77	2.000	50.80	1 1/8 (1.125)	28.58	4.000	101.60	0.709	18.00	4.25	AG	AJ

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TORSION SPRINGS: 180° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 180° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
LTL012A 02 LTR012A 02	.110	2.79	.012	.31	.050	.58	.187	4.75	1/16 (.063)	1.59	0.375	9.53	0.086	2.18	6.00	G	J
LTL015B 02 LTR015B 02	.131	3.33	.015	.38	.100	1.15	.250	6.35	5/64 (.078)	1.98	0.500	12.70	0.107	2.72	6.00	G	J
LTL014A 02 LTR014A 02	.133	3.38	.014	.36	.075	.86	.250	6.35			0.500	12.70	0.103	2.62	6.00	G	J
LTL018C 02 LTR018C 02	.165	4.19	.018	.46	.150	1.73	.250	6.35	7/64 (.109)	2.78	0.500	12.70	0.150	3.81	7.00	G	J
LTL012A 04 LTR012A 04	.167	4.24	.012	.31	.050	.58	.250	6.35			0.500	12.70	0.059	1.50	4.00	G	J
LTL017C 02 LTR017C 02	.172	4.37	.017	.43	.125	1.44	.250	6.35			0.500	12.70	0.125	3.18	6.00	G	J
LTL020D 02 LTR020D 02	.179	4.55	.020	.51	.200	2.30	.375	9.53			0.750	19.05	0.165	4.19	7.00	G	J
LTL015B 04 LTR015B 04	.184	4.67	.015	.38	.100	1.15	.375	9.53	1/8 (.125)	3.18	0.750	19.05	0.075	1.91	4.00	G	J
LTL021D 02 LTR021D 02	.186	4.72	.021	.53	.250	2.88	.375	9.53			0.750	19.05	0.173	4.39	7.00	G	J
LTL023D 02 LTR023D 02	.191	4.85	.023	.58	.330	3.80	.375	9.53			0.750	19.05	0.190	4.83	7.00	G	J
LTL014A 04 LTR014A 04	.194	4.93	.014	.36	.075	.86	.375	9.53	9/64 (.141)	3.57	0.750	19.05	0.075	1.91	4.00	G	J
LTL018C 04 LTR018C 04	.217	5.51	.018	.46	.150	1.73	.375	9.53	5/32 (.156)	3.97	0.750	19.05	0.109	2.77	5.00	G	J
LTL025E 02 LTR025E 02	.225	5.72	.025	.64	.420	4.84	.375	9.53			0.750	19.05	0.206	5.23	7.00	G	J
LTL020D 04 LTR020D 04	.242	6.15	.020	.51	.200	2.30	.500	12.70	11/64 (.172)	4.37	1.000	25.40	0.125	3.18	5.00	G	J
LTL021D 04 LTR021D 04	.248	6.30	.021	.53	.250	2.88	.500	12.70			1.000	25.40	0.127	3.23	5.00	G	J
LTL017C 04 LTR017C 04	.249	6.32	.017	.43	.125	1.44	.375	9.53			0.750	19.05	0.090	2.29	4.00	G	J
LTL028E 02 LTR028E 02	.249	6.32	.028	.71	.550	6.34	.500	12.70			1.000	25.40	0.235	5.97	7.00	J	K
LTL023D 04 LTR023D 04	.259	6.58	.023	.58	.330	3.80	.500	12.70			1.000	25.40	0.145	3.68	5.00	G	J
LTL032F 02 LTR032F 02	.270	6.86	.032	.81	.875	10.08	.500	12.70			1.000	25.40	0.265	6.73	7.00	J	K
LTL030F 02 LTR030F 02	.273	6.93	.030	.76	.680	7.83	.500	12.70	3/16 (.188)	4.76	1.000	25.40	0.248	6.30	7.00	J	K
LTL035G 02 LTR035G 02	.304	7.72	.035	.89	1.070	12.33	.625	15.88	13/64 (.203)	5.16	1.250	31.75	0.290	7.37	7.00	J	K
LTL025E 04 LTR025E 04	.305	7.75	.025	.64	.420	4.84	.500	12.70	7/32 (.219)	5.56	1.000	25.40	0.151	3.84	5.00	G	J
LTL028E 04 LTR028E 04	.340	8.64	.028	.71	.550	6.34	.500	12.70	15/64 (.234)	5.95	1.000	25.40	0.175	4.45	5.00	J	K
LTL040H 02 LTR040H 02	.349	8.86	.040	1.02	1.500	17.28	.625	15.88			1.250	31.75	0.374	9.50	8.00	K	L

TORSION SPRINGS

SPECIAL INSTRUCTIONS FOR TORSION SERIES

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

PRICING: See Inside Front Cover for 10 to 199 pricing. To price or order up to 1000 pcs., visit leespring.com; 1000+ pcs. contact Lee Spring.

CALCULATIONS: Torque shown is for Music Wire. For Stainless Steel Torque, multiply figures shown by .933.

TORSION SPRINGS: 180° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 180° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
																M	S
LTL038G 02 LTR038G 02	.363	9.22	.038	.97	1.280	14.75	.625	15.88	1/4 (.250)	6.35	1.250	31.75	0.315	8.00	7.00	K	L
LTL032F 04 LTR032F 04	.366	9.30	.032	.81	.875	10.08	.500	12.70	17/64 (.266)	6.75	1.000	25.40	0.200	5.08	5.00	J	K
LTL045H 02 LTR045H 02	.377	9.58	.045	1.14	2.150	24.77	.625	15.88	1/4 (.250)	6.35	1.250	31.75	0.415	10.54	8.00	L	M
LTL030F 04 LTR030F 04	.395	10.03	.030	.76	.680	7.83	.500	12.70	9/32 (.281)	7.14	1.000	25.40	0.181	4.60	5.00	J	K
LTL048J 02 LTR048J 02	.405	10.29	.048	1.22	2.750	31.68	.625	15.88			1.250	31.75	0.450	11.43	8.00	L	M
LTL051J 02 LTR051J 02	.430	10.92	.051	1.30	3.100	35.71	1.000	25.40	19/64 (.297)	7.54	2.000	50.80	0.470	11.94	8.00	P	R
LTL035G 04 LTR035G 04	.451	11.46	.035	.89	1.070	12.33	.625	15.88	21/64 (.328)	8.33	1.250	31.75	0.212	5.38	5.00	K	L
LTL038G 04 LTR038G 04	.487	12.37	.038	.97	1.280	14.75	.625	15.88	23/64 (.359)	9.13	1.250	31.75	0.238	6.05	5.00	K	L
LTL054K 02 LTR054K 02	.509	12.93	.054	1.37	3.500	40.32	1.000	25.40	9/25 (.360)	9.14	2.000	50.80	0.500	12.70	8.00	R	S
LTL040H 04 LTR040H 04	.519	13.18	.040	1.02	1.500	17.28	1.000	25.40	3/8 (.375)	9.53	2.000	50.80	0.242	6.15	5.00	L	M
LTL059K 02 LTR059K 02	.526	13.36	.059	1.50	4.500	51.84	1.000	25.40	23/64 (.359)	9.13	2.000	50.80	0.540	13.72	8.00	U	W
LTL051J 04 LTR051J 04	.556	14.12	.051	1.30	3.100	35.71	1.000	25.40	25/64 (.391)	9.92	2.000	50.80	0.365	9.27	6.00	P	R
LTL045H 04 LTR045H 04	.575	14.61	.045	1.14	2.150	24.77	1.000	25.40	27/64 (.422)	10.72	2.000	50.80	0.280	7.11	5.00	L	M
LTL063L 02 LTR063L 02	.591	15.01	.063	1.60	5.500	63.36	1.000	25.40			2.000	50.80	0.580	14.73	8.00	W	X
LTL048J 04 LTR048J 04	.619	15.72	.048	1.22	2.750	31.68	1.000	25.40	29/64 (.453)	11.51	2.000	50.80	0.292	7.42	5.00	P	R
LTL070M 02 LTR070M 02	.625	15.88	.070	1.78	7.500	86.40	1.000	25.40	7/16 (.438)	11.11	2.000	50.80	0.640	16.26	8.00	Y	Z
LTL054K 04 LTR054K 04	.654	16.61	.054	1.37	3.500	40.32	1.000	25.40	31/64 (.484)	12.30	2.000	50.80	0.390	9.91	6.00	S	T
LTL075M 02 LTR075M 02	.672	17.07	.075	1.91	9.203	106.02	1.000	25.40	15/32 (.469)	11.91	2.000	50.80	0.689	17.50	8.00	Z	AA
LTL059K 04 LTR059K 04	.681	17.30	.059	1.50	4.500	51.84	1.000	25.40	1/2 (.500)	12.70	2.000	50.80	0.425	10.80	6.00	X	Y
LTL078N 02 LTR078N 02	.693	17.60	.078	1.98	10.450	120.38	1.000	25.40	31/64 (.484)	12.30	2.000	50.80	0.716	18.19	8.00	Z	AA
LTL075M 04 LTR075M 04	.757	19.23	.075	1.91	9.203	106.02	1.000	25.40	35/64 (.547)	13.89	2.000	50.80	0.612	15.54	7.00	AA	AB
LTL063L 04 LTR063L 04	.767	19.48	.063	1.60	5.500	63.36	1.000	25.40	9/16 (.563)	14.29	2.000	50.80	0.460	11.68	6.00	Y	Z
LTL078N 04 LTR078N 04	.781	19.84	.078	1.98	10.450	120.38	1.000	25.40			2.000	50.80	0.637	16.18	7.00	AB	AB
LTL085N 02 LTR085N 02	.790	20.07	.085	2.16	12.860	148.15	1.250	31.75			2.500	63.50	0.780	19.81	8.00	AA	AB

TORSION SPRINGS



SPECIAL INSTRUCTIONS FOR TORSION SERIES

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TORSION SPRINGS: 180° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 180° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
																M	S
LTL070M 04 LTR070M 04	.810	20.57	.070	1.79	7.500	86.40	1.000	25.40	19/32 (.594)	15.08	2.000	50.80	0.500	12.70	6.00	Z	AA
LTL085N 04 LTR085N 04	.891	22.63	.085	2.16	12.860	148.15	1.250	31.75	41/64 (.641)	16.27	2.500	63.50	0.694	17.63	7.00	AB	AC
LTL095P 02 LTR095P 02	.920	23.37	.095	2.41	17.140	197.45	1.500	38.10	21/32 (.656)	16.67	3.000	76.20	0.872	22.15	8.00	AB	AC
LTL105Q 02 LTR105Q 02	.982	24.94	.105	2.67	21.000	241.92	1.750	44.45	45/64 (.703)	17.86	3.500	88.90	1.050	26.67	9.00	AC	AD
LTL095P 04 LTR095P 04	1.038	26.37	.095	2.41	17.140	197.45	1.500	38.10	49/64 (.766)	19.45	3.000	76.20	0.775	19.69	7.00	AB	AC
LTL115R 02 LTR115R 02	1.043	26.49	.115	2.92	28.000	322.56	2.000	50.80	47/64 (.734)	18.65	4.000	101.60	1.150	29.21	9.00	AD	AE
LTL125S 02 LTR125S 02	1.082	27.48	.125	3.18	32.000	368.64	2.000	50.80	49/64 (.766)	19.45	4.000	101.60	1.500	38.10	11.00	AE	AG
LTL135T 02 LTR135T 02	1.189	30.20	.135	3.43	40.000	460.80	2.000	50.80	27/32 (.844)	21.43	4.000	101.60	1.620	41.15	11.00	AG	AJ
LTL105Q 04 LTR105Q 04	1.248	31.70	.105	2.67	21.000	241.92	1.750	44.45	15/16 (.938)	23.81	3.500	88.90	0.840	21.34	7.00	AD	AE
LTL115R 04 LTR115R 04	1.348	34.24	.115	2.92	28.000	322.56	2.000	50.80	1 (1.00)	25.40	4.000	101.60	0.920	23.37	7.00	AE	AG
LTL125S 04 LTR125S 04	1.356	34.44	.125	3.18	32.000	368.64	2.000	50.80			4.000	101.60	1.125	28.58	8.00	AG	AJ
LTL135T 04 LTR135T 04	1.491	37.87	.135	3.43	40.000	460.80	2.000	50.80	1 3/32 (1.094)	27.78	4.000	101.60	1.215	30.86	8.00	AJ	AK

TORSION SPRINGS

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TORSION SPRINGS: 270° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 270° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
LTL012A 03 LTR012A 03	.103	2.62	.012	.30	.050	.58	.187	4.75	1/16 (.063)	1.59	0.375	9.53	0.139	3.53	9.75	G	J
LTL014A 03 LTR014A 03	.124	3.15	.014	.36	.075	.86	.250	6.35	5/64 (.078)	1.98	0.500	12.70	0.156	3.96	9.75	G	J
LTL015B 03 LTR015B 03	.125	3.18	.015	.38	.100	1.15	.250	6.35			0.500	12.70	0.173	4.39	9.75	G	J
LTL017C 03 LTR017C 03	.160	4.06	.017	.43	.125	1.44	.250	6.35	7/64 (.109)	2.78	0.500	12.70	0.188	4.78	9.75	G	J
LTL018C 03 LTR018C 03	.160	4.06	.018	.46	.150	1.73	.250	6.35			0.500	12.70	0.228	5.79	10.75	G	J
LTL012A 05 LTR012A 05	.171	4.34	.012	.30	.050	.58	.250	6.35			0.500	12.70	0.086	2.18	5.75	G	J
LTL020D 03 LTR020D 03	.175	4.45	.020	.51	.200	2.30	.375	9.53			0.750	19.05	0.240	6.10	10.75	G	J
LTL021D 03 LTR021D 03	.185	4.70	.021	.53	.250	2.88	.375	9.53	1/8 (.125)	3.18	0.750	19.05	0.266	6.76	10.75	G	J
LTL023D 03 LTR023D 03	.187	4.75	.023	.58	.330	3.80	.375	9.53			0.750	19.05	0.280	7.11	10.75	G	J
LTL015B 05 LTR015B 05	.200	5.08	.015	.38	.100	1.15	.375	9.53	9/64 (.141)	3.57	0.750	19.05	0.107	2.72	5.75	G	J
LTL014A 05 LTR014A 05	.201	5.11	.014	.36	.075	.86	.375	9.53			0.750	19.05	0.100	2.54	5.75	G	J
LTL025E 03 LTR025E 03	.220	5.59	.025	.64	.420	4.84	.375	9.53			0.750	19.05	0.304	7.72	10.75	G	J
LTL028E 03 LTR028E 03	.245	6.22	.028	.71	.550	6.34	.500	12.70	11/64 (.172)	4.37	1.000	25.40	0.340	8.64	10.75	J	K
LTL018C 05 LTR018C 05	.246	6.25	.018	.46	.150	1.73	.375	9.53			0.750	19.05	0.150	3.81	6.75	G	J
LTL021D 05 LTR021D 05	.246	6.25	.021	.53	.250	2.88	.500	12.70			1.000	25.40	0.195	4.95	7.75	G	J
LTL023D 05 LTR023D 05	.251	6.38	.023	.58	.330	3.80	.500	12.70			1.000	25.40	0.210	5.33	7.75	G	J
LTL017C 05 LTR017C 05	.259	6.58	.017	.43	.125	1.44	.375	9.53	3/16 (.188)	4.76	0.750	19.05	0.120	3.05	5.75	G	J
LTL032F 03 LTR032F 03	.264	6.71	.032	.81	.875	10.08	.500	12.70	11/64 (.172)	4.37	1.000	25.40	0.385	9.78	10.75	J	K
LTL020D 05 LTR020D 05	.268	6.81	.020	.51	.200	2.30	.500	12.70	3/16 (.188)	4.76	1.000	25.40	0.160	4.06	6.75	G	J
LTL030F 03 LTR030F 03	.271	6.88	.030	.76	.680	7.83	.500	12.70			1.000	25.40	0.365	9.27	10.75	J	K
LTL035G 03 LTR035G 03	.312	7.93	.035	.89	1.070	12.33	.625	15.88	13/64 (.203)	5.16	1.250	31.75	0.425	10.80	10.75	K	L
LTL028E 05 LTR028E 05	.329	8.36	.028	.71	.550	6.34	.500	12.70	15/64 (.234)	5.95	1.000	25.40	0.255	6.48	7.75	J	K

TORSION SPRINGS



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TORSION SPRINGS: 270° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 270° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
															M	S	
LTL025E 05 LTR025E 05	.341	8.66	.025	.64	.420	4.84	.500	12.70			1.000	25.40	0.206	5.23	6.75	G	J
LTL032F 05 LTR032F 05	.354	8.99	.032	.81	.875	10.08	.500	12.70	1/4 (.250)	6.35	1.000	25.40	0.290	7.37	7.75	J	K
LTL038G 03 LTR038G 03	.355	9.02	.038	.97	1.280	14.75	.625	15.88			1.250	31.75	0.455	11.56	10.75	K	L
LTL040H 03 LTR040H 03	.359	9.12	.040	1.02	1.500	17.28	.625	15.88			1.250	31.75	0.525	13.34	11.75	L	M
LTL030F 05 LTR030F 05	.377	9.58	.030	.76	.680	7.83	.500	12.70	17/64 (.266)	6.75	1.000	25.40	0.280	7.11	7.75	J	K
LTL045H 03 LTR045H 03	.382	9.70	.045	1.14	2.150	24.77	.625	15.88	1/4 (.250)	6.35	1.250	31.75	0.585	14.86	11.75	L	M
LTL048J 03 LTR048J 03	.417	10.59	.048	1.22	2.750	31.68	.625	15.88	9/32 (.281)	7.14	1.250	31.75	0.630	16.00	11.75	P	R
LTL035G 05 LTR035G 05	.436	11.07	.035	.89	1.070	12.33	.625	15.88	5/16 (.313)	7.94	1.250	31.75	0.315	8.00	7.75	K	L
LTL051J 03 LTR051J 03	.439	11.15	.051	1.30	3.100	35.71	1.000	25.40	19/64 (.297)	7.54	2.000	50.80	0.660	16.76	11.75	P	R
LTL038G 05 LTR038G 05	.477	12.12	.038	.97	1.280	14.75	.625	15.88	11/32 (.344)	8.73	1.250	31.75	0.342	8.69	7.75	K	L
LTL040H 05 LTR040H 05	.512	13.01	.040	1.02	1.500	17.28	1.000	25.40	3/8 (.375)	9.53	2.000	50.80	0.360	9.14	7.75	L	M
LTL054K 03 LTR054K 03	.514	13.06	.054	1.37	3.500	40.32	1.000	25.40	23/64 (.359)	9.13	2.000	50.80	0.700	17.78	11.75	S	T
LTL059K 03 LTR059K 03	.537	13.64	.059	1.50	4.500	51.84	1.000	25.40	3/8 (.375)	9.53	2.000	50.80	0.765	19.43	11.75	X	Y
LTL045H 05 LTR045H 05	.556	14.12	.045	1.14	2.150	24.77	1.000	25.40	13/32 (.406)	10.32	2.000	50.80	0.405	10.29	7.75	L	M
LTL051J 05 LTR051J 05	.571	14.50	.051	1.30	3.100	35.71	1.000	25.40			2.000	50.80	0.510	12.95	8.75	P	R
LTL063L 03 LTR063L 03	.600	15.24	.063	1.60	5.500	63.36	1.000	25.40	27/64 (.422)	10.72	2.000	50.80	0.820	20.83	11.75	X	Y
LTL048J 05 LTR048J 05	.601	15.27	.048	1.22	2.750	31.68	1.000	25.40	7/16 (.438)	11.11	2.000	50.80	0.435	11.05	7.75	P	R
LTL070M 03 LTR070M 03	.639	16.23	.070	1.78	7.500	86.40	1.000	25.40			2.000	50.80	0.805	20.45	11.75	X	Y
LTL054K 05 LTR054K 05	.664	16.87	.054	1.37	3.500	40.32	1.000	25.40	31/64 (.484)	12.30	2.000	50.80	0.540	13.72	8.75	S	T
LTL075M 03 LTR075M 03	.685	17.40	.075	1.91	9.203	106.02	1.000	25.40			2.000	50.80	0.975	24.77	11.75	Z	AA
LTL059K 05 LTR059K 05	.699	17.76	.059	1.50	4.500	51.84	1.000	25.40	33/64 (.516)	13.10	2.000	50.80	0.585	14.86	8.75	X	Y
LTL078N 03 LTR078N 03	.706	17.93	.078	1.98	10.450	120.38	1.000	25.40	1/2 (.500)	12.70	2.000	50.80	1.015	25.78	11.75	Z	AA
LTL063L 05 LTR063L 05	.784	19.91	.063	1.60	5.500	63.36	1.000	25.40	37/64 (.578)	14.68	2.000	50.80	0.630	16.00	8.75	X	Y
LTL085N 03 LTR085N 03	.805	20.45	.085	2.16	12.860	148.15	1.250	31.75			2.500	63.50	1.106	28.09	11.75	AA	AB

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Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 270° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
																M	S
LTL075M 05 LTR075M 05	.810	20.57	.075	1.91	9.203	106.02	1.000	25.40	19/32 (.594)	15.08	2.000	50.80	0.822	20.88	9.75	AB	AC
LTL070M 05 LTR070M 05	.826	20.98	.070	1.78	7.500	86.40	1.000	25.40	39/64 (.609)	15.48	2.000	50.80	0.790	20.07	8.75	AA	AB
LTL078N 05 LTR078N 05	.835	21.21	.078	1.98	10.450	120.38	1.000	25.40			2.000	50.80	0.855	21.72	9.75	AB	AC
LTL095P 03 LTR095P 03	.937	23.80	.095	2.41	17.140	197.45	1.500	38.10	43/64 (.672)	17.07	3.000	76.20	1.235	31.37	11.75	AB	AC
LTL085N 05 LTR085N 05	.952	24.18	.085	2.16	12.860	148.15	1.250	31.75	45/64 (.703)	17.86	2.500	63.50	0.932	23.67	9.75	AC	AD
LTL115R 03 LTR115R 03	1.086	27.58	.115	2.92	28.000	322.56	2.000	50.80	25/32 (.781)	19.84	4.000	101.60	1.696	43.08	13.75	AD	AE
LTL105Q 03 LTR105Q 03	1.090	27.69	.105	2.67	21.000	241.92	1.750	44.45	51/64 (.797)	20.24	3.500	88.90	1.339	34.01	11.75	AC	AD
LTL095P 05 LTR095P 05	1.110	28.19	.095	2.41	17.140	197.45	1.500	38.10	53/64 (.828)	21.03	3.000	76.20	1.042	26.47	9.75	AD	AE
LTL125S 03 LTR125S 03	1.189	30.20	.125	3.18	32.000	368.64	2.000	50.80	55/64 (.859)	21.83	4.000	101.60	1.968	49.99	14.75	AG	AJ
LTL135T 03 LTR135T 03	1.301	33.05	.135	3.43	40.000	460.80	2.000	50.80	15/16 (.938)	23.81	4.000	101.60	2.126	54.00	14.75	AG	AJ
LTL105Q 05 LTR105Q 05	1.342	34.09	.105	2.67	21.000	241.92	1.750	44.45	1 1/64 (1.016)	25.80	3.500	88.90	1.129	28.68	9.75	AE	AG
LTL125S 05 LTR125S 05	1.516	38.51	.125	3.18	32.000	368.64	2.000	50.80	1 9/64 (1.141)	28.97	4.000	101.60	1.593	40.46	11.75	AJ	AK
LTL135T 05 LTR135T 05	1.660	42.16	.135	3.43	40.000	460.80	2.000	50.80	1 1/4 (1.250)	31.75	4.000	101.60	1.721	43.71	11.75	AK	AL

TORSION SPRINGS



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TORSION SPRINGS: 360° FREE POSITION

Music Wire (Plated) or Stainless Steel (Passivated), LTL - Left Hand Wound; LTR - Right Hand Wound

LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 360° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
LTL012A 06 LTR012A 06	.174	4.42	.012	.30	.050	.58	.250	6.35	1/8 (.125)	3.18	0.500	12.70	0.102	2.59	7.50	G	J
LTL014A 06 LTR014A 06	.204	5.18	.014	.36	.075	.86	.375	9.53	9/64 (.141)	3.57	0.750	19.05	0.119	3.02	7.50	G	J
LTL015B 06 LTR015B 06	.208	5.28	.015	.38	.100	1.15	.375	9.53			0.750	19.05	0.128	3.24	7.50	G	J
LTL012A 08 LTR012A 08	.221	5.62	.012	.30	.050	.58	.375	9.53	5/32 (.156)	3.97	0.750	19.05	0.078	1.98	5.50	G	J
LTL018C 06 LTR018C 06	.234	5.94	.018	.46	.150	1.73	.375	9.53	11/64 (.172)	4.37	0.750	19.05	0.200	5.08	9.50	G	J
LTL017C 06 LTR017C 06	.235	5.97	.017	.43	.125	1.44	.375	9.53			0.750	19.05	0.167	4.24	8.50	G	J
LTL020D 06 LTR020D 06	.254	6.45	.020	.51	.200	2.30	.500	12.70			1.000	25.40	0.215	5.46	9.50	G	J
LTL015B 08 LTR015B 08	.271	6.88	.015	.38	.100	1.15	.500	12.70	3/16 (.188)	4.76	1.000	25.40	0.098	2.48	5.50	G	J
LTL023D 06 LTR023D 06	.271	6.88	.023	.58	.330	3.80	.500	12.70			1.000	25.40	0.250	6.35	9.50	G	J
LTL021D 06 LTR021D 06	.272	6.91	.021	.53	.250	2.88	.500	12.70			1.000	25.40	0.230	5.84	9.50	G	J
LTL014A 08 LTR014A 08	.273	6.93	.014	.36	.075	.86	.375	9.53			0.750	19.05	0.091	2.31	5.50	G	J
LTL017C 08 LTR017C 08	.303	7.68	.017	.43	.125	1.44	.500	12.70	7/32 (.219)	5.56	1.000	25.40	0.128	3.24	6.50	G	J
LTL025E 06 LTR025E 06	.325	8.26	.025	.64	.420	4.84	.500	12.70	15/64 (.234)	5.95	1.000	25.40	0.275	6.99	9.50	G	J
LTL028E 06 LTR028E 06	.355	9.02	.028	.71	.550	6.34	.500	12.70	1/4 (.250)	6.35	1.000	25.40	0.305	7.75	9.50	J	K
LTL018C 08 LTR018C 08	.371	9.43	.018	.46	.150	1.73	.500	12.70	17/64 (.266)	6.75	1.000	25.40	0.117	2.97	5.50	J	K
LTL032F 06 LTR032F 06	.382	9.70	.032	.81	.875	10.08	.500	12.70			1.000	25.40	0.345	8.76	9.50	J	K
LTL030F 06 LTR030F 06	.410	10.41	.030	.76	.680	7.83	.500	12.70	19/64 (.297)	7.54	1.000	25.40	0.325	8.26	9.50	J	K
LTL021D 08 LTR021D 08	.414	10.51	.021	.53	.250	2.88	.500	12.70			1.000	25.40	0.137	3.47	5.50	J	K
LTL020D 08 LTR020D 08	.424	10.77	.020	.51	.200	2.30	.625	15.88	5/16 (.313)	7.94	1.250	31.75	0.130	3.30	5.50	J	K
LTL023D 08 LTR023D 08	.451	11.46	.023	.58	.330	3.80	.625	15.88	21/64 (.328)	8.33	1.250	31.75	0.150	3.80	5.50	K	L
LTL035G 06 LTR035G 06	.472	11.99	.035	.89	1.070	12.33	.625	15.88	11/32 (.344)	8.73	1.250	31.75	0.380	9.65	9.50	K	L
LTL025E 08 LTR025E 08	.495	12.57	.025	.64	.420	4.84	.625	15.88	23/64 (.359)	9.13	1.250	31.75	0.163	4.13	5.50	J	K
LTL040H 06 LTR040H 06	.508	12.90	.040	1.02	1.500	17.28	1.000	25.40	3/8 (.375)	9.53	2.000	50.80	0.470	11.94	10.50	L	M
LTL038G 06 LTR038G 06	.514	13.06	.040	1.02	1.28	14.75	.625	15.88			1.250	31.75	0.410	10.41	9.50	K	L

TORSION SPRINGS

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LEE STOCK NUMBER	OUTSIDE DIAMETER		WIRE DIAMETER		TORQUE @ 360° DEFLECTION (T)		RADIUS (R)		SUGGESTED MANDREL SIZE		LENGTH OF LEG (A)		BODY LENGTH APPROX. (L)		NUMBER OF COILS	PRICE GROUP	
	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		M	S
LTL045H 06 LTR045H 06	.549	13.94	.045	1.14	1.150	13.25	1.000	25.40	25/64 (.391)	9.92	2.000	50.80	0.530	13.46	10.50	L	M
LTL028E 08 LTR028E 08	.592	15.05	.028	.71	.550	6.34	1.000	25.40	7/16 (.438)	11.11	2.000	50.80	0.182	4.62	5.50	P	R
LTL048J 06 LTR048J 06	.595	15.11	.048	1.22	2.750	31.68	1.000	25.40			2.000	50.80	0.570	14.48	10.50	P	R
LTL051J 06 LTR051J 06	.628	15.95	.051	1.30	3.100	35.71	1.000	25.40	29/64 (.453)	11.51	2.000	50.80	0.600	15.24	10.50	P	R
LTL030F 08 LTR030F 08	.632	16.04	.030	.76	.680	7.83	1.000	25.40			2.000	50.80	0.195	4.95	5.50	P	R
LTL032F 08 LTR032F 08	.637	16.19	.032	.81	.875	10.08	1.000	25.40	15/32 (.469)	11.91	2.000	50.80	0.208	5.28	5.50	S	T
LTL040H 08 LTR040H 08	.672	17.07	.040	1.02	1.500	17.28	1.000	25.40	1/2 (.500)	12.70	2.000	50.80	0.340	8.64	7.50	S	T
LTL054K 06 LTR054K 06	.694	17.63	.054	1.37	3.500	40.32	1.000	25.40	33/64 (.516)	13.10	2.000	50.80	0.690	17.53	11.50	U	W
LTL059K 06 LTR059K 06	.709	18.01	.059	1.50	4.500	51.84	1.000	25.40			2.000	50.80	0.750	19.05	11.50	X	Y
LTL035G 08 LTR035G 08	.743	18.88	.035	.89	1.070	12.33	1.000	25.40	35/64 (.547)	13.89	2.000	50.80	0.228	5.78	5.50	X	Y
LTL045H 08 LTR045H 08	.751	19.09	.045	1.14	2.150	24.77	1.000	25.40	9/16 (.563)	14.29	2.000	50.80	0.383	9.72	7.50	X	Y
LTL048J 08 LTR048J 08	.763	19.38	.048	1.22	2.750	31.68	1.000	25.40			2.000	50.80	0.408	10.36	7.50	X	Y
LTL063L 06 LTR063L 06	.798	20.27	.060	1.52	5.500	63.36	1.000	25.40	19/32 (.594)	15.08	2.000	50.80	0.805	20.45	11.50	X	Y
LTL063L 08 LTR063L 08	.830	21.08	.060	1.52	5.500	63.36	1.000	25.40	39/64 (.609)	15.48	2.000	50.80	0.570	14.48	8.50	X	Y
LTL070M 06 LTR070M 06	.843	21.41	.070	1.78	7.500	86.40	1.000	25.40	5/8 (.625)	15.88	2.000	50.80	0.890	22.61	11.50	AB	AC
LTL054K 08 LTR054K 08	.848	21.54	.054	1.37	3.500	40.32	1.000	25.40	41/64 (.641)	16.27	2.000	50.80	0.513	13.03	8.50	AB	AC
LTL051J 08 LTR051J 08	.859	21.83	.051	1.30	3.100	35.71	1.000	25.40			2.000	50.80	0.434	11.01	7.50	AB	AC
LTL038G 08 LTR038G 08	.861	21.87	.038	.97	1.280	14.74	1.000	25.40	5/8 (.625)	15.88	2.000	50.80	0.247	6.27	5.50	AC	AD
LTL059K 08 LTR059K 08	.939	23.85	.059	1.50	4.500	51.84	1.000	25.40	45/64 (.703)	17.86	2.000	50.80	0.561	14.24	8.50	AC	AD
LTL075M 06 LTR075M 06	.985	25.02	.075	1.91	9.203	106.02	1.000	25.40	47/64 (.734)	18.65	2.000	50.80	0.880	22.35	10.50	AC	AD
LTL078N 06 LTR078N 06	1.015	25.78	.078	1.98	10.450	120.38	1.000	25.40	3/4 (.750)	19.05	2.000	50.80	0.915	23.24	10.50	AC	AD
LTL085N 06 LTR085N 06	1.070	27.08	.085	2.16	12.860	148.15	1.250	31.75	5/8 (.625)	15.88	2.500	63.50	1.084	27.53	11.50	AD	AE
LTL070M 08 LTR070M 08	1.116	28.35	.070	1.78	7.500	86.39	1.500	38.10	27/32 (.844)	21.43	3.000	76.20	0.665	16.89	8.50	AE	AG
LTL095P 06 LTR095P 06	1.243	31.57	.095	2.41	17.140	197.45	1.500	38.10	15/16 (.938)	23.81	3.000	76.20	1.211	30.76	11.50	AE	AG

TORSION SPRINGS



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	IN.	MM	IN.	MM	IN.-LB.	KG-MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM		Music Wire	#302 Stainless
																M	S
LTL075M 08 LTR075M 08	1.348	34.25	.075	1.91	9.203	106.01	1.750	44.45	1 1/64 (1.016)	25.80	3.500	88.90	0.638	16.19	7.50	AG	AJ
LTL105Q 06 LTR105Q 06	1.369	34.77	.105	2.67	21.000	241.92	1.750	44.45	1 1/32 (1.031)	26.19	3.500	88.90	1.417	35.99	12.50	AG	AJ
LTL078N 08 LTR078N 08	1.390	35.30	.078	1.98	10.450	120.38	1.750	44.45	1 3/64 (1.047)	26.59	3.500	88.90	0.663	16.84	7.50	AJ	AK
LTL085N 08 LTR085N 08	1.412	35.85	.085	2.16	12.860	148.14	2.000	50.80	1 5/64 (1.078)	27.38	4.000	101.60	0.808	20.51	8.50	AJ	AK
LTL115R 06 LTR115R 06	1.465	37.21	.115	2.92	28.000	322.56	2.000	50.80	1 3/32 (1.094)	27.78	4.000	101.60	1.552	39.42	12.50	AJ	AK
LTL125S 06 LTR125S 06	1.605	40.77	.125	3.18	32.000	368.64	2.000	50.80	1 7/32 (1.219)	30.96	4.000	101.60	1.937	49.20	14.50	AK	AL
LTL095P 08 LTR095P 08	1.648	41.86	.095	2.41	17.140	197.44	2.000	50.80	1 1/4 (1.250)	31.75	4.000	101.60	0.903	22.92	8.50	AK	AL
LTL135T 06 LTR135T 06	1.755	44.58	.135	3.43	40.000	460.80	2.000	50.80	1 21/64 (1.328)	33.73	4.000	101.60	2.092	53.14	14.50	AL	AM
LTL105Q 08 LTR105Q 08	1.797	45.65	.105	2.67	21.000	241.90	2.000	50.80	1 3/8 (1.375)	34.93	4.000	101.60	1.103	28.00	9.50	AL	AM
LTL115R 08 LTR115R 08	1.941	49.31	.115	2.92	28.000	322.54	2.000	50.80	1 31/64 (1.484)	37.70	4.000	101.60	1.208	30.67	9.50	AL	AM
LTL125S 08 LTR125S 08	1.968	49.98	.125	3.18	32.000	368.62	2.000	50.80	1 33/64 (1.516)	38.50	4.000	101.60	1.563	39.69	11.50	AL	AM
LTL135T 08 LTR135T 08	2.141	54.37	.135	3.43	40.000	460.77	2.125	53.98	1 21/32 (1.656)	42.07	4.250	107.95	1.688	42.86	11.50	AL	AM

TORSION SPRINGS

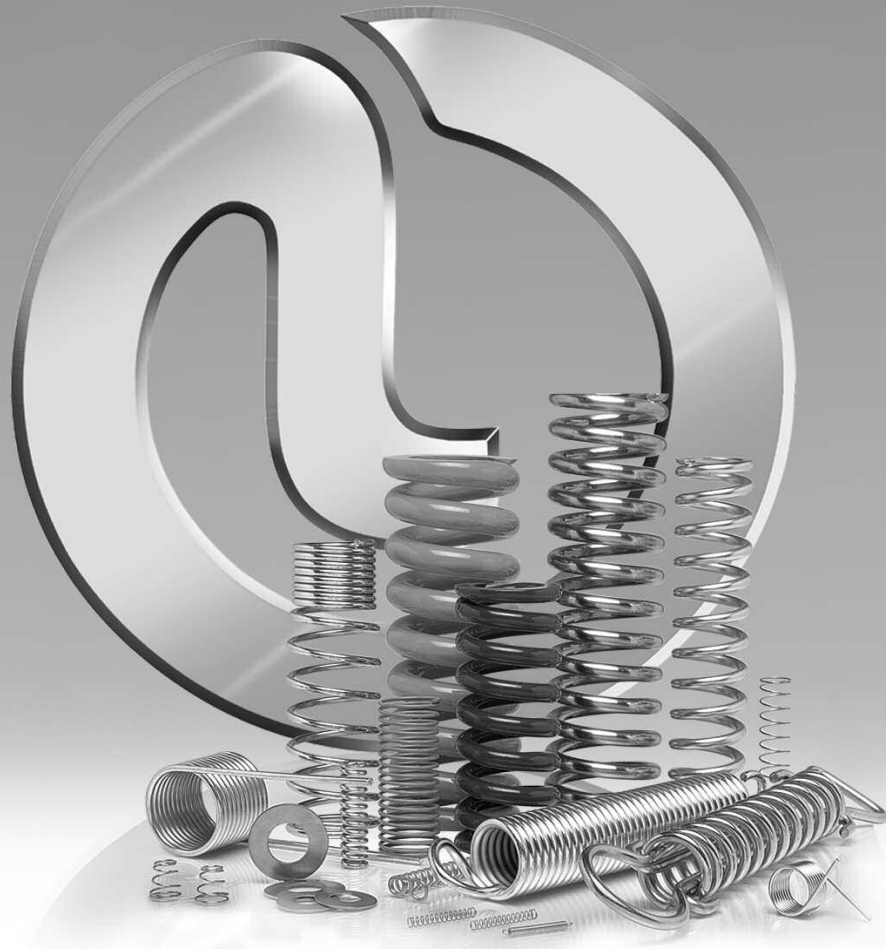
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