

Introduction

Our stock extension springs are designed and made to high precision standards and excellent for application for engineering designs, experimental, prototype, development and maintenance work.

Material

Music wire: EN 10270-1 DH or ASTM A228 or JIS G3522 SWP-A/B or DIN 17223 Class D.
Stainless steel: EN 10270-3 1.4310 or Type 302 per ASTM A313 or JIS G4314 SUS 302/304 or DIN 17224 1.4310.

Tolerances of wire diameters comply with DIN 2076.

Direction of Wind

Right hand

Stress Relief

All springs are thermally treated and relieve of coiling stress.

Surface Finish

Springs manufactured from music wire are slightly lubricated following thermal treatment. Springs manufactured from stainless steel wire are passivated.

Springs can be delivered with any additional standard surface protection for an extra charge (i.e. zinc coatings, nickel-plated, phosphate, black oxide etc.).

Operating Temperature

Music wire springs are not recommended for applications where temperature exceeds 120°C. Stainless steel springs are not recommended for applications where temperature exceeds 260°C.

For temperatures beyond these boundaries, a different material must be selected.

Loops

A full German loop on each end of the spring
Loop positions are at random.



Tolerances

Outside Diameter Size (mm)	Tolerance (mm)
1.59 – 2.50	+/- 0.10
2.51 – 7.59	+/- 0.13
7.60 – 12.70	+/- 0.20
12.71 – 21.59	+/- 0.38
21.60 – 28.58	+/- 0.51
28.59 – 30.94	+/- 0.64
30.95 – 37.08	+/- 0.76
37.09 – 42.85	+/- 1.02
49.20 – 50.80	+/- 1.40

Load P1 +/- 10%

Spring Rate k +/- 10%

Basic formula used in designing springs – Extension spring without initial tension.

$$\delta = \frac{8N_a D^3 P}{Gd^4} \quad \tau = \chi \tau_0$$

$$k = \frac{P}{\delta} = \frac{Gd^4}{8N_a D^3}$$

$$\tau_0 = \frac{8DP}{\pi d^3} \quad \tau_0 = \frac{Gd\delta}{\pi N_a D^2}$$

In case of extension spring with initial tension:-

$$\delta = \frac{8N_a D^3 (P - P_i)}{Gd^4} \quad \tau = \chi \tau_0$$

$$k = \frac{(P - P_i)}{\delta} = \frac{Gd^4}{8N_a D^3}$$

$$\tau_0 = \frac{8DP}{\pi d^3} \quad \tau_0 = \frac{Gd\delta}{\pi N_a D^2} + \tau_i$$

How to specify part number ?

For example, if you need part SSE-024B-3 and material is stainless steel. Please indicate SSE-024B-3S. If material is music wire, please indicate SSE-024B-3M.

Table 1: Meaning of Symbol

Symbol	Meaning	Unit
d	Wire diameter	mm
De	Outside diameter	mm
D	Mean diameter	mm
Na	Number of active turns	-
G	Modulus of elasticity	lb/in ² {N/mm ² }
P _i	Initial tension	lb {N}
P1/P	Load acting on spring	lb {N}
δ	Deflection of spring	mm
k	Spring rate	lb/in {N/mm}
τ ₀	Torsional stress	lb/in ² {N/mm ² }
τ	Corrected torsional	lb/in ² {N/mm ² }
τ _i	Initial stress	lb/in ² {N/mm ² }
χ	Stress correction factor	-
L ₀	Free Length	mm
L ₁	Extended Length	mm



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-007A-1			6.35	0.1753			11.74			0.250	1.001			0.462
SSE-007A-2			7.94	0.1210			15.76			0.313	0.691			0.620
SSE-007A-3	1.59	0.18	9.52	0.0930	0.1373	1.083	19.69	0.063	0.007	0.375	0.531	0.0309	0.243	0.775
SSE-007A-4			11.11	0.0755			23.64			0.438	0.431			0.931
SSE-007A-5			12.70	0.0632			27.66			0.500	0.361			1.089
SSE-008A-1			6.35	0.3504			10.05			0.250	2.001			0.396
SSE-008A-2			7.94	0.2454			13.23			0.313	1.401			0.521
SSE-008A-3			9.52	0.1928			16.25			0.375	1.101			0.640
SSE-008A-4	1.59	0.20	11.11	0.1543	0.1765	1.474	19.52	0.063	0.008	0.438	0.881	0.0397	0.331	0.769
SSE-008A-5			12.70	0.1298			22.70			0.500	0.741			0.894
SSE-008A-6			15.88	0.1000			28.86			0.625	0.571			1.136
SSE-008A-7			19.05	0.0807			35.13			0.750	0.461			1.383
SSE-009A-1			6.35	0.6481			9.28			0.250	3.701			0.365
SSE-009A-2			7.94	0.4730			11.96			0.313	2.701			0.471
SSE-009A-3			9.52	0.3676			14.69			0.375	2.099			0.578
SSE-009A-4	1.59	0.23	11.11	0.2979	0.2648	2.165	17.49	0.063	0.009	0.438	1.701	0.0595	0.487	0.689
SSE-009A-5			12.70	0.2454			20.44			0.500	1.401			0.805
SSE-009A-6			15.88	0.1928			25.73			0.625	1.101			1.013
SSE-009A-7			19.05	0.1508			31.65			0.750	0.861			1.246
SSE-010B-1			9.52	0.2103			17.50			0.375	1.201			0.689
SSE-010B-2			11.11	0.1648			21.29			0.438	0.941			0.838
SSE-010B-3			12.70	0.1333			25.29			0.500	0.761			0.996
SSE-010B-4	2.38	0.25	15.88	0.0982	0.2255	1.903	32.96	0.094	0.010	0.625	0.561	0.0507	0.428	1.298
SSE-010B-5			19.05	0.0772			40.77			0.750	0.441			1.605
SSE-010B-6			22.22	0.0629			48.91			0.875	0.359			1.925
SSE-010B-7			25.40	0.0541			56.41			1.000	0.309			2.221
SSE-011B-1			9.52	0.3504			16.20			0.375	2.001			0.638
SSE-011B-2			11.11	0.2681			19.84			0.438	1.531			0.781
SSE-011B-3			12.70	0.2205			23.32			0.500	1.259			0.918
SSE-011B-4	2.38	0.28	15.88	0.1627	0.3138	2.655	30.27	0.094	0.011	0.625	0.929	0.0705	0.597	1.192
SSE-011B-5			19.05	0.1280			37.33			0.750	0.731			1.470
SSE-011B-6			22.22	0.1053			44.46			0.875	0.601			1.750
SSE-011B-7			25.40	0.0904			51.30			1.000	0.516			2.020
SSE-012B-1			9.52	0.5606			14.39			0.375	3.201			0.567
SSE-012B-2			11.11	0.4205			17.61			0.438	2.401			0.693
SSE-012B-3			12.70	0.3504			20.49			0.500	2.001			0.807
SSE-012B-4	2.38	0.30	15.88	0.2629	0.4413	3.173	26.27	0.094	0.012	0.625	1.501	0.099	0.713	1.034
SSE-012B-5			19.05	0.2103			32.04			0.750	1.201			1.261
SSE-012B-6			22.22	0.1683			38.45			0.875	0.961			1.514
SSE-012B-7			25.40	0.1438			44.40			1.000	0.821			1.748

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-013B-1			9.52	0.8408			13.81			0.375	4.801			0.544
SSE-013B-2			11.11	0.6481			16.67			0.438	3.701			0.656
SSE-013B-3			12.70	0.5431			19.34			0.500	3.101			0.761
SSE-013B-4	2.38	0.33	15.88	0.3960	0.5827	4.189	24.99	0.094	0.013	0.625	2.261	0.131	0.942	0.984
SSE-013B-5			19.05	0.3154			30.48			0.750	1.801			1.200
SSE-013B-6			22.22	0.2629			35.94			0.875	1.501			1.415
SSE-013B-7			25.40	0.2226			41.60			1.000	1.271			1.638
SSE-014B-1			9.52	1.2436			13.25			0.375	7.101			0.522
SSE-014B-2			11.11	0.9634			15.93			0.438	5.501			0.627
SSE-014B-3			12.70	0.8058			18.46			0.500	4.601			0.727
SSE-014B-4	2.38	0.36	15.88	0.5956	0.7517	5.392	23.67	0.094	0.014	0.625	3.401	0.169	1.212	0.932
SSE-014B-5			19.05	0.4730			28.86			0.750	2.701			1.136
SSE-014B-6			22.22	0.3855			34.26			0.875	2.201			1.349
SSE-014B-7			25.40	0.3329			39.34			1.000	1.901			1.549
SSE-025036-1			5.30	3.1739			6.68			0.209	18.123			0.263
SSE-025036-2			6.80	1.8379			9.18			0.268	10.495			0.361
SSE-025036-3	2.50	0.36	8.90	1.1259	0.7845	5.159	12.79	0.098	0.014	0.350	6.429	0.176	1.160	0.503
SSE-025036-4			12.20	0.7129			18.34			0.480	4.071			0.722
SSE-025036-5			17.60	0.4419			27.50			0.693	2.523			1.083
SSE-025036-6			24.80	0.2929			39.73			0.976	1.673			1.564
SSE-025050-1			7.90	7.9810			9.21			0.311	45.573			0.363
SSE-025050-2	2.50	0.50	10.90	4.9810	2.4517	12.909	13.00	0.098	0.020	0.429	28.442	0.551	2.902	0.512
SSE-025050-3			15.40	3.1910			18.68			0.606	18.221			0.735
SSE-027020-1			6.20	0.0911			15.15			0.244	0.520			0.596
SSE-027020-2			8.80	0.0431			27.71			0.346	0.246			1.091
SSE-027020-3	2.70	0.20	11.80	0.0261	0.0785	0.893	43.03	0.106	0.008	0.465	0.149	0.018	0.201	1.694
SSE-027020-4			18.50	0.0151			72.47			0.728	0.086			2.853
SSE-027020-5			24.50	0.0101			105.19			0.965	0.058			4.141
SSE-028025-1			6.80	0.2211			13.91			0.268	1.263			0.548
SSE-028025-2			10.10	0.1071			24.78			0.398	0.612			0.975
SSE-028025-3			13.80	0.0641			38.32			0.543	0.366			1.509
SSE-028025-4	2.75	0.25	15.60	0.0549	0.0883	1.660	44.23	0.108	0.010	0.614	0.313	0.020	0.373	1.741
SSE-028025-5			17.30	0.0479			50.11			0.681	0.274			1.973
SSE-028025-6			19.30	0.0409			57.73			0.760	0.234			2.273
SSE-028025-7			21.30	0.0371			63.67			0.839	0.212			2.507
SSE-028025-8			23.30	0.0331			70.79			0.917	0.189			2.787
SSE-028032-1			7.60	0.5939			12.62			0.299	3.391			0.497
SSE-028032-2			11.80	0.2789			22.49			0.465	1.593			0.885
SSE-028032-3			16.60	0.1729			33.84			0.654	0.987			1.332
SSE-028032-4	2.82	0.32	18.90	0.1469	0.2942	3.275	39.19	0.110	0.013	0.744	0.839	0.066	0.736	1.543
SSE-028032-5			21.10	0.1279			44.40			0.831	0.730			1.748
SSE-028032-6			23.70	0.1109			50.57			0.933	0.633			1.991
SSE-028032-7			26.20	0.0979			56.64			1.031	0.559			2.230
SSE-028032-8			28.80	0.0879			62.71			1.134	0.502			2.469

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-028055-1			8.80	8.1802			10.29			0.346	46.710			0.405
SSE-028055-2	2.80	0.55	12.10	5.1102	2.8439	15.015	14.48	0.110	0.022	0.476	29.180	0.639	3.376	0.570
SSE-028055-3			17.00	3.2702			20.72			0.669	18.673			0.816
SSE-029040-1			8.50	1.4511			12.19			0.335	8.286			0.480
SSE-029040-2			13.70	0.6809			21.56			0.539	3.888			0.849
SSE-029040-3			19.70	0.4231			32.35			0.776	2.416			1.273
SSE-029040-4	2.90	0.40	22.60	0.3589	0.7747	6.125	37.51	0.114	0.016	0.890	2.049	0.174	1.377	1.477
SSE-029040-5			25.30	0.3119			42.46			0.996	1.781			1.671
SSE-029040-6			28.50	0.2709			48.25			1.122	1.547			1.900
SSE-029040-7			31.70	0.2399			54.00			1.248	1.370			2.126
SSE-029040-8			34.90	0.2149			59.80			1.374	1.227			2.354
SSE-030020-1			8.60	0.0359			29.44			0.339	0.205			1.159
SSE-030020-2	3.00	0.20	13.00	0.0169	0.0588	0.807	57.27	0.118	0.008	0.512	0.097	0.013	0.181	2.255
SSE-030020-3			17.40	0.0119			80.27			0.685	0.068			3.160
SSE-030020-4			21.80	0.0089			105.86			0.858	0.051			4.168
SSE-030063-1			9.70	12.1003			11.10			0.382	69.094			0.437
SSE-030063-2	3.00	0.63	13.50	7.5102	3.8246	20.796	15.76	0.118	0.025	0.531	42.884	0.860	4.675	0.620
SSE-030063-3			19.20	4.8090			22.73			0.756	27.460			0.895
SSE-014A-1			12.70	0.3504			22.57			0.500	2.001			0.889
SSE-014A-2			14.29	0.2888			26.27			0.563	1.649			1.034
SSE-014A-3			15.88	0.2450			30.00			0.625	1.399			1.181
SSE-014A-4			19.05	0.1890			37.35			0.750	1.079			1.471
SSE-014A-5			20.64	0.1697			41.02			0.813	0.969			1.615
SSE-014A-6	3.18	0.36	22.22	0.1539	0.5296	3.989	44.70	0.125	0.014	0.875	0.879	0.119	0.897	1.760
SSE-014A-7			23.81	0.1417			48.22			0.938	0.809			1.898
SSE-014A-8			25.40	0.1312			51.77			1.000	0.749			2.038
SSE-014A-9			28.58	0.1126			59.30			1.125	0.643			2.335
SSE-014A-10			31.75	0.0989			66.73			1.250	0.565			2.627
SSE-014A-11			34.92	0.0882			74.14			1.375	0.504			2.919
SSE-014A-12			38.10	0.0797			81.50			1.500	0.455			3.209
SSE-016A-002			12.70	0.7178			19.70			0.500	4.099			0.776
SSE-016A-001			15.88	0.5007			25.91			0.625	2.859			1.020
SSE-016A-00			19.05	0.3676			32.72			0.750	2.099			1.288
SSE-016A-0			22.22	0.3063			38.62			0.875	1.749			1.521
SSE-016A-1			25.40	0.2625			44.54			1.000	1.499			1.753
SSE-016A-2	3.18	0.41	28.58	0.2275	0.8826	5.907	50.66	0.125	0.016	1.125	1.299	0.198	1.328	1.995
SSE-016A-3			31.75	0.2100			55.67			1.250	1.199			2.192
SSE-016A-4			34.92	0.1750			63.63			1.375	0.999			2.505
SSE-016A-5			38.10	0.1575			70.00			1.500	0.899			2.756
SSE-016A-6			44.45	0.1365			81.26			1.750	0.779			3.199
SSE-016A-7			50.80	0.1182			93.30			2.000	0.675			3.673

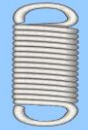
Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-018A-002			12.70	1.3273			17.92			0.500	7.579			0.705
SSE-018A-001			15.88	0.9367			23.28			0.625	5.349			0.916
SSE-018A-00			19.05	0.7003			28.94			0.750	3.999			1.139
SSE-018A-0			22.22	0.5777			34.21			0.875	3.299			1.347
SSE-018A-1			25.40	0.5077			39.04			1.000	2.899			1.537
SSE-018A-2	3.18	0.46	28.58	0.4376	1.3288	8.256	44.41	0.125	0.018	1.125	2.499	0.299	1.856	1.748
SSE-018A-3			31.75	0.3851			49.74			1.250	2.199			1.958
SSE-018A-4			34.92	0.3501			54.71			1.375	1.999			2.154
SSE-018A-5			38.10	0.3150			60.09			1.500	1.799			2.366
SSE-018A-6			44.45	0.2625			70.84			1.750	1.499			2.789
SSE-018A-7			50.80	0.2275			81.25			2.000	1.299			3.199
SSE-018A-8			57.15	0.1977			92.19			2.250	1.129			3.630
SSE-020A-002			12.70	2.3429			16.58			0.500	13.378			0.653
SSE-020A-001			15.88	1.6499			21.38			0.625	9.421			0.842
SSE-020A-00			19.05	1.3137			25.96			0.750	7.501			1.022
SSE-020A-0			22.22	1.0506			30.86			0.875	5.999			1.215
SSE-020A-1			25.40	0.8929			35.57			1.000	5.099			1.400
SSE-020A-2	3.18	0.51	28.58	0.7704	1.7750	10.855	40.37	0.125	0.020	1.125	4.399	0.399	2.440	1.589
SSE-020A-3			31.75	0.6828			45.05			1.250	3.899			1.774
SSE-020A-4			34.92	0.6127			49.74			1.375	3.499			1.958
SSE-020A-5			38.10	0.5603			54.31			1.500	3.199			2.138
SSE-020A-6			44.45	0.4726			63.66			1.750	2.699			2.506
SSE-020A-7			50.80	0.4026			73.35			2.000	2.299			2.888
SSE-020A-8			57.15	0.3501			83.09			2.250	1.999			3.271
SSE-022A-1			15.88	2.8194			20.22			0.625	16.099			0.796
SSE-022A-2			19.05	2.1714			24.69			0.750	12.399			0.972
SSE-022A-3			22.22	1.7862			29.07			0.875	10.199			1.145
SSE-022A-4			25.40	1.5235			33.43			1.000	8.699			1.316
SSE-022A-5			28.58	1.3133			37.90			1.125	7.499			1.492
SSE-022A-6	3.18	0.56	31.75	1.1557	1.9613	14.198	42.34	0.125	0.022	1.250	6.599	0.441	3.192	1.667
SSE-022A-7			34.92	1.0506			46.57			1.375	5.999			1.833
SSE-022A-8			38.10	0.9455			51.04			1.500	5.399			2.010
SSE-022A-9			44.45	0.7879			59.98			1.750	4.499			2.361
SSE-022A-10			50.80	0.6829			68.72			2.000	3.899			2.705
SSE-022A-11			57.15	0.5988			77.59			2.250	3.419			3.055
SSE-022A-12			63.50	0.5340			86.42			2.500	3.049			3.402
SSE-035025-1			7.90	0.1061			19.38			0.311	0.606			0.763
SSE-035025-2	3.45	0.25	11.20	0.0501	0.1177	1.336	35.51	0.136	0.010	0.441	0.286	0.026	0.300	1.398
SSE-035025-3			15.00	0.0309			54.42			0.591	0.176			2.142
SSE-035025-4			18.40	0.0229			71.59			0.724	0.131			2.818

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		
						Load P1	Extended Length Lt						Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-035032-1			8.70	0.2831			17.29				0.343	1.617			0.681
SSE-035032-2			12.90	0.1331			31.16				0.508	0.760			1.227
SSE-035032-3			17.70	0.0829			47.02				0.697	0.473			1.851
SSE-035032-4	3.52	0.32	20.00	0.0701	0.2256	2.657	54.68	0.138	0.013		0.787	0.400	0.051	0.597	2.153
SSE-035032-5			21.90	0.0619			61.17				0.862	0.353			2.408
SSE-035032-6			24.80	0.0531			70.58				0.976	0.303			2.779
SSE-035032-7			27.30	0.0471			78.91				1.075	0.269			3.107
SSE-035032-8			29.90	0.0421			87.64				1.177	0.240			3.451
SSE-035050-1			9.50	2.3499			12.82				0.374	13.418			0.505
SSE-035050-2			12.50	1.4699			17.81				0.492	8.393			0.701
SSE-035050-3	3.50	0.50	17.00	0.9399	1.8436	9.645	25.30	0.138	0.020		0.669	5.367	0.414	2.168	0.996
SSE-035050-4			24.50	0.5899			37.72				0.965	3.368			1.485
SSE-035050-5			290.00	0.0404			483.24				11.417	0.231			19.025
SSE-035055-1			9.90	3.6295			12.67				0.390	20.725			0.499
SSE-035055-2	3.50	0.55	13.20	2.2695	2.3536	12.400	17.63	0.138	0.022		0.520	12.959	0.529	2.788	0.694
SSE-035055-3			18.10	1.4498			25.03				0.713	8.279			0.985
SSE-035055-4			26.40	0.9003			37.56				1.039	5.141			1.479
SSE-035070-1			11.10	11.0990			12.86				0.437	63.377			0.506
SSE-035070-2	3.50	0.70	15.30	6.9503	4.5111	24.067	18.11	0.138	0.028		0.602	39.687	1.014	5.410	0.713
SSE-035070-3			21.60	4.4402			26.00				0.850	25.354			1.024
SSE-035070-4			32.10	2.8587			38.94				1.264	16.324			1.533
SSE-036040-1			9.60	0.6918			16.21				0.378	3.950			0.638
SSE-036040-2			14.80	0.3248			28.89				0.583	1.855			1.137
SSE-036040-3			20.80	0.2008			43.59				0.819	1.147			1.716
SSE-036040-4	3.60	0.40	23.70	0.1708	0.4413	5.017	50.49	0.142	0.016		0.933	0.975	0.099	1.128	1.988
SSE-036040-5			26.50	0.1488			57.25				1.043	0.850			2.254
SSE-036040-6			29.70	0.1288			65.22				1.169	0.735			2.568
SSE-036040-7			32.90	0.1148			72.76				1.295	0.656			2.864
SSE-036040-8			36.10	0.1031			80.48				1.421	0.589			3.168
SSE-037050-1			10.80	1.6898			15.57				0.425	9.649			0.613
SSE-037050-2			17.30	0.7928			27.47				0.681	4.527			1.081
SSE-037050-3			24.80	0.4918			41.19				0.976	2.808			1.622
SSE-037050-4	3.70	0.50	28.30	0.4178	1.1082	9.170	47.60	0.146	0.020		1.114	2.386	0.249	2.062	1.874
SSE-037050-5			31.80	0.3628			54.02				1.252	2.072			2.127
SSE-037050-6			35.80	0.3158			61.33				1.409	1.803			2.415
SSE-037050-7			39.80	0.2798			68.61				1.567	1.598			2.701
SSE-037050-8			43.80	0.2508			75.95				1.724	1.432			2.990

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-038063-1			12.30	4.3808			15.74			0.484	25.015			0.620
SSE-038063-2			20.40	2.0558			27.73			0.803	11.739			1.092
SSE-038063-3			29.90	1.2748			41.72			1.177	7.279			1.642
SSE-038063-4	3.80	0.63	34.30	1.0828	1.9907	17.055	48.21	0.150	0.025	1.350	6.183	0.448	3.834	1.898
SSE-038063-5			38.70	0.9418			54.69			1.524	5.378			2.153
SSE-038063-6			43.80	0.8188			62.20			1.724	4.675			2.449
SSE-038063-7			48.80	0.7248			69.58			1.921	4.139			2.740
SSE-038063-8			53.90	0.6498			77.08			2.122	3.710			3.035
SSE-012AB-1			12.00	0.1036			28.85			0.472	0.592			1.136
SSE-012AB-2			13.50	0.0781			35.85			0.531	0.446			1.412
SSE-012AB-3			15.80	0.0567			46.59			0.622	0.324			1.834
SSE-012AB-4	4.00	0.30	19.60	0.0391	0.1961	1.942	64.25	0.157	0.012	0.772	0.223	0.044	0.437	2.530
SSE-012AB-5			24.50	0.0279			87.07			0.965	0.159			3.428
SSE-012AB-6			30.00	0.0211			112.74			1.181	0.120			4.439
SSE-012AB-7			40.00	0.0146			159.58			1.575	0.083			6.283
SSE-014AB-1			12.70	0.2297			25.28			0.500	1.312			0.995
SSE-014AB-2			14.40	0.1749			30.92			0.567	0.999			1.217
SSE-014AB-3			17.20	0.1255			40.22			0.677	0.717			1.583
SSE-014AB-4	4.00	0.36	21.80	0.0858	0.4413	3.330	55.47	0.157	0.014	0.858	0.490	0.099	0.749	2.184
SSE-014AB-5			27.80	0.0607			75.39			1.094	0.347			2.968
SSE-014AB-6			35.00	0.0449			99.34			1.378	0.256			3.911
SSE-014AB-7			45.00	0.0330			132.54			1.772	0.188			5.218
SSE-016AB-1			13.20	0.3633			23.79			0.520	2.074			0.937
SSE-016AB-2			15.20	0.2725			29.32			0.598	1.556			1.154
SSE-016AB-3			18.40	0.1946			38.17			0.724	1.111			1.503
SSE-016AB-4	4.00	0.40	23.60	0.1329	0.6963	4.544	52.55	0.157	0.016	0.929	0.759	0.157	1.021	2.069
SSE-016AB-5			30.40	0.0940			71.33			1.197	0.537			2.808
SSE-016AB-6			38.00	0.0708			92.34			1.496	0.404			3.635
SSE-016AB-7			48.00	0.0535			119.91			1.890	0.305			4.721
SSE-020AB-1			13.40	1.1311			19.63			0.528	6.459			0.773
SSE-020AB-2			15.70	0.8321			24.17			0.618	4.751			0.952
SSE-020AB-3			18.40	0.6350			29.50			0.724	3.626			1.161
SSE-020AB-4	4.00	0.50	23.60	0.4361	1.4906	8.537	39.76	0.157	0.020	0.929	2.490	0.335	1.919	1.565
SSE-020AB-5			30.40	0.3094			53.18			1.197	1.767			2.094
SSE-020AB-6			38.40	0.2305			68.97			1.512	1.316			2.715
SSE-020AB-7			48.00	0.1766			87.90			1.890	1.008			3.461
SSE-020AB-8			60.00	0.1366			111.59			2.362	0.780			4.393
SSE-022AB-1			15.80	1.2454			23.75			0.622	7.111			0.935
SSE-022AB-2			19.00	0.9120			29.86			0.748	5.208			1.176
SSE-022AB-3			25.40	0.6374			40.94			1.000	3.640			1.612
SSE-022AB-4	4.00	0.56	29.00	0.5296	1.6867	11.590	47.70	0.157	0.022	1.142	3.024	0.379	2.605	1.878
SSE-022AB-5			34.50	0.4217			57.98			1.358	2.408			2.283
SSE-022AB-6			40.00	0.3530			68.05			1.575	2.016			2.679
SSE-022AB-7			50.00	0.2746			86.06			1.969	1.568			3.388

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-031AB-1			12.60	12.7002			14.61			0.496	72.520			0.575
SSE-031AB-2	4.00	0.80	17.40	7.9990	5.8840	31.434	20.59	0.157	0.031	0.685	45.675	1.323	7.067	0.811
SSE-031AB-3			24.60	5.0990			29.61			0.969	29.116			1.166
SSE-045050-1			12.10	0.8649			19.93			0.476	4.939			0.785
SSE-045050-2			18.60	0.4059			35.28			0.732	2.318			1.389
SSE-045050-3			26.10	0.2519			52.97			1.028	1.438			2.086
SSE-045050-4	4.50	0.50	29.60	0.2139	0.8826	7.652	61.25	0.177	0.020	1.165	1.221	0.198	1.720	2.411
SSE-045050-5			33.10	0.1859			69.51			1.303	1.062			2.737
SSE-045050-6			37.10	0.1621			78.86			1.461	0.926			3.105
SSE-045050-7			41.10	0.1429			88.47			1.618	0.816			3.483
SSE-045050-8			45.10	0.1279			98.03			1.776	0.730			3.859
SSE-045063-1			12.10	2.7699			16.76			0.476	15.817			0.660
SSE-045063-2			15.90	1.7299			23.36			0.626	9.878			0.920
SSE-045063-3	4.50	0.63	21.60	1.1099	1.7652	14.668	33.23	0.177	0.025	0.850	6.338	0.397	3.298	1.308
SSE-045063-4			31.00	0.6999			49.44			1.220	3.997			1.946
SSE-045063-5			40.00	0.5272			64.47			1.575	3.010			2.538
SSE-045063-6			50.00	0.4024			82.07			1.969	2.298			3.231
SSE-045090-1			14.20	14.3010			16.58			0.559	81.661			0.653
SSE-045090-2			19.60	8.9590			23.40			0.772	51.157			0.921
SSE-045090-3	4.50	0.90	27.70	5.7305	4.7072	38.764	33.64	0.177	0.035	1.091	32.722	1.058	8.714	1.325
SSE-045090-4			41.20	3.6971			50.41			1.622	21.111			1.985
SSE-045090-5			59.20	2.4174			73.29			2.331	13.804			2.885
SSE-048036-1			15.88	0.0926			43.31			0.625	0.529			1.705
SSE-048036-2			22.22	0.0492			73.85			0.875	0.281			2.908
SSE-048036-3			25.40	0.0401			88.75			1.000	0.229			3.494
SSE-048036-4			28.58	0.0335			104.40			1.125	0.191			4.110
SSE-048036-5			31.75	0.0296			117.57			1.250	0.169			4.629
SSE-048036-6			34.93	0.0259			133.00			1.375	0.148			5.236
SSE-048036-7	4.76	0.36	38.10	0.0226	0.1779	2.718	150.50	0.188	0.014	1.500	0.129	0.040	0.611	5.925
SSE-048036-8			41.28	0.0208			163.40			1.625	0.119			6.433
SSE-048036-9			44.45	0.0191			177.45			1.750	0.109			6.986
SSE-048036-10			47.63	0.0173			194.46			1.875	0.099			7.656
SSE-048036-11			50.80	0.0156			213.64			2.000	0.089			8.411
SSE-048036-12			57.15	0.0138			241.23			2.250	0.079			9.497
SSE-048036-13			63.50	0.0123			270.02			2.500	0.070			10.631

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-016B-1			15.88	0.1820			35.56			0.625	1.039			1.400
SSE-016B-2			22.22	0.0994			58.25			0.875	0.568			2.293
SSE-016B-3			25.40	0.0804			69.96			1.000	0.459			2.754
SSE-016B-4			28.58	0.0680			81.25			1.125	0.388			3.199
SSE-016B-5			31.75	0.0592			92.25			1.250	0.338			3.632
SSE-016B-6			34.93	0.0524			103.33			1.375	0.299			4.068
SSE-016B-7	4.76	0.41	38.10	0.0456	0.3559	3.938	116.65	0.188	0.016	1.500	0.260	0.080	0.885	4.592
SSE-016B-8			41.28	0.0419			126.85			1.625	0.239			4.994
SSE-016B-9			44.45	0.0384			137.84			1.750	0.219			5.427
SSE-016B-10			47.63	0.0349			150.40			1.875	0.199			5.921
SSE-016B-11			50.80	0.0319			163.08			2.000	0.182			6.420
SSE-016B-12			57.15	0.0279			185.53			2.250	0.159			7.304
SSE-016B-13			63.50	0.0244			210.29			2.500	0.139			8.279
SSE-018B-1			15.88	0.3326			31.10			0.625	1.899			1.224
SSE-018B-2			22.22	0.1837			49.77			0.875	1.049			1.960
SSE-018B-3			25.40	0.1504			59.05			1.000	0.859			2.325
SSE-018B-4			28.58	0.1277			68.21			1.125	0.729			2.686
SSE-018B-5			31.75	0.1102			77.68			1.250	0.629			3.058
SSE-018B-6			34.93	0.0971			87.05			1.375	0.554			3.427
SSE-018B-7	4.76	0.46	38.10	0.0874	0.6178	5.679	96.01	0.188	0.018	1.500	0.499	0.139	1.277	3.780
SSE-018B-8			41.28	0.0786			105.67			1.625	0.449			4.160
SSE-018B-9			44.45	0.0716			115.14			1.750	0.409			4.533
SSE-018B-10			47.63	0.0666			123.62			1.875	0.380			4.867
SSE-018B-11			50.80	0.0611			133.64			2.000	0.349			5.261
SSE-018B-12			57.15	0.0531			152.47			2.250	0.303			6.003
SSE-018B-13			63.50	0.0472			170.73			2.500	0.270			6.722
SSE-020B-1			15.88	0.5777			27.17			0.625	3.299			1.070
SSE-020B-2			22.22	0.3151			42.93			0.875	1.799			1.690
SSE-020B-3			25.40	0.2625			50.25			1.000	1.499			1.978
SSE-020B-4			28.58	0.2275			57.26			1.125	1.299			2.254
SSE-020B-5			31.75	0.1925			65.65			1.250	1.099			2.584
SSE-020B-6			34.93	0.1697			73.37			1.375	0.969			2.889
SSE-020B-7	4.76	0.51	38.10	0.1522	0.9831	7.507	80.97	0.188	0.020	1.500	0.869	0.221	1.688	3.188
SSE-020B-8			41.28	0.1382			88.49			1.625	0.789			3.484
SSE-020B-9			44.45	0.1259			96.26			1.750	0.719			3.790
SSE-020B-10			47.63	0.1154			104.16			1.875	0.659			4.101
SSE-020B-11			50.80	0.1067			111.97			2.000	0.609			4.408
SSE-020B-12			57.15	0.0930			127.30			2.250	0.531			5.012
SSE-020B-13			63.50	0.0821			142.93			2.500	0.469			5.627

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-022B-002			12.70	1.5234			18.30			0.500	8.699			0.721
SSE-022B-001			15.88	0.9455			24.91			0.625	5.399			0.981
SSE-022B-000			19.05	0.6653			31.88			0.750	3.799			1.255
SSE-022B-0			22.22	0.5602			37.46			0.875	3.199			1.475
SSE-022B-1			25.40	0.4376			44.91			1.000	2.499			1.768
SSE-022B-2			28.58	0.3679			51.79			1.125	2.101			2.039
SSE-022B-3	4.76	0.56	31.75	0.3151	1.3389	9.878	58.85	0.188	0.022	1.250	1.799	0.301	2.221	2.317
SSE-022B-4			34.93	0.2800			65.41			1.375	1.599			2.575
SSE-022B-5			38.10	0.2450			72.95			1.500	1.399			2.872
SSE-022B-6			44.45	0.2100			85.11			1.750	1.199			3.351
SSE-022B-7			50.80	0.1750			99.61			2.000	0.999			3.921
SSE-022B-8			57.15	0.1557			111.99			2.250	0.889			4.409
SSE-022B-9			63.50	0.1364			126.09			2.500	0.779			4.964
SSE-024B-1			15.88	1.4888			23.21			0.625	8.501			0.914
SSE-024B-2			17.46	1.2600			26.12			0.687	7.195			1.028
SSE-024B-3			19.05	1.0506			29.43			0.750	5.999			1.159
SSE-024B-4			20.64	0.9266			32.41			0.813	5.291			1.276
SSE-024B-5			22.22	0.8404			35.20			0.875	4.799			1.386
SSE-024B-6			23.81	0.7529			38.30			0.938	4.299			1.508
SSE-024B-7			25.40	0.7003			40.98			1.000	3.999			1.613
SSE-024B-8	4.76	0.61	28.58	0.5883	1.7750	12.685	47.13	0.188	0.024	1.125	3.359	0.399	2.852	1.855
SSE-024B-9			31.75	0.5094			53.16			1.250	2.909			2.093
SSE-024B-10			34.93	0.4509			59.12			1.375	2.575			2.328
SSE-024B-11			38.10	0.4026			65.20			1.500	2.299			2.567
SSE-024B-12			44.45	0.3326			77.25			1.750	1.899			3.042
SSE-024B-13			50.80	0.2835			89.28			2.000	1.619			3.515
SSE-024B-14			57.15	0.2485			101.05			2.250	1.419			3.978
SSE-024B-15			63.50	0.2205			112.98			2.500	1.259			4.448
SSE-026B-002			12.70	3.5899			16.42			0.500	20.499			0.646
SSE-026B-001			15.88	2.2110			21.91			0.625	12.625			0.863
SSE-026B-000			19.05	1.6621			27.08			0.750	9.491			1.066
SSE-026B-0			22.22	1.2958			32.52			0.875	7.399			1.280
SSE-026B-1			25.40	1.0681			37.89			1.000	6.099			1.492
SSE-026B-2			28.58	0.8930			43.52			1.125	5.099			1.713
SSE-026B-3	4.76	0.66	31.75	0.7879	2.2163	15.559	48.68	0.188	0.026	1.250	4.499	0.498	3.498	1.917
SSE-026B-4			34.93	0.7003			53.98			1.375	3.999			2.125
SSE-026B-5			38.10	0.6128			59.87			1.500	3.499			2.357
SSE-026B-6			44.45	0.5077			70.73			1.750	2.899			2.785
SSE-026B-7			50.80	0.4362			81.39			2.000	2.491			3.204
SSE-026B-8			57.15	0.3851			91.80			2.250	2.199			3.614
SSE-026B-9			63.50	0.3378			103.00			2.500	1.929			4.055

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-029B-1			15.88	3.9220			20.56			0.625	22.395			0.809
SSE-029B-2			17.46	3.3586			22.92			0.688	19.178			0.903
SSE-029B-3			19.05	2.9418			25.29			0.750	16.798			0.996
SSE-029B-4			20.64	2.6092			27.67			0.813	14.899			1.089
SSE-029B-5			22.22	2.2940			30.22			0.875	13.099			1.190
SSE-029B-6			23.81	2.1013			32.54			0.938	11.999			1.281
SSE-029B-7			25.40	1.9262			34.93			1.000	10.999			1.375
SSE-029B-8	4.76	0.74	28.58	1.6250	3.3273	21.678	39.87	0.188	0.029	1.125	9.279	0.748	4.873	1.570
SSE-029B-9			31.75	1.4166			44.70			1.250	8.089			1.760
SSE-029B-10			34.93	1.2555			49.55			1.375	7.169			1.951
SSE-029B-11			38.10	1.1276			54.37			1.500	6.439			2.141
SSE-029B-12			44.45	0.9333			64.11			1.750	5.329			2.524
SSE-029B-13			50.80	0.7984			73.78			2.000	4.559			2.905
SSE-029B-14			57.15	0.7021			83.29			2.250	4.009			3.279
SSE-029B-15			63.50	0.6198			93.11			2.500	3.539			3.666
SSE-031B-002			12.70	9.1064			15.13			0.500	51.999			0.596
SSE-031B-001			15.88	5.5548			19.87			0.625	31.719			0.782
SSE-031B-00			19.05	4.2204			24.30			0.750	24.099			0.957
SSE-031B-0			22.22	3.3272			28.88			0.875	18.999			1.137
SSE-031B-1			25.40	2.7668			33.41			1.000	15.799			1.315
SSE-031B-2			28.58	2.3640			37.96			1.125	13.499			1.494
SSE-031B-3	4.76	0.79	31.75	2.0488	3.9990	26.171	42.57	0.188	0.031	1.250	11.699	0.899	5.883	1.676
SSE-031B-4			34.93	1.8211			47.10			1.375	10.399			1.855
SSE-031B-5			38.10	1.6110			51.86			1.500	9.199			2.042
SSE-031B-6			44.45	1.3487			60.89			1.750	7.701			2.397
SSE-031B-7			50.80	1.1557			69.99			2.000	6.599			2.755
SSE-031B-8			57.15	0.9980			79.37			2.250	5.699			3.125
SSE-031B-9			63.50	0.8930			88.33			2.500	5.099			3.478
SSE-031B-10			69.85	0.7879			97.99			2.750	4.499			3.858
SSE-034B-1			15.88	9.3341			18.96			0.625	53.299			0.746
SSE-034B-2			19.05	7.0049			23.15			0.750	39.999			0.911
SSE-034B-3			22.22	5.4288			27.51			0.875	30.999			1.083
SSE-034B-4			25.40	4.5531			31.71			1.000	25.999			1.248
SSE-034B-5			28.58	3.9227			35.90			1.125	22.399			1.414
SSE-034B-6			31.75	3.3798			40.25			1.250	19.299			1.585
SSE-034B-7	4.76	0.86	34.93	3.0120	3.7854	32.516	44.47	0.188	0.034	1.375	17.199	0.851	7.310	1.751
SSE-034B-8			38.10	2.7143			48.69			1.500	15.499			1.917
SSE-034B-9			44.45	2.2590			57.17			1.750	12.899			2.251
SSE-034B-10			50.80	1.9262			65.72			2.000	10.999			2.587
SSE-034B-11			57.15	1.6810			74.24			2.250	9.599			2.923
SSE-034B-12			63.50	1.4884			82.80			2.500	8.499			3.260
SSE-034B-13			69.85	1.3308			91.44			2.750	7.599			3.600

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		
						Load P1	Extended Length Lt						Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-014BB-1			14.50	0.1152			35.72				0.571	0.658			1.406
SSE-014BB-2			16.60	0.0821			46.35				0.654	0.469			1.825
SSE-014BB-3	5.00	0.36	19.40	0.0594	0.2452	2.689	60.53	0.197	0.014	0.764	0.339	0.055	0.604	2.383	
SSE-014BB-4			24.00	0.0408			83.83				0.945	0.233			3.300
SSE-014BB-5			27.50	0.0330			101.55				1.083	0.188			3.998
SSE-014BB-6			40.50	0.0193			167.39				1.594	0.110			6.590
SSE-016BB-1			15.50	0.1883			32.18				0.610	1.075			1.267
SSE-016BB-2			17.50	0.1430			39.46				0.689	0.817			1.553
SSE-016BB-3	5.00	0.41	20.70	0.1033	0.6178	3.758	51.10	0.197	0.016	0.815	0.590	0.139	0.845	2.012	
SSE-016BB-4			25.90	0.0712			70.03				1.020	0.406			2.757
SSE-016BB-5			32.70	0.0506			94.78				1.287	0.289			3.731
SSE-016BB-6			45.00	0.0332			139.54				1.772	0.190			5.494
SSE-018BB-1			9.70	0.8059			15.46				0.382	4.602			0.608
SSE-018BB-2			11.50	0.4669			21.43				0.453	2.666			0.844
SSE-018BB-3	5.00	0.45	14.20	0.2859	0.4413	5.079	30.42	0.197	0.018	0.559	1.633	0.099	1.142	1.198	
SSE-018BB-4			18.30	0.1809			43.94				0.720	1.033			1.730
SSE-018BB-5			25.00	0.1119			66.45				0.984	0.639			2.616
SSE-018BB-6			34.00	0.0749			95.92				1.339	0.428			3.777
SSE-020BB-1			11.90	0.7359			20.26				0.469	4.202			0.798
SSE-020BB-2			17.40	0.3409			35.46				0.685	1.947			1.396
SSE-020BB-3			25.00	0.1969			56.26				0.984	1.124			2.215
SSE-020BB-4	5.00	0.50	28.40	0.1639	0.7747	6.930	65.96	0.197	0.020	1.118	0.936	0.174	1.558	2.597	
SSE-020BB-5			30.00	0.1539			70.00				1.181	0.879			2.756
SSE-020BB-6			39.40	0.1079			96.45				1.551	0.616			3.797
SSE-020BB-7			50.40	0.0809			126.49				1.984	0.462			4.980
SSE-025BB-1			20.00	0.9379			32.53				0.787	5.356			1.281
SSE-025BB-2			25.00	0.6749			42.41				0.984	3.854			1.670
SSE-025BB-3			30.00	0.5269			52.30				1.181	3.009			2.059
SSE-025BB-4	5.00	0.63	35.00	0.4498	1.5691	13.321	61.13	0.197	0.025	1.378	2.568	0.353	2.995	2.407	
SSE-025BB-5			40.00	0.3659			72.12				1.575	2.089			2.839
SSE-025BB-6			50.00	0.2809			91.84				1.969	1.604			3.616
SSE-025BB-7			60.00	0.2304			111.01				2.362	1.316			4.370
SSE-028BB-1			13.50	3.0699			18.35				0.531	17.530			0.722
SSE-028BB-2			17.70	1.9199			25.45				0.697	10.963			1.002
SSE-028BB-3	5.00	0.70	24.00	1.2299	2.7753	17.656	36.10	0.197	0.028	0.945	7.023	0.624	3.969	1.421	
SSE-028BB-4			34.50	0.7699			53.83				1.358	4.396			2.119
SSE-028BB-5			48.50	0.5262			76.78				1.909	3.005			3.023
SSE-039BB-1			15.80	15.8990			18.24				0.622	90.786			0.718
SSE-039BB-2	5.00	1.00	21.80	9.9005	9.1202	47.857	25.71	0.197	0.039	0.858	56.533	2.050	10.759	1.012	
SSE-039BB-3			30.80	6.3690			36.88				1.213	36.368			1.452

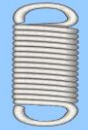
Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-020BC-1			12.70	0.5099			22.92			0.500	2.912			0.903
SSE-020BC-2			15.70	0.3099			32.52			0.618	1.770			1.280
SSE-020BC-3			20.20	0.2099			45.04			0.795	1.199			1.773
SSE-020BC-4	5.50	0.50	27.70	0.1299	1.1180	6.331	67.83	0.217	0.020	1.091	0.742	0.251	1.423	2.671
SSE-020BC-5			37.70	0.0899			95.69			1.484	0.513			3.767
SSE-020BC-6			42.70	0.0750			112.21			1.681	0.428			4.418
SSE-020BC-7			46.70	0.0680			123.37			1.839	0.388			4.857
SSE-026BC-1			14.50	2.2760			19.07			0.571	12.996			0.751
SSE-026BC-2			19.00	1.1771			27.84			0.748	6.721			1.096
SSE-026BC-3			25.40	0.6979			40.32			1.000	3.985			1.587
SSE-026BC-4	5.50	0.66	29.00	0.5678	3.2166	13.625	47.33	0.217	0.026	1.142	3.242	0.723	3.063	1.863
SSE-026BC-5			35.00	0.4333			59.02			1.378	2.474			2.324
SSE-026BC-6			42.00	0.3394			72.67			1.654	1.938			2.861
SSE-026BC-7			48.00	0.2863			84.36			1.890	1.635			3.321
SSE-026BC-8			55.00	0.2421			98.00			2.165	1.382			3.858
SSE-031BC-1			15.00	3.9998			19.75			0.591	22.839			0.778
SSE-031BC-2			19.80	2.4998			27.41			0.780	14.274			1.079
SSE-031BC-3			27.00	1.5998			38.89			1.063	9.135			1.531
SSE-031BC-4	5.50	0.80	39.00	0.9998	4.8543	23.872	58.02	0.217	0.031	1.535	5.709	1.091	5.367	2.284
SSE-031BC-5			45.00	0.8805			66.60			1.772	5.028			2.622
SSE-031BC-6			65.00	0.5638			98.73			2.559	3.219			3.887
SSE-031BC-7			290.00	0.1098			463.20			11.417	0.627			18.236
SSE-043BC-1			17.40	17.4998			20.02			0.685	99.926			0.788
SSE-043BC-2			24.00	10.9998			28.17			0.945	62.810			1.109
SSE-043BC-3	5.50	1.10	33.90	6.9998	10.5421	56.383	40.45	0.217	0.043	1.335	39.970	2.370	12.675	1.592
SSE-043BC-4			50.40	4.5139			60.56			1.984	25.775			2.384
SSE-043BC-5			72.40	2.9525			87.93			2.850	16.859			3.462
SSE-014BD-1			14.60	0.0619			47.16			0.575	0.353			1.857
SSE-014BD-2	6.00	0.36	17.80	0.0389	0.1569	2.172	69.61	0.236	0.014	0.701	0.222	0.035	0.488	2.741
SSE-014BD-3			23.20	0.0239			107.53			0.913	0.136			4.233
SSE-014BD-4			30.40	0.0159			157.16			1.197	0.091			6.187
SSE-020BD-1			16.00	0.4125			29.01			0.630	2.356			1.142
SSE-020BD-2			19.00	0.2582			39.79			0.748	1.475			1.567
SSE-020BD-3			25.40	0.1436			62.79			1.000	0.820			2.472
SSE-020BD-4	6.00	0.51	31.80	0.0995	0.5884	5.958	85.78	0.236	0.020	1.252	0.568	0.132	1.339	3.377
SSE-020BD-5			38.10	0.0764			108.41			1.500	0.436			4.268
SSE-020BD-6			50.80	0.0520			154.04			2.000	0.297			6.064
SSE-020BD-7			63.50	0.0394			199.66			2.500	0.225			7.861
SSE-022BD-1			13.90	0.5799			24.42			0.547	3.311			0.961
SSE-022BD-2			17.20	0.3599			34.15			0.677	2.055			1.345
SSE-022BD-3	6.00	0.55	22.10	0.2299	1.4318	7.533	48.64	0.236	0.022	0.870	1.313	0.322	1.694	1.915
SSE-022BD-4			30.40	0.1499			71.10			1.197	0.856			2.799
SSE-022BD-5			41.40	0.1099			96.92			1.630	0.628			3.816

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia.	Wire Dia.	Free Length	Spring Rate	Initial Tension	Safe Cyclic		Outside Dia.	Wire Dia.	Free Length	Spring Rate	Initial Tension	Safe Cyclic		
	De	d	Lo	k	Pi	Load P1	Extended Length Lt	De	d	Lo	k	Pi	Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-025BD-1			30.00	0.2995			63.07			1.181	1.710				2.483
SSE-025BD-2	6.00	0.63	40.00	0.2089	1.3337	11.240	87.42	0.236	0.025	1.575	1.193	0.300	2.527	3.442	
SSE-025BD-3			50.00	0.1578			112.77			1.969	0.901			4.440	
SSE-025BD-4			60.00	0.1271			137.94			2.362	0.726			5.431	
SSE-029BD-1			15.80	2.8682			21.01			0.622	16.378			0.827	
SSE-029BD-2			19.10	1.7650			27.57			0.752	10.079			1.085	
SSE-029BD-3	6.00	0.74	25.40	1.0177	2.6184	17.569	40.09	0.236	0.029	1.000	5.811	0.589	3.950	1.578	
SSE-029BD-4			31.80	0.7117			52.81			1.252	4.064			2.079	
SSE-029BD-5			38.10	0.5491			65.33			1.500	3.135			2.572	
SSE-029BD-7			50.80	0.3760			90.57			2.000	2.147			3.566	
SSE-031BD-1			25.00	1.3799			38.73			0.984	7.879			1.525	
SSE-031BD-2			30.00	1.0789			47.56			1.181	6.161			1.873	
SSE-031BD-3	6.00	0.80	40.00	0.7509	3.1087	22.059	65.24	0.236	0.031	1.575	4.288	0.699	4.959	2.568	
SSE-031BD-4			50.00	0.5649			83.55			1.969	3.226			3.289	
SSE-031BD-5			60.00	0.4599			101.21			2.362	2.626			3.984	
SSE-039BD-1			19.40	7.0868			24.44			0.764	40.467			0.962	
SSE-039BD-2			32.40	3.3268			43.13			1.276	18.997			1.698	
SSE-039BD-3			36.40	2.8598			48.88			1.433	16.330			1.924	
SSE-039BD-4			47.40	2.0628			64.70			1.866	11.779			2.547	
SSE-039BD-5			48.40	2.0118			66.14			1.906	11.488			2.604	
SSE-039BD-6	6.00	1.00	54.40	1.7528	5.3250	41.009	74.76	0.236	0.039	2.142	10.009	1.197	9.219	2.943	
SSE-039BD-7			61.40	1.5228			84.83			2.417	8.695			3.340	
SSE-039BD-8			63.40	1.4678			87.71			2.496	8.381			3.453	
SSE-039BD-9			69.40	1.3248			96.34			2.732	7.565			3.793	
SSE-039BD-10			77.40	1.1728			107.83			3.047	6.697			4.245	
SSE-039BD-11			85.40	1.0518			119.33			3.362	6.006			4.698	
SSE-047BD-1			19.00	19.0998			21.85			0.748	109.063			0.860	
SSE-047BD-2	6.00	1.20	26.20	11.9998	12.7486	67.100	30.73	0.236	0.047	1.031	68.521	2.866	15.085	1.210	
SSE-047BD-3			37.00	7.6298			44.12			1.457	43.567			1.737	
SSE-063090-1			17.10	4.2299			22.61			0.673	24.153			0.890	
SSE-063090-2			22.50	2.6499			31.29			0.886	15.131			1.232	
SSE-063090-3	6.30	0.90	30.60	1.6999	5.6682	28.963	44.30	0.248	0.035	1.205	9.707	1.274	6.511	1.744	
SSE-063090-4			44.10	1.0599			66.08			1.736	6.052			2.602	
SSE-063090-5			62.10	0.7259			94.19			2.445	4.145			3.708	

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		
						Load P1	Extended Length Lt						Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-018C-1			15.88	0.2221			33.27				0.625	1.268			1.310
SSE-018C-2			19.05	0.1308			48.56				0.750	0.747			1.912
SSE-018C-3			22.22	0.0925			63.98				0.875	0.528			2.519
SSE-018C-4			25.40	0.0716			79.31				1.000	0.409			3.122
SSE-018C-5			28.58	0.0587			94.39				1.125	0.335			3.716
SSE-018C-6			31.75	0.0489			110.77				1.250	0.279			4.361
SSE-018C-7	6.35	0.46	34.93	0.0429	0.4493	4.310	124.92	0.250	0.018	1.375	0.245	0.101	0.969	4.918	
SSE-018C-8			38.10	0.0377			140.65				1.500	0.215			5.537
SSE-018C-9			44.45	0.0299			173.38				1.750	0.171			6.826
SSE-018C-10			50.80	0.0254			202.85				2.000	0.145			7.986
SSE-018C-11			57.15	0.0221			232.13				2.250	0.126			9.139
SSE-018C-12			63.50	0.0191			265.77				2.500	0.109			10.463
SSE-018C-13			69.85	0.0177			288.14				2.750	0.101			11.344
SSE-022C-1			15.88	0.5777			27.38				0.625	3.299			1.078
SSE-022C-2			19.05	0.3501			38.02				0.750	1.999			1.497
SSE-022C-3			22.22	0.2625			47.52				0.875	1.499			1.871
SSE-022C-4			25.40	0.1995			58.70				1.000	1.139			2.311
SSE-022C-5			28.58	0.1644			68.97				1.125	0.939			2.715
SSE-022C-6			31.75	0.1399			79.22				1.250	0.799			3.119
SSE-022C-7	6.35	0.56	34.93	0.1228	0.8852	7.527	89.03	0.250	0.022	1.375	0.701	0.199	1.692	3.505	
SSE-022C-8			38.10	0.1049			101.42				1.500	0.599			3.993
SSE-022C-9			44.45	0.0874			120.45				1.750	0.499			4.742
SSE-022C-10			50.80	0.0699			145.85				2.000	0.399			5.742
SSE-022C-11			57.15	0.0629			162.79				2.250	0.359			6.409
SSE-022C-12			63.50	0.0559			182.39				2.500	0.319			7.181
SSE-022C-13			69.85	0.0489			205.79				2.750	0.279			8.102
SSE-026C-002			12.70	3.5549			15.55				0.500	20.299			0.612
SSE-026C-001			15.88	1.3308			23.50				0.625	7.599			0.925
SSE-026C-00			19.05	0.8404			31.11				0.750	4.799			1.225
SSE-026C-0			22.22	0.6128			38.76				0.875	3.499			1.526
SSE-026C-1			25.40	0.4902			46.08				1.000	2.799			1.814
SSE-026C-2			28.58	0.4026			53.76				1.125	2.299			2.117
SSE-026C-3			31.75	0.3326			62.23				1.250	1.899			2.450
SSE-026C-4	6.35	0.66	34.93	0.2975	1.7748	11.912	69.00	0.250	0.026	1.375	1.699	0.399	2.678	2.717	
SSE-026C-5			38.10	0.2625			76.72				1.500	1.499			3.020
SSE-026C-6			44.50	0.2100			92.78				1.752	1.199			3.653
SSE-026C-7			50.80	0.1750			108.75				2.000	0.999			4.281
SSE-026C-8			57.15	0.1504			124.54				2.250	0.859			4.903
SSE-026C-9			63.50	0.1329			139.77				2.500	0.759			5.503
SSE-026C-10			69.85	0.1189			155.10				2.750	0.679			6.106
SSE-026C-11			76.20	0.1049			172.84				3.000	0.599			6.805

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-029C-001			15.88	2.2940			22.08			0.625	13.099			0.869
SSE-029C-00			19.05	1.3832			29.34			0.750	7.898			1.155
SSE-029C-0			22.22	1.0506			35.76			0.875	5.999			1.408
SSE-029C-1			25.40	0.8229			42.69			1.000	4.699			1.681
SSE-029C-2			28.58	0.6828			49.42			1.125	3.899			1.945
SSE-029C-3			31.75	0.5953			55.65			1.250	3.399			2.191
SSE-029C-4	6.35	0.74	34.93	0.5077	2.4421	16.669	62.95	0.250	0.029	1.375	2.899	0.549	3.747	2.478
SSE-029C-5			38.10	0.4460			70.00			1.500	2.547			2.756
SSE-029C-6			44.45	0.3676			83.15			1.750	2.099			3.274
SSE-029C-7			50.80	0.3142			96.08			2.000	1.794			3.783
SSE-029C-8			57.15	0.2793			108.08			2.250	1.595			4.255
SSE-029C-9			63.50	0.2396			122.88			2.500	1.368			4.838
SSE-029C-10			69.85	0.2135			136.49			2.750	1.219			5.374
SSE-029C-11			76.20	0.1925			150.12			3.000	1.099			5.910
SSE-031C-001			15.88	3.2992			21.06			0.625	18.839			0.829
SSE-031C-00			19.05	2.1013			27.18			0.750	11.999			1.070
SSE-031C-0			22.22	1.5409			33.30			0.875	8.799			1.311
SSE-031C-1			25.40	1.2082			39.53			1.000	6.899			1.556
SSE-031C-2			28.58	0.9980			45.69			1.125	5.699			1.799
SSE-031C-3			31.75	0.8579			51.65			1.250	4.899			2.034
SSE-031C-4	6.35	0.79	34.93	0.7529	3.1093	20.185	57.61	0.250	0.031	1.375	4.299	0.699	4.538	2.268
SSE-031C-5			38.10	0.6653			63.77			1.500	3.799			2.510
SSE-031C-6			44.45	0.5245			77.01			1.750	2.995			3.032
SSE-031C-7			50.80	0.4552			88.32			2.000	2.599			3.477
SSE-031C-8			57.15	0.3851			101.49			2.250	2.199			3.996
SSE-031C-9			63.50	0.3501			112.28			2.500	1.999			4.420
SSE-031C-10			69.85	0.3063			125.60			2.750	1.749			4.945
SSE-031C-11			76.20	0.2748			138.34			3.000	1.569			5.447
SSE-034C-001			15.88	4.9666			20.19			0.625	28.360			0.795
SSE-034C-00			19.05	3.1129			25.93			0.750	17.775			1.021
SSE-034C-0			22.22	2.3640			31.28			0.875	13.499			1.232
SSE-034C-1			25.40	1.8870			36.75			1.000	10.775			1.447
SSE-034C-2			28.58	1.5935			42.02			1.125	9.099			1.654
SSE-034C-3			31.75	1.3833			47.23			1.250	7.899			1.860
SSE-034C-4	6.35	0.86	34.93	1.1716	3.7765	25.195	53.21	0.250	0.034	1.375	6.690	0.849	5.664	2.095
SSE-034C-5			38.10	1.0681			58.15			1.500	6.099			2.289
SSE-034C-6			44.45	0.8579			69.42			1.750	4.899			2.733
SSE-034C-7			50.80	0.7354			79.93			2.000	4.199			3.147
SSE-034C-8			57.15	0.6303			91.13			2.250	3.599			3.588
SSE-034C-9			63.50	0.5602			101.73			2.500	3.199			4.005
SSE-034C-10			69.85	0.4989			112.78			2.750	2.849			4.440
SSE-034C-11			76.20	0.4552			123.26			3.000	2.599			4.853



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-037C-00			15.88	7.8280			19.48			0.625	44.699			0.767
SSE-037C-0			19.05	5.0944			24.58			0.750	29.090			0.968
SSE-037C-1			25.40	3.0996			34.49			1.000	17.699			1.358
SSE-037C-2			28.58	2.6225			39.33			1.125	14.975			1.548
SSE-037C-3			31.75	2.2211			44.44			1.250	12.683			1.749
SSE-037C-4			34.93	1.9262			49.56			1.375	10.999			1.951
SSE-037C-5			38.10	1.6986			54.69			1.500	9.699			2.153
SSE-037C-6	6.35	0.94	44.45	1.4008	4.4438	32.624	64.57	0.250	0.037	1.750	7.999	0.999	7.334	2.542
SSE-037C-7			50.80	1.1718			74.85			2.000	6.691			2.947
SSE-037C-8			57.15	1.0149			84.92			2.250	5.795			3.343
SSE-037C-9			63.50	0.8930			95.06			2.500	5.099			3.742
SSE-037C-10			69.85	0.8054			104.84			2.750	4.599			4.127
SSE-037C-11			76.20	0.7178			115.46			3.000	4.099			4.546
SSE-037C-12			82.55	0.6566			125.47			3.250	3.749			4.940
SSE-037C-13			88.90	0.5988			135.96			3.500	3.419			5.353
SSE-041C-1			19.05	9.0374			23.24			0.750	51.605			0.915
SSE-041C-2			25.40	5.2512			32.61			1.000	29.985			1.284
SSE-041C-3			28.58	4.3780			37.23			1.125	24.999			1.466
SSE-041C-4			31.75	3.7651			41.81			1.250	21.499			1.646
SSE-041C-5			34.93	3.3272			46.31			1.375	18.999			1.823
SSE-041C-6			38.10	2.9418			50.97			1.500	16.798			2.007
SSE-041C-7	6.35	1.04	44.45	2.4166	4.6662	42.533	60.12	0.250	0.041	1.750	13.799	1.049	9.562	2.367
SSE-041C-8			50.80	2.0488			69.28			2.000	11.699			2.728
SSE-041C-9			57.15	1.7702			78.54			2.250	10.108			3.092
SSE-041C-10			63.50	1.5585			87.80			2.500	8.899			3.457
SSE-041C-11			69.85	1.4008			96.88			2.750	7.999			3.814
SSE-041C-12			76.20	1.2695			106.03			3.000	7.249			4.174
SSE-041C-13			88.90	1.0681			124.35			3.500	6.099			4.896
SSE-020CA-1			21.00	0.1413			55.10			0.827	0.807			2.169
SSE-020CA-2			23.50	0.1075			68.31			0.925	0.614			2.689
SSE-020CA-3	7.00	0.50	27.50	0.0779	0.2059	5.024	89.31	0.276	0.020	1.083	0.445	0.046	1.129	3.516
SSE-020CA-4			34.00	0.0538			123.52			1.339	0.307			4.863
SSE-020CA-5			42.50	0.0383			168.26			1.673	0.219			6.624
SSE-020CA-6			50.00	0.0305			207.73			1.969	0.174			8.178
SSE-025CA-1			16.10	0.6199			28.68			0.634	3.540			1.129
SSE-025CA-2			19.90	0.3899			39.91			0.783	2.226			1.571
SSE-025CA-3	7.00	0.63	25.60	0.2499	1.9123	9.713	56.81	0.276	0.025	1.008	1.427	0.430	2.184	2.237
SSE-025CA-4			35.00	0.1599			83.78			1.378	0.913			3.299
SSE-025CA-5			47.60	0.1099			118.58			1.874	0.628			4.668
SSE-025CA-6			60.00	0.0807			156.67			2.362	0.461			6.168

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-031CA-1			19.20	1.4510			30.76			0.756	8.285			1.211
SSE-031CA-2			29.60	0.6810			54.24			1.165	3.889			2.135
SSE-031CA-3			41.60	0.4220			81.36			1.638	2.410			3.203
SSE-031CA-4	7.00	0.80	47.20	0.3590	2.3536	19.131	93.93	0.276	0.031	1.858	2.050	0.529	4.301	3.698
SSE-031CA-5			52.80	0.3120			106.57			2.079	1.782			4.196
SSE-031CA-6			59.20	0.2710			121.11			2.331	1.547			4.768
SSE-031CA-7			65.60	0.2400			135.51			2.583	1.370			5.335
SSE-031CA-8			72.00	0.2150			150.03			2.835	1.228			5.907
SSE-039CA-1			19.00	4.7099			25.15			0.748	26.894			0.990
SSE-039CA-2			25.00	2.9399			34.85			0.984	16.787			1.372
SSE-039CA-3	7.00	1.00	34.00	1.8299	6.7862	35.757	49.83	0.276	0.039	1.339	10.449	1.526	8.039	1.962
SSE-039CA-4			49.00	1.1799			73.55			1.929	6.737			2.896
SSE-039CA-5			290.00	0.1799			451.04			11.417	1.027			17.757
SSE-055CA-1			22.10	22.2999			25.34			0.870	127.336			0.997
SSE-055CA-2			30.50	13.8999			35.69			1.201	79.370			1.405
SSE-055CA-3	7.00	1.40	43.10	8.9099	16.6909	88.862	51.20	0.276	0.055	1.697	50.877	3.752	19.977	2.016
SSE-055CA-4			64.10	5.7499			76.65			2.524	32.833			3.018
SSE-055CA-5			92.10	3.7598			111.30			3.626	21.469			4.382
SSE-073100-1			21.40	3.5429			29.80			0.843	20.230			1.173
SSE-073100-2			34.40	1.6631			52.30			1.354	9.497			2.059
SSE-073100-3			49.40	1.0311			78.27			1.945	5.888			3.081
SSE-073100-4	7.30	1.00	56.50	0.8759	4.6582	34.422	90.48	0.287	0.039	2.224	5.002	1.047	7.738	3.562
SSE-073100-5			63.50	0.7619			102.57			2.500	4.351			4.038
SSE-073100-6			71.50	0.6621			116.45			2.815	3.781			4.585
SSE-073100-7			79.50	0.5861			130.28			3.130	3.347			5.129
SSE-073100-8			87.50	0.5259			144.10			3.445	3.003			5.673
SSE-018CB-1			18.20	0.0771			59.47			0.717	0.440			2.341
SSE-018CB-2	7.50	0.45	22.30	0.0471	0.2550	3.437	89.86	0.295	0.018	0.878	0.269	0.057	0.773	3.538
SSE-018CB-3			29.00	0.0301			134.71			1.142	0.172			5.304
SSE-018CB-4			38.00	0.0199			197.89			1.496	0.114			7.791
SSE-028CB-1			17.50	0.7799			30.18			0.689	4.453			1.188
SSE-028CB-2			21.70	0.4901			41.87			0.854	2.799			1.649
SSE-028CB-3	7.50	0.70	28.00	0.3101	2.2163	12.103	59.88	0.295	0.028	1.102	1.771	0.498	2.721	2.358
SSE-028CB-4			38.50	0.1999			87.96			1.516	1.141			3.463
SSE-028CB-5			52.50	0.1299			128.61			2.067	0.742			5.063
SSE-032CB-1			25.40	0.9622			42.22			1.000	5.495			1.662
SSE-032CB-2			31.80	0.6279			57.57			1.252	3.585			2.267
SSE-032CB-3	7.50	0.81	38.10	0.4679	1.9417	18.124	72.69	0.295	0.032	1.500	2.672	0.437	4.074	2.862
SSE-032CB-4			50.80	0.3091			103.16			2.000	1.765			4.061
SSE-032CB-5			63.50	0.2308			133.62			2.500	1.318			5.261
SSE-032CB-6			76.20	0.1841			164.09			3.000	1.051			6.460

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-038CB-1			19.10	4.8091			24.60			0.752	27.461			0.969
SSE-038CB-2			25.40	2.3499			36.66			1.000	13.418			1.443
SSE-038CB-3			31.80	1.5465			48.90			1.252	8.831			1.925
SSE-038CB-4	7.50	0.96	38.10	1.1571	3.3637	29.814	60.96	0.295	0.038	1.500	6.607	0.756	6.702	2.400
SSE-038CB-5			50.80	0.7675			85.26			2.000	4.383			3.357
SSE-038CB-6			63.50	0.5742			109.56			2.500	3.279			4.314
SSE-038CB-7			76.20	0.4587			133.87			3.000	2.619			5.270
SSE-045CB-1			20.60	5.6899			26.74			0.811	32.490			1.053
SSE-045CB-2			27.20	3.5499			37.04			1.071	20.270			1.458
SSE-045CB-3	7.50	1.10	37.10	2.2799	8.1984	43.139	52.43	0.295	0.045	1.461	13.019	1.843	9.698	2.064
SSE-045CB-4			53.60	1.4201			78.20			2.110	8.109			3.079
SSE-045CB-5			63.50	1.2035			92.53			2.500	6.872			3.643
SSE-045CB-6			75.60	0.9716			111.56			2.976	5.548			4.392
SSE-049CB-1			24.30	8.8591			30.40			0.957	50.587			1.197
SSE-049CB-2			40.50	4.1579			53.50			1.594	23.742			2.106
SSE-049CB-3			55.30	2.7909			74.67			2.177	15.936			2.940
SSE-049CB-4	7.50	1.25	68.10	2.1911	8.3357	62.391	92.77	0.295	0.049	2.681	12.512	1.874	14.026	3.652
SSE-049CB-5			76.80	1.9039			105.19			3.024	10.872			4.141
SSE-049CB-6			86.80	1.6571			119.42			3.417	9.462			4.702
SSE-049CB-7			96.80	1.4661			133.67			3.811	8.372			5.263
SSE-049CB-8			106.00	1.3149			147.11			4.173	7.508			5.792
SSE-020CD-1			16.70	0.1555			43.47			0.657	0.888			1.711
SSE-020CD-2			22.20	0.0745			78.07			0.874	0.425			3.074
SSE-020CD-3	7.94	0.50	33.20	0.0365	0.2844	4.447	147.24	0.313	0.020	1.307	0.208	0.064	1.000	5.797
SSE-020CD-4			44.20	0.0229			225.97			1.740	0.131			8.897
SSE-020CD-5			55.20	0.0169			301.51			2.173	0.097			11.870
SSE-030CD-1			25.40	0.6128			46.53			1.000	3.499			1.832
SSE-030CD-2			28.58	0.4727			55.98			1.125	2.699			2.204
SSE-030CD-3			31.75	0.4026			63.92			1.250	2.299			2.516
SSE-030CD-4			34.93	0.3329			73.83			1.375	1.901			2.907
SSE-030CD-5	7.94	0.76	38.10	0.2979	1.7750	14.726	81.58	0.313	0.030	1.500	1.701	0.399	3.311	3.212
SSE-030CD-6			44.45	0.2275			101.38			1.750	1.299			3.991
SSE-030CD-7			50.80	0.1925			118.09			2.000	1.099			4.649
SSE-030CD-8			57.15	0.1644			135.91			2.250	0.939			5.351
SSE-030CD-9			63.50	0.1452			152.71			2.500	0.829			6.012
SSE-032CD-1			26.50	0.7806			45.48			1.043	4.457			1.791
SSE-032CD-2			30.50	0.5883			55.68			1.201	3.359			2.192
SSE-032CD-3			36.90	0.4220			72.01			1.453	2.410			2.835
SSE-032CD-4	7.94	0.81	41.00	0.3573	2.5497	17.365	82.47	0.313	0.032	1.614	2.040	0.573	3.904	3.247
SSE-032CD-5			47.30	0.2892			98.54			1.862	1.651			3.879
SSE-032CD-6			60.00	0.2089			130.93			2.362	1.193			5.155
SSE-032CD-7			75.00	0.1573			169.19			2.953	0.898			6.661

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-037CD-1			25.40	1.5735			39.96			1.000	8.985			1.573
SSE-037CD-2			28.58	1.2262			47.26			1.125	7.002			1.861
SSE-037CD-3			31.75	1.0506			53.55			1.250	5.999			2.108
SSE-037CD-4			34.93	0.9110			60.07			1.375	5.202			2.365
SSE-037CD-5			38.10	0.8054			66.54			1.500	4.599			2.620
SSE-037CD-6	7.94	0.94	44.45	0.6306	3.6873	26.594	80.77	0.313	0.037	1.750	3.601	0.829	5.979	3.180
SSE-037CD-7			50.80	0.5427			93.01			2.000	3.099			3.662
SSE-037CD-8			57.15	0.4552			107.48			2.250	2.599			4.231
SSE-037CD-9			63.50	0.4210			117.91			2.500	2.404			4.642
SSE-037CD-10			69.85	0.3685			132.02			2.750	2.104			5.198
SSE-037CD-11			76.20	0.3331			144.97			3.000	1.902			5.707
SSE-040CD-1			25.40	2.8626			35.21			1.000	16.346			1.386
SSE-040CD-2			30.00	2.0478			43.71			1.181	11.693			1.721
SSE-040CD-3			35.00	1.5639			52.95			1.378	8.930			2.085
SSE-040CD-4	7.94	1.02	41.00	1.2184	4.8053	32.880	64.04	0.313	0.040	1.614	6.957	1.080	7.392	2.521
SSE-040CD-5			45.00	1.0620			71.44			1.772	6.064			2.812
SSE-040CD-6			50.00	0.9152			80.68			1.969	5.226			3.176
SSE-040CD-7			55.00	0.8040			89.92			2.165	4.591			3.540
SSE-040CD-8			60.00	0.7169			99.16			2.362	4.094			3.904
SSE-043CD-1			25.40	3.9284			34.17			1.000	22.432			1.345
SSE-043CD-2			28.58	3.1484			39.52			1.125	17.978			1.556
SSE-043CD-3			31.75	2.6266			44.86			1.250	14.998			1.766
SSE-043CD-4			34.93	2.2535			50.21			1.375	12.868			1.977
SSE-043CD-5			38.10	1.9733			55.55			1.500	11.268			2.187
SSE-043CD-6	7.94	1.09	44.45	1.5817	5.7761	40.218	66.22	0.313	0.043	1.750	9.032	1.299	9.041	2.607
SSE-043CD-7			50.80	1.3184			76.93			2.000	7.528			3.029
SSE-043CD-8			57.15	1.1310			87.60			2.250	6.458			3.449
SSE-043CD-9			63.50	0.9891			98.32			2.500	5.648			3.871
SSE-043CD-10			69.85	0.8788			109.04			2.750	5.018			4.293
SSE-043CD-11			76.20	0.7912			119.73			3.000	4.518			4.714
SSE-049CD-1			25.40	6.3007			33.33			1.000	35.978			1.312
SSE-049CD-2			28.58	5.2512			38.10			1.125	29.985			1.500
SSE-049CD-3			31.75	4.5529			42.73			1.250	25.998			1.682
SSE-049CD-4			34.93	4.0253			47.35			1.375	22.985			1.864
SSE-049CD-5			38.10	3.6724			51.71			1.500	20.970			2.036
SSE-049CD-6	7.94	1.24	44.45	2.8878	7.9924	57.981	61.76	0.313	0.049	1.750	16.490	1.797	13.035	2.431
SSE-049CD-7			50.80	2.4514			71.19			2.000	13.998			2.803
SSE-049CD-8			57.15	2.1012			80.94			2.250	11.998			3.187
SSE-049CD-9			63.50	1.9260			89.45			2.500	10.998			3.522
SSE-049CD-10			69.85	1.7504			98.41			2.750	9.995			3.874
SSE-049CD-11			76.20	1.5735			107.97			3.000	8.985			4.251

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-055CD-1			25.40	14.3970			30.03			1.000	82.209			1.182
SSE-055CD-2			28.58	11.6943			34.28			1.125	66.776			1.349
SSE-055CD-3			31.75	9.8455			38.52			1.250	56.219			1.516
SSE-055CD-4			34.93	8.5022			42.77			1.375	48.549			1.684
SSE-055CD-5			38.10	7.4812			47.00			1.500	42.719			1.851
SSE-055CD-6	7.94	1.40	44.45	6.0329	13.3370	79.952	55.49	0.313	0.055	1.750	34.449	2.998	17.974	2.185
SSE-055CD-7			50.80	5.0522			63.99			2.000	28.849			2.519
SSE-055CD-8			57.15	4.3482			72.47			2.250	24.829			2.853
SSE-055CD-9			63.50	3.8158			80.96			2.500	21.789			3.187
SSE-055CD-10			69.85	3.3990			89.45			2.750	19.409			3.522
SSE-055CD-11			76.20	3.0638			97.94			3.000	17.495			3.856
SSE-080160-1			25.30	25.4010			28.87			0.996	145.043			1.137
SSE-080160-2	8.00	1.60	34.90	15.8995	22.0355	112.841	40.61	0.315	0.063	1.374	90.788	4.954	25.368	1.599
SSE-080160-3			49.30	10.1990			58.20			1.941	58.238			2.291
SSE-085090-1			48.50	0.3759			99.57			1.909	2.146			3.920
SSE-085090-2	8.50	0.90	61.10	0.2789	2.7655	21.963	129.93	0.335	0.035	2.406	1.593	0.622	4.938	5.115
SSE-085090-3			73.70	0.2219			160.21			2.902	1.267			6.308
SSE-085090-4			98.90	0.1579			220.48			3.894	0.902			8.680
SSE-085120-1			23.00	5.4299			30.42			0.906	31.006			1.198
SSE-085120-2			30.20	3.3899			42.09			1.189	19.357			1.657
SSE-085120-3	8.50	1.20	41.00	2.1699	9.2967	49.601	59.57	0.335	0.047	1.614	12.390	2.090	11.151	2.345
SSE-085120-4			59.00	1.3499			88.86			2.323	7.708			3.498
SSE-085120-5			290.00	0.2399			458.01			11.417	1.370			18.032
SSE-090080-1			20.60	0.7599			36.87			0.811	4.339			1.452
SSE-090080-2			25.40	0.4699			51.71			1.000	2.683			2.036
SSE-090080-3			32.60	0.2999			73.83			1.283	1.712			2.907
SSE-090080-4	9.00	0.80	44.60	0.1899	2.7262	15.091	109.71	0.354	0.031	1.756	1.084	0.613	3.393	4.319
SSE-090080-5			60.60	0.1299			155.78			2.386	0.742			6.133
SSE-090080-6			68.30	0.1145			176.29			2.689	0.654			6.940
SSE-090080-7			74.70	0.1023			195.57			2.941	0.584			7.699
SSE-090100-1			24.00	1.7302			38.41			0.945	9.880			1.512
SSE-090100-2			37.20	0.8122			67.89			1.465	4.638			2.673
SSE-090100-3			52.20	0.5042			101.64			2.055	2.879			4.002
SSE-090100-4	9.00	1.00	59.20	0.4279	3.4421	28.369	117.45	0.354	0.039	2.331	2.443	0.774	6.378	4.624
SSE-090100-5			66.20	0.3719			133.23			2.606	2.124			5.245
SSE-090100-6			74.20	0.3242			151.09			2.921	1.851			5.948
SSE-090100-7			82.20	0.2862			169.30			3.236	1.634			6.665
SSE-090100-8			90.20	0.2572			187.12			3.551	1.469			7.367
SSE-090180-1			28.40	28.6005			32.33			1.118	163.313			1.273
SSE-090180-2			39.20	17.7990			45.51			1.543	101.635			1.792
SSE-090180-3	9.00	1.80	55.40	11.5010	26.3799	138.733	65.17	0.354	0.071	2.181	65.672	5.930	31.189	2.566
SSE-090180-4			82.40	7.3943			97.59			3.244	42.223			3.842
SSE-090180-5			118.00	4.8534			141.15			4.646	27.714			5.557

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		
						Load P1	Extended Length Lt						Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-092125-1			27.00	4.3039			37.51				1.063	24.576			1.477
SSE-092125-2			43.30	2.0199			65.68				1.705	11.534			2.586
SSE-092125-3			58.50	1.3559			91.85				2.303	7.742			3.616
SSE-092125-4	9.20	1.25	70.80	1.0651	6.7666	51.980	113.25	0.362	0.049	2.787	6.082	1.521	11.686	4.459	
SSE-092125-5			79.50	0.9251			128.37				3.130	5.282			5.054
SSE-092125-6			89.50	0.8051			145.66				3.524	4.597			5.735
SSE-092125-7			99.50	0.7121			162.99				3.917	4.066			6.417
SSE-092125-8			109.00	0.6391			179.75				4.291	3.649			7.077
SSE-026D-1			25.40	0.2275			56.64				1.000	1.299			2.230
SSE-026D-2			28.58	0.1609			72.74				1.125	0.919			2.864
SSE-026D-3	9.52	0.66	31.75	0.1259	0.9831	8.090	88.19	0.375	0.026	1.250	0.719	0.221	1.819	3.472	
SSE-026D-4			34.93	0.1049			102.68				1.375	0.599			4.042
SSE-026D-5			38.10	0.0874			119.43				1.500	0.499			4.702
SSE-026D-6			44.45	0.0681			148.77				1.750	0.389			5.857
SSE-031D-0			22.22	0.8509			36.85				0.875	4.859			1.451
SSE-031D-1			25.40	0.5427			48.34				1.000	3.099			1.903
SSE-031D-2			28.58	0.4026			59.50				1.125	2.299			2.343
SSE-031D-3			31.75	0.3142			71.38				1.250	1.794			2.810
SSE-031D-4			34.93	0.2634			82.20				1.375	1.504			3.236
SSE-031D-5	9.52	0.79	38.10	0.2259	1.3300	13.780	93.21	0.375	0.031	1.500	1.290	0.299	3.098	3.670	
SSE-031D-6			44.45	0.1679			118.58				1.750	0.959			4.669
SSE-031D-7			50.80	0.1364			142.06				2.000	0.779			5.593
SSE-031D-8			57.15	0.1158			164.70				2.250	0.661			6.484
SSE-031D-9			63.50	0.0996			188.44				2.500	0.569			7.419
SSE-031D-10			69.85	0.0874			212.32				2.750	0.499			8.359
SSE-031D-11			76.20	0.0786			234.53				3.000	0.449			9.234
SSE-034D-1			25.40	0.8403			43.30				1.000	4.798			1.705
SSE-034D-2			28.58	0.6301			52.45				1.125	3.598			2.065
SSE-034D-3			31.75	0.4900			62.44				1.250	2.798			2.458
SSE-034D-4	9.52	0.86	34.93	0.4200	2.2163	17.256	70.74	0.375	0.034	1.375	2.398	0.498	3.879	2.785	
SSE-034D-5			38.10	0.3506			81.00				1.500	2.002			3.189
SSE-034D-6			44.45	0.2793			98.29				1.750	1.595			3.870
SSE-034D-7			50.80	0.2273			116.96				2.000	1.298			4.605
SSE-037D-0			19.05	4.2552			23.59				0.750	24.298			0.929
SSE-037D-1			25.40	1.3481			39.73				1.000	7.698			1.564
SSE-037D-2			28.58	0.9804			48.29				1.125	5.598			1.901
SSE-037D-3			31.75	0.7697			56.85				1.250	4.395			2.238
SSE-037D-4			34.93	0.6476			64.77				1.375	3.698			2.550
SSE-037D-5	9.52	0.94	38.10	0.5601	3.1087	22.431	72.60	0.375	0.037	1.500	3.198	0.699	5.043	2.858	
SSE-037D-6			44.45	0.4200			90.46				1.750	2.398			3.561
SSE-037D-7			50.80	0.3506			105.91				2.000	2.002			4.170
SSE-037D-8			57.15	0.2974			122.13				2.250	1.698			4.808
SSE-037D-9			63.50	0.2448			142.42				2.500	1.398			5.607
SSE-037D-10			69.85	0.2203			157.56				2.750	1.258			6.203
SSE-037D-11			76.20	0.1993			173.16				3.000	1.138			6.817

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		
						Load P1	Extended Length Lt						Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-039D-1			25.40	1.6809			38.83				1.000	9.598			1.529
SSE-039D-2			28.58	1.2255			47.00				1.125	6.998			1.851
SSE-039D-3			31.75	0.9979			54.38				1.250	5.698			2.141
SSE-039D-4			34.93	0.8403			61.80				1.375	4.798			2.433
SSE-039D-5			38.10	0.7177			69.56				1.500	4.098			2.739
SSE-039D-6	9.52	0.99	44.45	0.5601	3.5500	26.129	84.76	0.375	0.039	1.750	3.198	0.798	5.874	3.337	
SSE-039D-7			50.80	0.4550			100.43				2.000	2.598			3.954
SSE-039D-8			57.15	0.3849			115.81				2.250	2.198			4.559
SSE-039D-9			63.50	0.3324			131.43				2.500	1.898			5.174
SSE-039D-10			69.85	0.2956			146.23				2.750	1.688			5.757
SSE-039D-11			76.20	0.2641			161.70				3.000	1.508			6.366
SSE-041D-0			19.05	6.6552			22.87				0.750	38.002			0.900
SSE-041D-1			25.40	2.2238			36.82				1.000	12.698			1.450
SSE-041D-2			28.58	1.6634			43.85				1.125	9.498			1.726
SSE-041D-3			31.75	1.3313			50.83				1.250	7.602			2.001
SSE-041D-4			34.93	1.1205			57.60				1.375	6.398			2.268
SSE-041D-5			38.10	0.9628			64.48				1.500	5.498			2.539
SSE-041D-6	9.52	1.04	44.45	0.7352	4.0078	29.406	79.00	0.375	0.041	1.750	4.198	0.901	6.611	3.110	
SSE-041D-7			50.80	0.5951			93.48	0.375	0.041	2.000	3.398			3.680	
SSE-041D-8			57.15	0.5075			107.19	0.375	0.041	2.250	2.898			4.220	
SSE-041D-9			63.50	0.4375			121.56	0.375	0.041	2.500	2.498			4.786	
SSE-041D-10			69.85	0.3832			136.13	0.375	0.041	2.750	2.188			5.360	
SSE-041D-11			76.20	0.3429			150.27	0.375	0.041	3.000	1.958			5.916	
SSE-041D-12			88.90	0.2851			177.98	0.375	0.041	3.500	1.628			7.007	
SSE-045D-0			19.05	9.9819			22.37				0.750	56.998			0.881
SSE-045D-1			25.40	3.5349			34.78				1.000	20.185			1.369
SSE-045D-2			28.58	2.7309			40.72				1.125	15.594			1.603
SSE-045D-3			31.75	2.1374			47.27				1.250	12.205			1.861
SSE-045D-4			34.93	1.7684			53.68				1.375	10.098			2.114
SSE-045D-5			38.10	1.5408			59.63				1.500	8.798			2.347
SSE-045D-6			44.45	1.3131			69.71				1.750	7.498			2.744
SSE-045D-7	9.52	1.14	50.80	0.9804	5.3250	38.491	84.63	0.375	0.045	2.000	5.598	1.197	8.653	3.332	
SSE-045D-8			57.15	0.8403			96.62				2.250	4.798			3.804
SSE-045D-9			63.50	0.7177			109.71				2.500	4.098			4.319
SSE-045D-10			69.85	0.6301			122.49				2.750	3.598			4.822
SSE-045D-11			76.20	0.5601			135.42				3.000	3.198			5.331
SSE-045D-12			88.90	0.4550			161.80				3.500	2.598			6.370
SSE-045D-13			101.60	0.3937			185.85				4.000	2.248			7.317
SSE-045D-14			114.30	0.3464			210.05				4.500	1.978			8.270



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-049D-1			25.40	5.2529			33.50			1.000	29.995			1.319
SSE-049D-2			28.58	4.1479			38.84			1.125	23.685			1.529
SSE-049D-3			31.75	3.3271			44.54			1.250	18.998			1.754
SSE-049D-4			34.93	2.8003			50.13			1.375	15.990			1.973
SSE-049D-5			38.10	2.4339			55.58			1.500	13.898			2.188
SSE-049D-6			44.45	1.8910			66.95			1.750	10.798			2.636
SSE-049D-7			50.80	1.5768			77.79			2.000	9.004			3.063
SSE-049D-8	9.52	1.24	57.15	1.3142	6.6587	49.214	89.53	0.375	0.049	2.250	7.504	1.497	11.064	3.525
SSE-049D-9			63.50	1.1205			101.48			2.500	6.398			3.995
SSE-049D-10			69.85	1.0164			111.72			2.750	5.804			4.398
SSE-049D-11			76.20	0.9114			122.89			3.000	5.204			4.838
SSE-049D-12			88.90	0.7352			146.78			3.500	4.198			5.779
SSE-049D-13			101.60	0.6301			169.14			4.000	3.598			6.659
SSE-049D-14			114.30	0.5601			190.28			4.500	3.198			7.492
SSE-049D-15			127.00	0.4848			214.79			5.000	2.768			8.456
SSE-052D-1			25.40	7.1242			32.37			1.000	40.680			1.275
SSE-052D-2			28.58	5.4272			37.73			1.125	30.990			1.486
SSE-052D-3			31.75	4.3778			43.10			1.250	24.998			1.697
SSE-052D-4			34.93	3.7999			48.00			1.375	21.698			1.890
SSE-052D-5			38.10	3.2570			53.35			1.500	18.598			2.101
SSE-052D-6	9.52	1.32	44.45	2.5350	7.7669	57.449	64.05	0.375	0.052	1.750	14.475	1.746	12.915	2.522
SSE-052D-7			50.80	2.2938			72.46			2.000	13.098			2.853
SSE-052D-8			57.15	1.7859			84.97			2.250	10.198			3.345
SSE-052D-9			63.50	1.5408			95.75			2.500	8.798			3.769
SSE-052D-10			69.85	1.3656			106.23			2.750	7.798			4.182
SSE-052D-11			76.20	1.2255			116.74			3.000	6.998			4.596
SSE-055D-0			25.40	9.7717			31.47			1.000	55.798			1.239
SSE-055D-1			31.75	6.0857			41.49			1.250	34.750			1.633
SSE-055D-2			34.93	5.2118			46.30			1.375	29.760			1.823
SSE-055D-3			38.10	4.4465			51.43			1.500	25.390			2.025
SSE-055D-4			44.45	3.4847			61.46			1.750	19.898			2.420
SSE-055D-5			50.80	2.8682			71.46			2.000	16.378			2.814
SSE-055D-6			57.15	2.4339			81.50			2.250	13.898			3.209
SSE-055D-7	9.52	1.40	63.50	2.0823	8.8848	68.152	91.96	0.375	0.055	2.500	11.890	1.997	15.321	3.621
SSE-055D-8			69.85	1.8560			101.78			2.750	10.598			4.007
SSE-055D-9			76.20	1.6620			111.86			3.000	9.490			4.404
SSE-055D-10			88.90	1.3818			131.79			3.500	7.890			5.189
SSE-055D-11			101.60	1.1900			151.41			4.000	6.795			5.961
SSE-055D-12			114.30	1.0329			171.68			4.500	5.898			6.759
SSE-055D-13			127.00	0.9264			190.97			5.000	5.290			7.519
SSE-055D-14			139.70	0.8187			212.09			5.500	4.675			8.350
SSE-055D-15			152.40	0.7399			232.50			6.000	4.225			9.154

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-096160-1			31.00	11.3388			38.74			1.220	64.746			1.525
SSE-096160-2			51.80	5.3218			68.30			2.039	30.388			2.689
SSE-096160-3			61.40	4.2748			81.94			2.417	24.410			3.226
SSE-096160-4			75.80	3.3008			102.40			2.984	18.848			4.032
SSE-096160-5	9.60	1.60	87.00	2.8038	8.8848	96.696	118.32	0.375	0.063	3.425	16.010	1.997	21.738	4.658
SSE-096160-6			98.20	2.4372			134.23			3.866	13.917			5.285
SSE-096160-7			111.00	2.1202			152.42			4.370	12.107			6.001
SSE-096160-8			123.00	1.8758			169.81			4.843	10.711			6.686
SSE-096160-9			136.00	1.6828			188.18			5.354	9.609			7.409
SSE-028DA-1			23.60	0.2429			57.98			0.929	1.387			2.283
SSE-028DA-2			40.40	0.0829			141.15			1.591	0.473			5.557
SSE-028DA-3	10.00	0.70	64.40	0.0429	0.8336	9.186	259.08	0.394	0.028	2.535	0.245	0.187	2.065	10.200
SSE-028DA-4			74.00	0.0359			306.64			2.913	0.205			12.073
SSE-028DA-5			90.80	0.0279			390.15			3.575	0.159			15.360
SSE-035DA-1			23.00	0.8795			40.24			0.906	5.022			1.584
SSE-035DA-2			28.40	0.5505			55.94			1.118	3.143			2.203
SSE-035DA-3	10.00	0.90	36.50	0.3505	3.6677	18.831	79.76	0.394	0.035	1.437	2.001	0.825	4.233	3.140
SSE-035DA-4			50.00	0.2255			117.24			1.969	1.288			4.616
SSE-035DA-5			68.00	0.1495			169.43			2.677	0.854			6.670
SSE-047DA-1			35.40	1.9515			52.93			1.394	11.143			2.084
SSE-047DA-2			41.40	1.4612			64.81			1.630	8.344			2.551
SSE-047DA-3			51.00	1.0395			83.90			2.008	5.936			3.303
SSE-047DA-4	10.00	1.20	58.00	0.9022	8.5318	42.733	95.91	0.394	0.047	2.283	5.152	1.918	9.607	3.776
SSE-047DA-5			66.60	0.7355			113.10			2.622	4.200			4.453
SSE-047DA-6			75.00	0.6276			129.49			2.953	3.584			5.098
SSE-047DA-7			87.00	0.5198			152.80			3.425	2.968			6.016
SSE-047DA-8			100.00	0.4413			177.50			3.937	2.520			6.988
SSE-055DA-1			26.90	6.1398			35.50			1.059	35.059			1.398
SSE-055DA-2			35.30	3.8298			49.09			1.390	21.869			1.933
SSE-055DA-3	10.00	1.40	47.90	2.4598	12.3956	65.192	69.36	0.394	0.055	1.886	14.046	2.787	14.656	2.731
SSE-055DA-4			68.90	1.5398			103.19			2.713	8.792			4.063
SSE-055DA-5			96.90	1.0305			148.13			3.815	5.884			5.832
SSE-055DA-6			290.00	0.3205			454.73			11.417	1.830			17.903
SSE-079DA-1			31.60	31.7990			35.93			1.244	181.577			1.414
SSE-079DA-2	10.00	2.00	43.60	19.8990	33.6466	171.276	50.52	0.394	0.079	1.717	113.626	7.564	38.504	1.989
SSE-079DA-3			61.60	12.8005			72.35			2.425	73.093			2.848
SSE-110100-1			25.40	1.0198			43.87			1.000	5.823			1.727
SSE-110100-2			31.40	0.6398			60.84			1.236	3.653			2.395
SSE-110100-3			40.40	0.4098			86.36			1.591	2.340			3.400
SSE-110100-4	11.00	1.00	55.40	0.2601	4.6385	23.472	127.81	0.433	0.039	2.181	1.485	1.043	5.277	5.032
SSE-110100-5			75.40	0.1698			186.32			2.969	0.970			7.335
SSE-110100-6			85.40	0.1471			213.43			3.362	0.840			8.403
SSE-110100-7			93.40	0.1314			236.72			3.677	0.750			9.320

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		
						Load P1	Extended Length Lt						Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-110160-1			30.10	8.0398			38.66								1.522
SSE-110160-2	11.00	1.60	39.70	5.0198	16.8969	85.693	53.40	0.433	0.063	1.563	28.664	3.799	19.265	2.103	
SSE-110160-3			54.10	3.2198			75.47			2.130	18.386			2.971	
SSE-110160-4			78.10	2.0098			112.33			3.075	11.476			4.422	
SSE-110220-1			34.80	34.9980			39.45			1.370	199.844			1.553	
SSE-110220-2			48.00	21.8980			55.43			1.890	125.041			2.182	
SSE-110220-3	11.00	2.20	67.80	13.9998	38.5009	201.148	79.42	0.433	0.087	2.669	79.941	8.655	45.220	3.127	
SSE-110220-4			101.00	8.8652			119.35			3.976	50.622			4.699	
SSE-110220-5			145.00	5.8840			172.64			5.709	33.598			6.797	
SSE-037DE-1			25.40	0.6653			50.83			1.000	3.799			2.001	
SSE-037DE-2			28.58	0.5240			60.87			1.125	2.992			2.396	
SSE-037DE-3			31.75	0.4201			72.02			1.250	2.399			2.835	
SSE-037DE-4			34.93	0.3501			83.25			1.375	1.999			3.278	
SSE-037DE-5			38.10	0.3063			93.33			1.500	1.749			3.674	
SSE-037DE-6	11.11	0.94	44.45	0.2450	2.4419	19.359	113.50	0.438	0.037	1.750	1.399	0.549	4.352	4.468	
SSE-037DE-7			50.80	0.1925			138.70			2.000	1.099			5.461	
SSE-037DE-8			57.15	0.1690			157.25			2.250	0.965			6.191	
SSE-037DE-9			63.50	0.1487			177.28			2.500	0.849			6.980	
SSE-037DE-10			69.85	0.1310			199.00			2.750	0.748			7.834	
SSE-037DE-11			76.20	0.1154			222.79			3.000	0.659			8.771	
SSE-040DE-1			25.40	2.0300			36.37			1.000	11.591			1.432	
SSE-040DE-2			28.58	1.2945			45.79			1.125	7.392			1.803	
SSE-040DE-3			31.40	0.9611			54.58			1.236	5.488			2.149	
SSE-040DE-4	11.11	1.02	34.90	0.7355	1.7170	23.993	65.19	0.438	0.040	1.374	4.200	0.386	5.394	2.566	
SSE-040DE-5			40.40	0.5394			81.70			1.591	3.080			3.217	
SSE-040DE-6			55.40	0.3138			126.39			2.181	1.792			4.976	
SSE-040DE-7			75.40	0.1961			188.98			2.969	1.120			7.440	
SSE-046DE-1			25.40	3.2747			35.03			1.000	18.699			1.379	
SSE-046DE-2			28.58	2.3115			42.22			1.125	13.199			1.662	
SSE-046DE-3			31.75	1.7073			50.22			1.250	9.749			1.977	
SSE-046DE-4			34.93	1.4008			57.44			1.375	7.999			2.261	
SSE-046DE-5			38.10	1.1907			64.58			1.500	6.799			2.543	
SSE-046DE-6	11.11	1.17	44.50	0.8930	4.4130	35.945	79.81	0.438	0.046	1.752	5.099	0.992	8.081	3.142	
SSE-046DE-7			50.80	0.7178			94.73			2.000	4.099			3.729	
SSE-046DE-8			57.15	0.5953			110.12			2.250	3.399			4.336	
SSE-046DE-9			63.50	0.5077			125.61			2.500	2.899			4.945	
SSE-046DE-10			69.85	0.4464			140.49			2.750	2.549			5.531	
SSE-046DE-11			76.20	0.3939			156.26			3.000	2.249			6.152	

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-055DE-1			25.40	5.0743			35.75			1.000	28.975			1.408
SSE-055DE-2			28.58	3.9372			41.92			1.125	22.482			1.650
SSE-055DE-3			31.75	3.3271			47.54			1.250	18.998			1.872
SSE-055DE-4			34.93	2.7994			53.70			1.375	15.985			2.114
SSE-055DE-5			38.10	2.4514			59.53			1.500	13.998			2.344
SSE-055DE-6	11.11	1.40	44.45	1.9260	6.6587	59.190	71.72	0.438	0.055	1.750	10.998	1.497	13.306	2.824
SSE-055DE-7			50.80	1.6283			83.06			2.000	9.298			3.270
SSE-055DE-8			57.15	1.4007			94.65			2.250	7.998			3.727
SSE-055DE-9			63.50	1.1905			107.62			2.500	6.798			4.237
SSE-055DE-10			69.85	1.0504			119.86			2.750	5.998			4.719
SSE-055DE-11			76.20	0.9453			131.77			3.000	5.398			5.188
SSE-116160-1			34.20	5.8055			46.58			1.346	33.150			1.834
SSE-116160-2			55.00	2.7262			81.36			2.165	15.567			3.203
SSE-116160-3			79.00	1.6965			121.36			3.110	9.688			4.778
SSE-116160-4	11.60	1.60	93.60	1.3729	9.8066	81.672	145.94	0.457	0.063	3.685	7.840	2.205	18.361	5.746
SSE-116160-5			104.00	1.2062			163.58			4.094	6.888			6.440
SSE-116160-6			117.00	1.0493			185.49			4.606	5.992			7.303
SSE-116160-7			130.00	0.9336			206.98			5.118	5.331			8.149
SSE-116160-8			143.00	0.8434			228.21			5.630	4.816			8.985
SSE-120110-1			27.80	1.1498			47.31			1.094	6.566			1.863
SSE-120110-2			34.40	0.7198			65.56			1.354	4.110			2.581
SSE-120110-3	12.00	1.10	44.30	0.4598	5.4427	27.873	93.08	0.472	0.043	1.744	2.626	1.224	6.266	3.665
SSE-120110-4			60.80	0.2798			140.97			2.394	1.598			5.550
SSE-120110-5			82.80	0.1998			195.06			3.260	1.141			7.680
SSE-120150-1			36.50	3.3002			54.76			1.437	18.845			2.156
SSE-120150-2			57.50	1.6198			94.69			2.264	9.249			3.728
SSE-120150-3			66.50	1.3298			111.81			2.618	7.593			4.402
SSE-120150-4	12.00	1.50	77.00	1.0998	7.2177	67.466	131.78	0.472	0.059	3.031	6.280	1.623	15.167	5.188
SSE-120150-5			86.00	0.9578			148.90			3.386	5.469			5.862
SSE-120150-6			96.50	0.8328			168.84			3.799	4.755			6.647
SSE-120150-7			108.50	0.7238			191.74			4.272	4.133			7.549
SSE-120150-8			120.50	0.6408			214.52			4.744	3.659			8.446
SSE-120180-1			33.20	10.0998			41.87			1.307	57.671			1.648
SSE-120180-2			44.00	6.2798			57.94			1.732	35.859			2.281
SSE-120180-3	12.00	1.80	60.20	4.0197	20.7901	108.307	81.97	0.472	0.071	2.370	22.953	4.674	24.348	3.227
SSE-120180-4			87.20	2.5198			121.93			3.433	14.388			4.800
SSE-120180-5			290.00	0.6798			418.74			11.417	3.882			16.486



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-120200-1			38.30	14.1738			47.27			1.508	80.934			1.861
SSE-120200-2			54.80	8.3588			70.01			2.157	47.730			2.756
SSE-120200-3			66.80	6.3918			86.69			2.630	36.498			3.413
SSE-120200-4			94.80	4.1268			125.61			3.732	23.565			4.945
SSE-120200-5			96.80	4.0248			128.39			3.811	22.982			5.055
SSE-120200-6	12.00	2.00	108.00	3.5048	19.6133	146.771	144.28	0.472	0.079	4.252	20.013	4.409	32.995	5.680
SSE-120200-7			122.00	3.0468			163.73			4.803	17.398			6.446
SSE-120200-8			126.00	2.9368			169.30			4.961	16.770			6.665
SSE-120200-9			138.00	2.6498			185.99			5.433	15.131			7.322
SSE-120200-10			154.80	2.3448			209.03			6.094	13.389			8.230
SSE-120200-11			170.00	2.1028			230.47			6.693	12.007			9.074
SSE-034E-1			31.75	0.3308			67.28			1.250	1.889			2.649
SSE-034E-2			34.93	0.2485			82.22			1.375	1.419			3.237
SSE-034E-3	12.70	0.86	38.10	0.1925	1.3300	13.083	99.16	0.500	0.034	1.500	1.099	0.299	2.941	3.904
SSE-034E-4			44.45	0.1389			129.08			1.750	0.793			5.082
SSE-034E-5			50.80	0.1067			161.00			2.000	0.609			6.338
SSE-034E-6			57.15	0.0869			192.45			2.250	0.496			7.577
SSE-037E-1			31.75	0.5245			60.84			1.250	2.995			2.395
SSE-037E-2			34.93	0.3844			74.62			1.375	2.195			2.938
SSE-037E-3	12.70	0.94	38.10	0.2972	1.7750	17.032	89.44	0.500	0.037	1.500	1.697	0.399	3.829	3.521
SSE-037E-4			44.45	0.2095			117.29			1.750	1.196			4.618
SSE-037E-5			50.80	0.1573			147.81			2.000	0.898			5.819
SSE-037E-6			57.15	0.1350			170.14			2.250	0.771			6.699
SSE-041E-1			31.75	0.8578			55.25			1.250	4.898			2.175
SSE-041E-2			34.93	0.6476			66.05			1.375	3.698			2.600
SSE-041E-3			38.10	0.5075			77.81			1.500	2.898			3.063
SSE-041E-4	12.70	1.04	44.45	0.3674	2.2163	22.371	99.31	0.500	0.041	1.750	2.098	0.498	5.029	3.910
SSE-041E-5			50.80	0.2793			122.95			2.000	1.595			4.841
SSE-041E-6			57.15	0.2273			145.81			2.250	1.298			5.741
SSE-041E-7			63.50	0.1940			167.37			2.500	1.108			6.589
SSE-041E-8			69.85	0.1679			189.86			2.750	0.959			7.475
SSE-045E-00			25.40	3.8174			32.27			1.000	21.798			1.271
SSE-045E-0			31.75	1.3492			51.20			1.250	7.704			2.016
SSE-045E-1			34.93	0.9986			61.20			1.375	5.702			2.410
SSE-045E-2			38.10	0.8227			69.99			1.500	4.698			2.755
SSE-045E-3	12.70	1.14	44.45	0.5951	3.1087	29.345	88.54	0.500	0.045	1.750	3.398	0.699	6.597	3.486
SSE-045E-4			50.80	0.4550			108.46			2.000	2.598			4.270
SSE-045E-5			57.15	0.3674			128.56			2.250	2.098			5.061
SSE-045E-6			63.50	0.3149			146.82			2.500	1.798			5.780
SSE-045E-7			69.85	0.2711			166.63			2.750	1.548			6.560
SSE-045E-8			76.20	0.2396			185.71			3.000	1.368			7.311

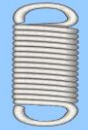
Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-049E-1			31.75	2.0642			48.51			1.250	11.787			1.910
SSE-049E-2			38.10	1.2698			65.35			1.500	7.251			2.573
SSE-049E-3			44.45	0.9173			82.17			1.750	5.238			3.235
SSE-049E-4			50.80	0.7002			100.22			2.000	3.998			3.946
SSE-049E-5	12.70	1.25	57.15	0.5776	3.9030	38.506	117.06	0.500	0.049	2.250	3.298	0.877	8.657	4.609
SSE-049E-6			63.50	0.4900			134.12			2.500	2.798			5.280
SSE-049E-7			69.85	0.4200			152.25			2.750	2.398			5.994
SSE-049E-8			76.20	0.3744			168.62			3.000	2.138			6.638
SSE-049E-9			88.90	0.3061			201.94			3.500	1.748			7.950
SSE-049E-10			101.60	0.2571			236.20			4.000	1.468			9.299
SSE-055E-0			31.75	3.6137			44.62			1.250	20.635			1.757
SSE-055E-1			34.93	2.7311			51.96			1.375	15.595			2.046
SSE-055E-2			38.10	2.2763			58.53			1.500	12.998			2.304
SSE-055E-3			44.45	1.6458			72.71			1.750	9.398			2.863
SSE-055E-4			50.80	1.2956			86.70			2.000	7.398			3.413
SSE-055E-5			57.15	1.0679			100.70			2.250	6.098			3.965
SSE-055E-6	12.70	1.40	63.50	0.9103	5.7761	52.288	114.59	0.500	0.055	2.500	5.198	1.299	11.755	4.512
SSE-055E-7			69.85	0.7877			128.90			2.750	4.498			5.075
SSE-055E-8			76.20	0.6826			144.34			3.000	3.898			5.682
SSE-055E-9			88.90	0.5601			171.95			3.500	3.198			6.770
SSE-055E-10			101.60	0.4725			200.04			4.000	2.698			7.876
SSE-055E-11			114.30	0.4024			229.87			4.500	2.298			9.050
SSE-055E-12			127.00	0.3622			255.43			5.000	2.068			10.056
SSE-063E-0			31.75	7.1151			41.07			1.250	40.628			1.617
SSE-063E-1			34.93	5.4964			46.99			1.375	31.385			1.850
SSE-063E-2			38.10	4.4962			52.84			1.500	25.674			2.080
SSE-063E-3			44.45	3.3090			64.48			1.750	18.895			2.539
SSE-063E-4			50.80	2.6090			76.21			2.000	14.898			3.000
SSE-063E-5			57.15	2.1525			87.95			2.250	12.291			3.462
SSE-063E-6	12.70	1.60	63.50	1.8735	8.8848	75.171	98.88	0.500	0.063	2.500	10.698	1.997	16.899	3.893
SSE-063E-7			69.85	1.5935			111.45			2.750	9.099			4.388
SSE-063E-8			76.20	1.4357			122.37			3.000	8.198			4.818
SSE-063E-9			88.90	1.1718			145.47			3.500	6.691			5.727
SSE-063E-10			101.60	0.9804			169.21			4.000	5.598			6.662
SSE-063E-11			114.30	0.8403			193.19			4.500	4.798			7.606
SSE-063E-12			127.00	0.7527			215.06			5.000	4.298			8.467

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-067E-1			31.75	9.6859			39.40			1.250	55.308			1.551
SSE-067E-2			38.10	6.2345			49.99			1.500	35.600			1.968
SSE-067E-3			44.45	4.5883			60.60			1.750	26.200			2.386
SSE-067E-4			50.80	3.6426			71.15			2.000	20.800			2.801
SSE-067E-5			57.15	3.0122			81.76			2.250	17.200			3.219
SSE-067E-6	12.70	1.70	63.50	2.5709	15.5926	89.716	92.33	0.500	0.067	2.500	14.680	3.505	20.169	3.635
SSE-067E-7			69.85	2.2416			102.92			2.750	12.800			4.052
SSE-067E-8			76.20	1.9789			113.66			3.000	11.300			4.475
SSE-067E-9			88.90	1.6129			134.86			3.500	9.210			5.309
SSE-067E-10			101.60	1.3660			155.86			4.000	7.800			6.136
SSE-067E-11			114.30	1.1733			177.47			4.500	6.700			6.987
SSE-067E-12			127.00	1.0341			198.68			5.000	5.905			7.822
SSE-075E-1			31.75	17.0957			37.49			1.250	97.619			1.476
SSE-075E-2			38.10	11.2009			46.86			1.500	63.959			1.845
SSE-075E-3			44.45	8.3289			56.24			1.750	47.559			2.214
SSE-075E-4			50.80	6.6284			65.61			2.000	37.849			2.583
SSE-075E-5			57.15	5.5058			74.98			2.250	31.439			2.952
SSE-075E-6	12.70	1.90	63.50	4.6932	22.2367	120.392	84.41	0.500	0.075	2.500	26.799	4.999	27.065	3.323
SSE-075E-7			69.85	4.1118			93.72			2.750	23.479			3.690
SSE-075E-8			76.20	3.6495			103.10			3.000	20.839			4.059
SSE-075E-9			88.90	2.9805			121.83			3.500	17.019			4.797
SSE-075E-10			101.60	2.5181			140.58			4.000	14.379			5.535
SSE-075E-11			114.30	2.1802			159.32			4.500	12.449			6.273
SSE-075E-12			127.00	1.9210			178.10			5.000	10.969			7.012
SSE-130120-1			30.20	1.2798			51.22			1.189	7.308			2.016
SSE-130120-2			37.40	0.7998			71.03			1.472	4.567			2.797
SSE-130120-3	13.00	1.20	48.20	0.5098	6.4920	33.392	100.97	0.512	0.047	1.898	2.911	1.459	7.507	3.975
SSE-130120-4			66.20	0.3198			150.31			2.606	1.826			5.918
SSE-130120-5			90.20	0.2098			218.42			3.551	1.198			8.599
SSE-130250-1			40.30	34.3010			46.22			1.587	195.864			1.820
SSE-130250-2	13.00	2.50	55.30	21.5010	48.2800	251.490	64.75	0.512	0.098	2.177	122.774	10.854	56.537	2.549
SSE-130250-3			77.80	13.7010			92.63			3.063	78.235			3.647
SSE-140160-1			38.20	2.9718			58.66			1.504	16.969			2.309
SSE-140160-2			59.00	1.3948			102.58			2.323	7.965			4.039
SSE-140160-3			83.00	0.8648			153.29			3.268	4.938			6.035
SSE-140160-4	14.00	1.60	94.20	0.7348	7.8845	68.675	176.93	0.551	0.063	3.709	4.196	1.773	15.439	6.966
SSE-140160-5			106.00	0.6388			201.16			4.173	3.648			7.920
SSE-140160-6			118.00	0.5558			227.37			4.646	3.174			8.952
SSE-140160-7			131.00	0.4918			254.61			5.157	2.808			10.024
SSE-140160-8			143.00	0.4468			279.06			5.630	2.551			10.986
SSE-140200-1			38.00	9.4198			48.88			1.496	53.788			1.924
SSE-140200-2	14.00	2.00	50.00	5.8798	25.5169	127.973	67.43	0.551	0.079	1.969	33.575	5.736	28.769	2.655
SSE-140200-3			68.00	3.7698			95.18			2.677	21.526			3.747
SSE-140200-4			98.00	2.3498			141.60			3.858	13.418			5.575

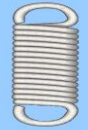
Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-140280-1			44.20	44.5998			49.97			1.740	254.671			1.967
SSE-140280-2			61.00	27.8998			70.22			2.402	159.312			2.764
SSE-140280-3	14.00	2.80	86.20	17.8998	58.8007	315.954	100.57	0.551	0.110	3.394	102.210	13.219	71.029	3.959
SSE-140280-4			128.00	11.3757			150.61			5.039	64.957			5.929
SSE-140280-5			184.00	7.4923			218.32			7.244	42.782			8.595
SSE-150140-1			34.90	1.5502			58.09			1.374	8.852			2.287
SSE-150140-2			43.30	0.9698			80.37			1.705	5.538			3.164
SSE-150140-3	15.00	1.40	55.90	0.6198	8.7377	44.688	113.90	0.591	0.055	2.201	3.539	1.964	10.046	4.484
SSE-150140-4			76.90	0.3898			169.13			3.028	2.226			6.659
SSE-150140-5			105.00	0.2599			243.32			4.134	1.484			9.580
SSE-150220-1			41.20	11.3998			52.13			1.622	65.095			2.052
SSE-150220-2	15.00	2.20	54.40	7.0998	29.2827	153.900	71.95	0.591	0.087	2.142	40.541	6.583	34.598	2.833
SSE-150220-3			74.20	4.5498			101.59			2.921	25.980			4.000
SSE-150220-4			107.00	2.8398			150.88			4.213	16.216			5.940
SSE-150250-1			48.50	17.7168			59.40			1.909	101.166			2.339
SSE-150250-2			81.00	8.3158			104.23			3.189	47.484			4.103
SSE-150250-3			118.00	5.1578			155.45			4.646	29.452			6.120
SSE-150250-4	15.00	2.50	136.00	4.3818	29.4200	222.584	180.08	0.591	0.098	5.354	25.021	6.614	50.039	7.090
SSE-150250-5			153.00	3.8078			203.73			6.024	21.743			8.021
SSE-150250-6			173.00	3.3128			231.31			6.811	18.917			9.107
SSE-150250-7			193.00	2.9318			258.89			7.598	16.741			10.192
SSE-150250-8			213.00	2.6288			286.48	0.591	0.098	8.386	15.011			11.279
SSE-055F-00			38.10	1.7194			60.13			1.500	9.818			2.367
SSE-055F-0			44.45	1.0732			79.75			1.750	6.128			3.140
SSE-055F-1			50.80	0.7877			98.89			2.000	4.498			3.893
SSE-055F-2			57.15	0.6126			118.99			2.250	3.498			4.685
SSE-055F-3	15.88	1.40	63.50	0.5075	4.4424	42.327	138.15	0.625	0.055	2.500	2.898	0.999	9.516	5.439
SSE-055F-4			69.85	0.4361			156.73			2.750	2.490			6.170
SSE-055F-5			76.20	0.3674			179.31			3.000	2.098			7.060
SSE-055F-6			88.90	0.2974			216.30			3.500	1.698			8.516
SSE-055F-7			101.60	0.2448			256.34			4.000	1.398			10.092
SSE-063F-1			50.80	1.5583			85.68			2.000	8.898			3.373
SSE-063F-2			57.15	1.1718			103.54			2.250	6.691			4.076
SSE-063F-3			63.50	1.0149			117.06			2.500	5.795			4.609
SSE-063F-4			69.85	0.8578			133.22			2.750	4.898			5.245
SSE-063F-5	15.88	1.60	76.20	0.7537	6.6587	61.013	148.31	0.625	0.063	3.000	4.304	1.497	13.716	5.839
SSE-063F-6			88.90	0.5961			180.08			3.500	3.404			7.090
SSE-063F-7			101.60	0.5082			208.55			4.000	2.902			8.211
SSE-063F-8			114.30	0.4210			243.41			4.500	2.404			9.583
SSE-063F-9			127.00	0.3731			272.70			5.000	2.130			10.736
SSE-160180-1			84.60	1.0828			152.31			3.331	6.183			5.996
SSE-160180-2	16.00	1.80	109.00	0.7698	9.8851	83.201	204.24	0.630	0.071	4.291	4.396	2.222	18.704	8.041
SSE-160180-3			134.00	0.6068			254.82			5.276	3.465			10.032
SSE-160180-4			159.00	0.4948			307.17			6.260	2.825			12.093

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		
						Load P1	Extended Length Lt						Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-160200-1			53.00	3.8318			78.78				2.087	21.880			3.101
SSE-160200-2			87.00	1.8278			141.04				3.425	10.437			5.553
SSE-160200-3	16.00	2.00	121.00	1.1998	14.5040	113.276	203.32	0.630	0.079	4.764	6.851	3.261	25.465	8.005	
SSE-160200-4			155.00	0.8928			265.63				6.102	5.098			10.458
SSE-160200-5			189.00	0.7112			327.88				7.441	4.061			12.909
SSE-160320-1			50.60	50.9010			56.95				1.992	290.652			2.242
SSE-160320-2	16.00	3.20	69.80	31.7998	76.3350	399.778	79.97	0.630	0.126	2.748	181.582	17.161	89.874	3.148	
SSE-160320-3			98.60	20.3998			114.46				3.882	116.486			4.506
SSE-170160-1			39.70	1.8199			64.79				1.563	10.392			2.551
SSE-170160-2			49.30	1.1399			89.36				1.941	6.509			3.518
SSE-170160-3	17.00	1.60	63.70	0.7299	11.5326	57.200	126.27	0.670	0.063	2.508	4.168	2.593	12.859	4.971	
SSE-170160-4			87.70	0.4599			187.00				3.453	2.626			7.362
SSE-170160-5			120.00	0.2999			272.27				4.724	1.712			10.719
SSE-180200-1			48.40	3.3868			74.90				1.906	19.339			2.949
SSE-180200-2			64.40	2.0408			108.37				2.535	11.653			4.267
SSE-180200-3			87.40	1.2628			158.46				3.441	7.211			6.239
SSE-180200-4			104.00	1.0068			193.13				4.094	5.749			7.603
SSE-180200-5	18.00	2.00	118.00	0.8558	11.7974	101.531	222.85	0.710	0.079	4.646	4.887	2.652	22.825	8.774	
SSE-180200-6			132.00	0.7438			252.64				5.197	4.247			9.947
SSE-180200-7			148.00	0.6468			286.73				5.827	3.693			11.289
SSE-180200-8			164.00	0.5728			320.66				6.457	3.271			12.624
SSE-180200-9			180.00	0.5128			354.99				7.087	2.928			13.976
SSE-180250-1			48.30	10.6998			62.73				1.902	61.097			2.470
SSE-180250-2	18.00	2.50	63.30	6.6698	34.7646	189.186	86.45	0.710	0.098	2.492	38.086	7.815	42.531	3.404	
SSE-180250-3			85.80	4.2690			121.97				3.378	24.377			4.802
SSE-180250-4			123.00	2.6698			180.84				4.843	15.245			7.120
SSE-180300-1			105.50	8.8908			135.53				4.154	50.768			5.336
SSE-180300-2			123.50	7.2988			160.08				4.862	41.677			6.302
SSE-180300-3			144.50	6.0368			188.73				5.689	34.471			7.430
SSE-180300-4	18.00	3.00	162.50	5.2578	43.7965	310.808	213.28	0.710	0.118	6.402	30.023	9.846	69.872	8.397	
SSE-180300-5			183.50	4.5698			241.93				7.224	26.094			9.525
SSE-180300-6			207.50	3.9758			274.66				8.169	22.702			10.813
SSE-180300-7			231.50	3.5798			306.09				9.114	20.441			12.051
SSE-185250-1			54.10	8.4478			73.27				2.130	48.238			2.885
SSE-185250-2			62.00	6.6998			86.17				2.441	38.257			3.393
SSE-185250-3			86.60	3.9658			127.43				3.409	22.645			5.017
SSE-185250-4	18.50	2.50	124.00	2.4598	22.5945	184.527	189.83	0.728	0.098	4.882	14.046	5.079	41.483	7.474	
SSE-185250-5			141.00	2.0888			218.52				5.551	11.927			8.603
SSE-185250-6			159.00	1.8158			248.18				6.260	10.368			9.771
SSE-185250-7			179.00	1.5798			281.50				7.047	9.021			11.083
SSE-185250-8			199.00	1.3978			314.85				7.835	7.982			12.396

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-049G-1			50.80	0.4024			107.55			2.000	2.298			4.234
SSE-049G-2			57.15	0.2629			144.04			2.250	1.501			5.671
SSE-049G-3			63.50	0.2098			172.37			2.500	1.198			6.786
SSE-049G-4	19.05	1.24	69.85	0.1573	2.6478	25.488	215.08	0.750	0.049	2.750	0.898	0.595	5.730	8.468
SSE-049G-5			76.20	0.1392			240.25			3.000	0.795			9.459
SSE-049G-6			82.55	0.1228			268.60			3.250	0.701			10.575
SSE-049G-7			88.90	0.1054			305.55			3.500	0.602			12.029
SSE-055G-1			50.80	0.5951			104.57			2.000	3.398			4.117
SSE-055G-2			57.15	0.4362			130.50			2.250	2.491			5.138
SSE-055G-3	19.05	1.40	63.50	0.3499	3.5500	35.547	154.94	0.750	0.055	2.500	1.998	0.798	7.991	6.100
SSE-055G-4			69.85	0.2793			184.40			2.750	1.595			7.260
SSE-055G-5			76.20	0.2448			206.89			3.000	1.398			8.145
SSE-055G-6			88.90	0.1748			271.97			3.500	0.998			10.708
SSE-063G-1			50.80	1.1555			90.60			2.000	6.598			3.567
SSE-063G-2			57.15	0.8578			110.77			2.250	4.898			4.361
SSE-063G-3			63.50	0.6651			132.65			2.500	3.798			5.222
SSE-063G-4			69.85	0.5601			151.97			2.750	3.198			5.983
SSE-063G-5	19.05	1.60	76.20	0.4725	5.3250	51.316	173.54	0.750	0.063	3.000	2.698	1.197	11.536	6.832
SSE-063G-6			88.90	0.3674			214.07			3.500	2.098			8.428
SSE-063G-7			101.60	0.2974			256.26			4.000	1.698			10.089
SSE-063G-8			114.30	0.2448			302.15			4.500	1.398			11.896
SSE-063G-9			127.00	0.2098			346.21			5.000	1.198			13.630
SSE-063G-10			139.70	0.1930			378.01			5.500	1.102			14.882
SSE-069G-1			50.80	1.7947			84.07			2.000	10.248			3.310
SSE-069G-2			57.15	1.3488			101.42			2.250	7.702			3.993
SSE-069G-3			63.50	1.0767			118.96			2.500	6.148			4.683
SSE-069G-4			69.85	0.8981			136.34			2.750	5.128			5.368
SSE-069G-5	19.05	1.75	76.20	0.7544	7.1589	66.869	155.34	0.750	0.069	3.000	4.308	1.609	15.033	6.116
SSE-069G-6			88.90	0.5898			190.13			3.500	3.368			7.486
SSE-069G-7			101.60	0.4777			226.58			4.000	2.728			8.921
SSE-069G-8			114.30	0.4059			261.39			4.500	2.318			10.291
SSE-069G-9			127.00	0.3499			297.65			5.000	1.998			11.718
SSE-069G-10			139.70	0.3096			332.55			5.500	1.768			13.092
SSE-075G-1			50.80	2.8367			76.85			2.000	16.198			3.026
SSE-075G-2			57.15	2.0640			92.95			2.250	11.786			3.660
SSE-075G-3			63.50	1.6283			108.88			2.500	9.298			4.287
SSE-075G-4			69.85	1.3832			123.28			2.750	7.898			4.853
SSE-075G-5			76.20	1.1716			139.27			3.000	6.690			5.483
SSE-075G-6	19.05	1.90	88.90	0.9103	8.8848	82.782	170.08	0.750	0.075	3.500	5.198	1.997	18.610	6.696
SSE-075G-7			101.60	0.7527			199.78			4.000	4.298			7.865
SSE-075G-8			114.30	0.6301			231.58			4.500	3.598			9.117
SSE-075G-9			127.00	0.5425			263.20			5.000	3.098			10.362
SSE-075G-10			139.70	0.4777			294.38			5.500	2.728			11.590
SSE-075G-11			152.40	0.4287			324.77			6.000	2.448			12.786

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-085G-1			50.80	5.4916			69.86			2.000	31.358			2.751
SSE-085G-2			57.15	4.0591			82.94			2.250	23.178			3.265
SSE-085G-3			63.50	3.2185			96.03			2.500	18.378			3.781
SSE-085G-4			69.85	2.5933			110.22			2.750	14.808			4.339
SSE-085G-5	19.05	2.16	76.20	2.2763	12.4446	117.140	122.19	0.750	0.085	3.000	12.998	2.798	26.334	4.811
SSE-085G-6			88.90	1.7504			148.71			3.500	9.995			5.855
SSE-085G-7			101.60	1.4357			174.52			4.000	8.198			6.871
SSE-085G-8			114.30	1.2110			200.75			4.500	6.915			7.904
SSE-085G-9			127.00	1.0609			225.68			5.000	6.058			8.885
SSE-093G-1			50.80	7.9679			67.90			2.000	45.498			2.673
SSE-093G-2			57.15	6.1641			79.25			2.250	35.198			3.120
SSE-093G-3			63.50	4.8332			91.69			2.500	27.598			3.610
SSE-093G-4			69.85	4.1151			102.96			2.750	23.498			4.053
SSE-093G-5	19.05	2.36	76.20	3.5722	15.5926	151.825	114.34	0.750	0.093	3.000	20.398	3.505	34.132	4.501
SSE-093G-6			88.90	2.7667			138.14			3.500	15.798			5.439
SSE-093G-7			101.60	2.2588			161.91			4.000	12.898			6.374
SSE-093G-8			114.30	1.9085			185.68			4.500	10.898			7.310
SSE-093G-9			127.00	1.6809			208.05			5.000	9.598			8.191
SSE-105G-1			50.80	14.6931			63.34			2.000	83.900			2.494
SSE-105G-2			57.15	11.2431			73.54			2.250	64.200			2.895
SSE-105G-3			63.50	9.1066			83.74			2.500	52.000			3.297
SSE-105G-4			69.85	7.6530			93.93			2.750	43.700			3.698
SSE-105G-5	19.05	2.67	76.20	6.6023	26.6741	210.985	104.12	0.750	0.105	3.000	37.700	5.997	47.431	4.099
SSE-105G-6			88.90	5.1662			124.58			3.500	29.500			4.905
SSE-105G-7			101.60	4.2556			144.91			4.000	24.300			5.705
SSE-105G-8			114.30	3.6076			165.39			4.500	20.600			6.511
SSE-105G-9			127.00	3.1348			185.80			5.000	17.900			7.315
SSE-112G-1			50.80	20.4352			61.47			2.000	116.688			2.420
SSE-112G-2			57.15	15.7313			71.01			2.250	89.828			2.796
SSE-112G-3			63.50	12.7874			80.55			2.500	73.018			3.171
SSE-112G-4			69.85	10.7717			90.09			2.750	61.508			3.547
SSE-112G-5	19.05	2.84	76.20	9.3041	35.5785	253.604	99.63	0.750	0.112	3.000	53.128	7.998	57.012	3.923
SSE-112G-6			88.90	7.3129			118.71			3.500	41.758			4.674
SSE-112G-7			101.60	6.0240			137.79			4.000	34.398			5.425
SSE-112G-8			114.30	5.1204			156.88			4.500	29.238			6.176
SSE-112G-9			127.00	4.4531			175.96			5.000	25.428			6.928
SSE-200180-1			46.00	1.7798			76.90			1.811	10.163			3.027
SSE-200180-2			56.80	1.1098			106.35			2.236	6.337			4.187
SSE-200180-3			73.00	0.7098			150.47			2.874	4.053			5.924
SSE-200180-4	20.00	1.80	100.00	0.4398	12.4054	67.396	225.03	0.787	0.071	3.937	2.511	2.789	15.151	8.860
SSE-200180-5			136.00	0.2898			325.75			5.354	1.655			12.825
SSE-200180-6			145.00	0.2748			345.11			5.709	1.569			13.587
SSE-200180-7			170.00	0.2258			413.54			6.693	1.289			16.281

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches							
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		
						Load P1	Extended Length Lt						Load P1	Extended Length Lt	
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in	
SSE-200220-1			90.90	1.4848			160.54				3.579	8.478			6.321
SSE-200220-2			112.00	1.0989			206.10				4.409	6.275			8.114
SSE-200220-3	20.00	2.20	134.00	0.8718	14.7150	118.122	252.61	0.787	0.087		5.276	4.978	3.308	26.555	9.945
SSE-200220-4			156.00	0.7228			299.07				6.142	4.127			11.774
SSE-200220-5			166.00	0.6708			320.16				6.535	3.830			12.605
SSE-200250-1			63.50	5.1208			93.10				2.500	29.241			3.665
SSE-200250-2			86.00	3.1598			133.97				3.386	18.043			5.275
SSE-200250-3			91.00	2.9118			143.06				3.583	16.627			5.632
SSE-200250-4	20.00	2.50	123.50	1.9289	20.2017	171.788	202.09	0.787	0.098		4.862	11.014	4.542	38.620	7.956
SSE-200250-5			163.50	1.3618			274.81				6.437	7.776			10.819
SSE-200250-6			191.00	1.1338			324.70				7.520	6.474			12.783
SSE-200250-7			203.50	1.0528			347.48				8.012	6.012			13.680
SSE-200280-1			53.80	12.2985			69.12				2.118	70.226			2.721
SSE-200280-2			70.60	7.6798			95.14				2.780	43.853			3.746
SSE-200280-3			95.80	4.9098			134.18				3.772	28.036			5.283
SSE-200280-4	20.00	2.80	138.00	3.0698	43.3454	231.794	199.39	0.787	0.110		5.433	17.529	9.744	52.109	7.850
SSE-200280-5			146.00	2.8930			211.14				5.748	16.519			8.313
SSE-200280-6			171.00	2.3928			249.76				6.732	13.663			9.833
SSE-200280-7			194.00	2.1477			281.74				7.638	12.264			11.092
SSE-200280-8			202.00	1.9613			298.08				7.953	11.199			11.736
SSE-055H-1			50.80	0.5601			101.49				2.000	3.198			3.995
SSE-055H-2	21.59	1.40	57.15	0.3674	3.1087	31.495	134.41	0.850	0.055		2.250	2.098	0.699	7.080	5.292
SSE-055H-3			63.50	0.2793			165.13				2.500	1.595			6.501
SSE-055H-4			69.85	0.2098			205.15				2.750	1.198			8.077
SSE-063H-1			57.15	0.6826			117.30				2.250	3.898			4.618
SSE-063H-2			63.50	0.5075			144.41				2.500	2.898			5.685
SSE-063H-3			69.85	0.4024			171.88				2.750	2.298			6.767
SSE-063H-4	21.59	1.60	76.20	0.3324	4.4424	45.504	199.73	0.850	0.063		3.000	1.898	0.999	10.230	7.864
SSE-063H-5			88.90	0.2448			256.62				3.500	1.398			10.103
SSE-063H-6			117.00	0.1558			380.55				4.606	0.890			14.982
SSE-063H-7			172.00	0.0948			605.14				6.772	0.541			23.824
SSE-075H-1			57.15	1.6984			95.98				2.250	9.698			3.779
SSE-075H-2			63.50	1.3131			113.73				2.500	7.498			4.477
SSE-075H-3			69.85	1.0504			132.64				2.750	5.998			5.222
SSE-075H-4			76.20	0.8753			151.55				3.000	4.998			5.967
SSE-075H-5	21.59	1.90	88.90	0.6651	7.5511	73.503	188.06	0.850	0.075		3.500	3.798	1.698	16.524	7.404
SSE-075H-6			101.60	0.5245			227.34				4.000	2.995			8.950
SSE-075H-7			114.30	0.4362			265.48				4.500	2.491			10.452
SSE-075H-8			120.65	0.4024			284.53				4.750	2.298			11.202
SSE-075H-9			127.00	0.3849			298.34				5.000	2.198			11.746

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



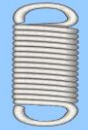
Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-220200-1			50.80	2.0298			84.18			2.000	11.590			3.314
SSE-220200-2			62.80	1.2698			116.16			2.472	7.251			4.573
SSE-220200-3			80.80	0.8098			164.47			3.181	4.624			6.475
SSE-220200-4	22.00	2.00	111.00	0.5098	16.2496	84.005	243.91	0.866	0.079	4.370	2.911	3.653	18.885	9.603
SSE-220200-5			151.00	0.3398			350.40			5.945	1.940			13.795
SSE-220200-6			170.00	0.2933			401.01			6.693	1.675			15.788
SSE-220200-7			186.00	0.2564			450.26			7.323	1.464			17.727
SSE-220320-1			60.20	16.0998			75.56			2.370	91.932			2.975
SSE-220320-2	22.00	3.20	79.40	9.9998	56.2902	303.598	104.13	0.866	0.126	3.126	57.100	12.655	68.251	4.100
SSE-220320-3			108.00	6.4798			146.17			4.252	37.001			5.755
SSE-220320-4			156.00	4.0198			217.52			6.142	22.954			8.564
SSE-225250-1			60.50	4.3258			92.00			2.382	24.701			3.622
SSE-225250-2			93.00	2.0298			160.14			3.661	11.590			6.305
SSE-225250-3			130.00	1.2588			238.26			5.118	7.188			9.380
SSE-225250-4	22.50	2.50	148.00	1.0698	17.7010	153.976	275.38	0.886	0.098	5.827	6.109	3.979	34.615	10.842
SSE-225250-5			165.00	0.9298			311.56			6.496	5.309			12.266
SSE-225250-6			185.00	0.8087			353.51			7.283	4.618			13.918
SSE-225250-7			205.00	0.7158			395.38			8.071	4.087			15.566
SSE-225250-8			225.00	0.6418			437.33			8.858	3.665			17.218
SSE-240220-1			55.60	2.3098			90.77			2.189	13.189			3.574
SSE-240220-2			68.80	1.4398			125.22			2.709	8.221			4.930
SSE-240220-3	24.00	2.20	88.60	0.9198	18.2011	99.438	176.92	0.945	0.087	3.488	5.252	4.092	22.355	6.965
SSE-240220-4			122.00	0.5798			262.11			4.803	3.311			10.319
SSE-240220-5			166.00	0.3798			379.89			6.535	2.169			14.956
SSE-240300-1			115.00	3.2398			180.55			4.528	18.500			7.108
SSE-240300-2			133.00	2.6598			212.85			5.236	15.188			8.380
SSE-240300-3			154.00	2.1998			250.55			6.063	12.561			9.864
SSE-240300-4	24.00	3.00	172.00	1.9158	27.4978	239.879	282.86	0.945	0.118	6.772	10.939	6.182	53.927	11.136
SSE-240300-5			193.00	1.6648			320.57			7.598	9.506			12.621
SSE-240300-6			217.00	1.4488			363.59			8.543	8.273			14.315
SSE-240300-7			241.00	1.2818			406.69			9.488	7.319			16.011
SSE-063J-1			63.50	0.4550			140.17			2.500	2.598			5.519
SSE-063J-2	25.40	1.60	69.85	0.3324	4.0011	38.885	174.80	1.000	0.063	2.750	1.898	0.899	8.742	6.882
SSE-063J-3			76.20	0.2623			209.17			3.000	1.498			8.235
SSE-063J-4			82.55	0.2098			248.82			3.250	1.198			9.796
SSE-075J-1			63.50	1.1031			114.88			2.500	6.299			4.523
SSE-075J-2			69.85	0.8052			140.24			2.750	4.598			5.521
SSE-075J-3			76.20	0.6301			166.15			3.000	3.598			6.541
SSE-075J-4	25.40	1.90	88.90	0.4550	6.2174	62.897	213.48	1.000	0.075	3.500	2.598	1.398	14.140	8.405
SSE-075J-5			101.60	0.3499			263.59			4.000	1.998			10.377
SSE-075J-6			114.30	0.2974			304.91			4.500	1.698			12.004
SSE-075J-7			127.00	0.2448			358.51			5.000	1.398			14.115

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-085J-1			69.85	1.4882			123.84			2.750	8.498			4.876
SSE-085J-2			76.20	1.1905			143.69			3.000	6.798			5.657
SSE-085J-3	25.40	2.16	88.90	0.8753	8.8848	89.234	180.70	1.000	0.085	3.500	4.998	1.997	20.061	7.114
SSE-085J-4			101.60	0.6826			219.30			4.000	3.898			8.634
SSE-085J-5			114.30	0.5601			257.77			4.500	3.198			10.148
SSE-085J-6			127.00	0.4725			297.05			5.000	2.698			11.695
SSE-095J-1			69.85	2.6225			112.29			2.750	14.975			4.421
SSE-095J-2			76.20	2.1362			128.31			3.000	12.198			5.051
SSE-095J-3			88.90	1.5233			161.97			3.500	8.698			6.377
SSE-095J-4	25.40	2.41	101.60	1.2080	11.9935	123.302	193.74	1.000	0.095	4.000	6.898	2.696	27.719	7.628
SSE-095J-5			114.30	0.9804			227.84			4.500	5.598			8.970
SSE-095J-6			127.00	0.8403			259.47			5.000	4.798			10.215
SSE-095J-7			139.70	0.7206			294.16			5.500	4.115			11.581
SSE-095J-8			152.40	0.6406			326.15			6.000	3.658			12.841
SSE-105J-1			69.85	4.0626			105.27			2.750	23.198			4.145
SSE-105J-2			76.20	3.4146			118.34			3.000	19.498			4.659
SSE-105J-3			88.90	2.4339			148.02			3.500	13.898			5.828
SSE-105J-4	25.40	2.67	101.60	1.9436	17.7696	161.674	175.64	1.000	0.105	4.000	11.098	3.995	36.346	6.915
SSE-105J-5			114.30	1.5793			205.42			4.500	9.018			8.087
SSE-105J-6			127.00	1.3534			233.33			5.000	7.728			9.186
SSE-105J-7			139.70	1.1677			262.93			5.500	6.668			10.352
SSE-105J-8			152.40	1.0276			292.43			6.000	5.868			11.513
SSE-115J-1			69.85	6.6837			97.99			2.750	38.165			3.858
SSE-115J-2			76.20	5.2818			111.81			3.000	30.160			4.402
SSE-115J-3			88.90	3.9750			136.21			3.500	22.698			5.363
SSE-115J-4	25.40	2.92	101.60	3.0994	22.2023	210.276	162.28	1.000	0.115	4.000	17.698	4.991	47.272	6.389
SSE-115J-5			114.30	2.5390			188.37			4.500	14.498			7.416
SSE-115J-6			127.00	2.1887			212.93			5.000	12.498			8.383
SSE-115J-7			139.70	1.8910			239.16			5.500	10.798			9.416
SSE-115J-8			152.40	1.6628			265.50			6.000	9.495			10.453
SSE-125J-1			69.85	10.1938			92.33			2.750	58.208			3.635
SSE-125J-2			76.20	8.3392			103.68			3.000	47.618			4.082
SSE-125J-3			88.90	6.1151			126.37			3.500	34.918			4.975
SSE-125J-4	25.40	3.18	101.60	4.8279	31.1459	260.285	149.06	1.000	0.125	4.000	27.568	7.002	58.514	5.869
SSE-125J-5			114.30	3.9890			171.74			4.500	22.778			6.761
SSE-125J-6			127.00	3.3971			194.45			5.000	19.398			7.656
SSE-125J-7			139.70	2.9593			217.13			5.500	16.898			8.548
SSE-125J-8			152.40	2.6213			239.81			6.000	14.968			9.442

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-135J-1			69.85	15.1008			88.77			2.750	86.228			3.495
SSE-135J-2			76.20	12.4126			99.22			3.000	70.878			3.906
SSE-135J-3			88.90	9.1553			120.11			3.500	52.278			4.729
SSE-135J-4	25.40	3.43	101.60	7.2517	40.0406	325.812	141.01	1.000	0.135	4.000	41.408	9.001	73.245	5.551
SSE-135J-5			114.30	6.0030			161.90			4.500	34.278			6.374
SSE-135J-6			127.00	5.1221			182.79			5.000	29.248			7.197
SSE-135J-7			139.70	4.4654			203.70			5.500	25.498			8.020
SSE-135J-8			152.40	3.9593			224.58			6.000	22.608			8.842
SSE-270200-1			62.80	0.9068			131.34			2.472	5.178			5.171
SSE-270200-2	27.00	2.00	78.80	0.5348	6.8843	69.038	195.02	1.063	0.079	3.102	3.054	1.548	15.520	7.678
SSE-270200-3			118.00	0.2638			353.61			4.646	1.506			13.922
SSE-270200-4			146.00	0.1948			465.06			5.748	1.112			18.310
SSE-280250-1			64.30	2.3898			106.58			2.531	13.646			4.196
SSE-280250-2			79.30	1.4998			146.67			3.122	8.564			5.774
SSE-280250-3	28.00	2.50	102.00	0.9598	24.1930	125.229	207.27	1.102	0.098	4.016	5.481	5.439	28.153	8.160
SSE-280250-4			139.00	0.5998			307.45			5.472	3.425			12.104
SSE-280250-5			189.00	0.3998			441.72			7.441	2.283			17.390
SSE-282320-1			76.40	5.9448			114.41			3.008	33.946			4.504
SSE-282320-2			118.00	2.7902			198.98			4.646	15.932			7.834
SSE-282320-3			166.00	1.7312			296.52			6.535	9.885			11.674
SSE-282320-4	28.20	3.20	188.00	1.4698	23.5360	249.490	341.73	1.110	0.126	7.402	8.393	5.291	56.088	13.454
SSE-282320-5			210.00	1.2778			386.83			8.268	7.296			15.230
SSE-282320-6			236.00	1.1118			439.23			9.291	6.349			17.293
SSE-282320-7			262.00	0.9838			491.68			10.315	5.618			19.357
SSE-282320-8			287.00	0.8818			543.24			11.299	5.035			21.387
SSE-085JK-1			76.20	1.2255			134.34			3.000	6.998			5.289
SSE-085JK-2			88.90	0.7527			183.56			3.500	4.298			7.227
SSE-085JK-3			101.60	0.5425			232.93			4.000	3.098			9.170
SSE-085JK-4			114.30	0.4375			277.17			4.500	2.498			10.912
SSE-085JK-5	28.58	2.16	127.00	0.3499	8.4337	79.685	330.63	1.125	0.085	5.000	1.998	1.896	17.914	13.017
SSE-085JK-6			139.70	0.2974			379.31			5.500	1.698			14.933
SSE-085JK-7			152.40	0.2623			424.00			6.000	1.498			16.693
SSE-085JK-8			165.10	0.2273			478.55			6.500	1.298			18.840
SSE-085JK-9			177.80	0.2098			517.41			7.000	1.198			20.370
SSE-105JK-1			76.20	3.4332			113.89			3.000	19.604			4.484
SSE-105JK-2			88.90	2.1898			148.00			3.500	12.504			5.827
SSE-105JK-3			101.60	1.6119			181.89			4.000	9.204			7.161
SSE-105JK-4			114.30	1.2791			215.47			4.500	7.304			8.483
SSE-105JK-5	28.58	2.67	127.00	1.0504	15.2003	144.610	250.20	1.125	0.105	5.000	5.998	3.417	32.510	9.850
SSE-105JK-6			139.70	0.8928			284.65			5.500	5.098			11.207
SSE-105JK-7			152.40	0.7888			316.47			6.000	4.504			12.459
SSE-105JK-8			165.10	0.6826			354.67			6.500	3.898			13.963
SSE-105JK-9			177.80	0.6136			388.69			7.000	3.504			15.303

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com



EXTENSION SPRINGS

MUSIC WIRE AND STAINLESS STEEL



Part Number	Metric							Inches						
	Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic		Outside Dia. De	Wire Dia. d	Free Length Lo	Spring Rate k	Initial Tension Pi	Safe Cyclic	
						Load P1	Extended Length Lt						Load P1	Extended Length Lt
	mm	mm	mm	N/mm	N	N	mm	in	in	in	lb/in	lb	lb	in
SSE-300280-1			69.80	3.1098			111.24			2.748	17.757			4.380
SSE-300280-2			86.60	1.9398			153.04			3.409	11.077			6.025
SSE-300280-3	30.00	2.80	112.00	1.2498	30.0083	158.892	215.12	1.181	0.110	4.409	7.137	6.746	35.720	8.469
SSE-300280-4			154.00	0.7798			319.28			6.063	4.453			12.570
SSE-300280-5			210.00	0.5198			457.95			8.268	2.968			18.029
SSE-320300-1			128.00	1.2298			260.28			5.039	7.022			10.247
SSE-320300-2			146.00	1.0098			307.10			5.748	5.766			12.091
SSE-320300-3			167.00	0.8348			361.87			6.575	4.767			14.247
SSE-320300-4	32.00	3.00	185.00	0.7278	20.4959	183.174	408.52	1.260	0.118	7.283	4.156	4.608	41.179	16.084
SSE-320300-5			206.00	0.6318			463.48			8.110	3.608			18.247
SSE-320300-6			230.00	0.5496			525.99			9.055	3.138			20.708
SSE-320300-7			254.00	0.4868			588.18			10.000	2.780			23.157

Spring rates and loads are for music wire.
For Stainless Steel, multiply figures shown by 0.833

Singapore Spring Pte Ltd
Tel: (065) 6841 7311
Email: sales@shincoil.com