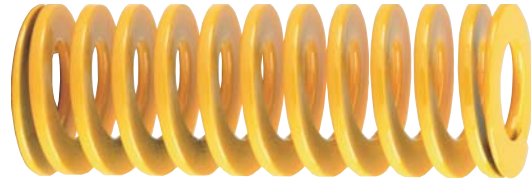
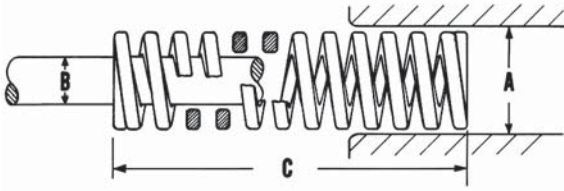


JIS Extra-Light Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
10	5	2.1 x 0.8	20	91-1020	1.00	10.0	10 (98.1)	9.0	9 (88.3)	8.0	8 (78.5)
			25	91-1025	0.80	12.5		11.2		10.0	
			30	91-1030	0.67	15.0		13.5		12.0	
			35	91-1035	0.57	17.5		15.7		14.0	
			40	91-1040	0.50	20.0		18.0		16.0	
			45	91-1045	0.44	22.5		20.2		18.0	
			50	91-1050	0.40	25.0		22.5		20.0	
			55	91-1055	0.36	27.5		24.7		22.0	
			60	91-1060	0.33	30.0		27.0		24.0	
			65	91-1065	0.31	32.5		29.2		26.0	
			70	91-1070	0.29	35.0		31.5		28.0	
			75	91-1075	0.27	37.5		33.7		30.0	
			80	91-1080	0.25	40.0		36.0		32.0	
12	6	2.5 x 1.2	20	91-1220	1.40	10.0	14 (137.3)	9.0	12.5 (122.6)	8.0	11 (107.9)
			25	91-1225	1.12	12.5		11.2		10.0	
			30	91-1230	0.93	15.0		13.5		12.0	
			35	91-1235	0.80	17.5		15.7		14.0	
			40	91-1240	0.70	20.0		18.0		16.0	
			45	91-1245	0.62	22.5		20.2		18.0	
			50	91-1250	0.56	25.0		22.5		20.0	
			55	91-1255	0.51	27.5		24.7		22.0	
			60	91-1260	0.47	30.0		27.0		24.0	
			65	91-1265	0.43	32.5		29.2		26.0	
			70	91-1270	0.40	35.0		31.5		28.0	
			75	91-1275	0.37	37.5		33.7		30.0	
			80	91-1280	0.35	40.0		36.0		32.0	
14	7	3.1 x 1.2	25	91-1425	1.44	12.5	18 (176.5)	11.2	16 (156.9)	10.0	14.5 (142.2)
			30	91-1430	1.20	15.0		13.5		12.0	
			35	91-1435	1.03	17.5		15.7		14.0	
			40	91-1440	0.90	20.0		18.0		16.0	
			45	91-1445	0.80	22.5		20.2		18.0	
			50	91-1450	0.72	25.0		22.5		20.0	
			55	91-1455	0.65	27.5		24.7		22.0	
			60	91-1460	0.60	30.0		27.0		24.0	
			65	91-1465	0.55	32.5		29.2		26.0	
			70	91-1470	0.51	35.0		31.5		28.0	
			75	91-1475	0.48	37.5		33.7		30.0	
			80	91-1480	0.45	40.0		36.0		32.0	
			90	91-1490	0.40	45.0		40.5		36.0	
16	8	3.5 x 1.4	25	91-1625	1.68	12.5	21 (206)	11.2	19 (186.3)	10.0	17 (166.7)
			30	91-1630	1.40	15.0		13.5		12.0	
			35	91-1635	1.20	17.5		15.7		14.0	
			40	91-1640	1.05	20.0		18.0		16.0	
			45	91-1645	0.94	22.5		20.0		18.0	
			50	91-1650	0.84	25.0		22.5		20.0	
			55	91-1655	0.77	27.5		24.7		22.0	
			60	91-1660	0.70	30.0		27.0		24.0	
			65	91-1665	0.65	32.5		29.2		26.0	
			70	91-1670	0.60	35.0		31.5		28.0	
			75	91-1675	0.56	37.5		33.7		30.0	
			80	91-1680	0.53	40.0		36.0		32.0	
			90	91-1690	0.47	45.0		40.5		36.0	
100	91-16100	0.42	50.0	45.0	40.0						

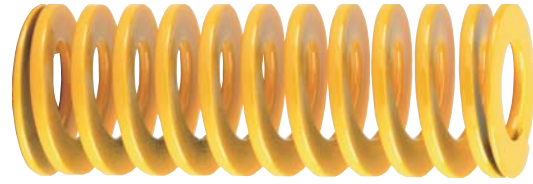
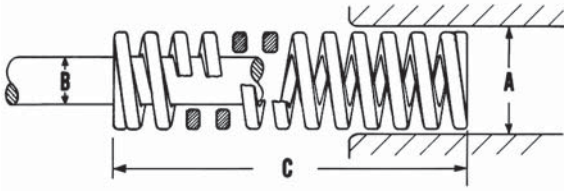
JIS Extra-Light Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
18	9	3.9 x 1.5	25	91-1825	2.08	12.5	26 (255)	11.2	23 (226)	10.0	21 (206)
			30	91-1830	1.74	15.0		13.5		12.0	
			35	91-1835	1.49	17.5		15.7		14.0	
			40	91-1840	1.30	20.0		18.0		16.0	
			45	91-1845	1.16	22.5		20.2		18.0	
			50	91-1850	1.04	25.0		22.5		20.0	
			55	91-1855	0.95	27.5		24.7		22.0	
			60	91-1860	0.87	30.0		27.0		24.0	
			65	91-1865	0.80	32.5		29.2		26.0	
			70	91-1870	0.74	35.0		31.5		28.0	
			75	91-1875	0.70	37.5		33.7		30.0	
			80	91-1880	0.65	40.0		36.0		32.0	
			90	91-1890	0.58	45.0		40.5		36.0	
100	91-18100	0.52	50.0	45.0	40.0						
20	11	4.0 x 1.7	25	91-2025	2.56	12.5	32 (313.8)	11.2	29 (284.4)	10.0	26 (255.0)
			30	91-2030	2.13	15.0		13.5		12.0	
			35	91-2035	1.83	17.5		15.7		14.0	
			40	91-2040	1.60	20.0		18.0		16.0	
			45	91-2045	1.42	22.5		20.2		18.0	
			50	91-2050	1.28	25.0		22.5		20.0	
			55	91-2055	1.16	27.5		24.7		22.0	
			60	91-2060	1.07	30.0		27.0		24.0	
			65	91-2065	0.98	32.5		29.2		26.0	
			70	91-2070	0.91	35.0		31.5		28.0	
			75	91-2075	0.85	37.5		33.7		30.0	
			80	91-2080	0.80	40.0		36.0		32.0	
			90	91-2090	0.71	45.0		40.5		36.0	
			100	91-20100	0.64	50.0		45.0		40.0	
			125	91-20125	0.51	62.5		56.2		50.0	
150	91-20150	0.43	75.0	67.5	60.0						
22	11	4.7 x 1.9	25	91-2225	3.20	12.5	40 (392)	11.2	36 (353)	10.0	32 (314)
			30	91-2230	2.67	15.0		13.5		12.0	
			35	91-2235	2.29	17.5		15.7		14.0	
			40	91-2240	2.00	20.0		18.0		16.0	
			45	91-2245	1.78	22.5		20.2		18.0	
			50	91-2250	1.60	25.0		22.5		20.0	
			55	91-2255	1.46	27.5		24.7		22.0	
			60	91-2260	1.33	30.0		27.0		24.0	
			65	91-2265	1.23	32.5		29.2		26.0	
			70	91-2270	1.14	35.0		31.5		28.0	
			75	91-2275	1.07	37.5		33.7		30.0	
			80	91-2280	1.00	40.0		36.0		32.0	
			90	91-2290	0.89	45.0		40.5		36.0	
			100	91-22100	0.8	50.0		45.0		40.0	
			125	91-22125	0.64	62.5		56.2		50.0	
150	91-22150	0.53	75.0	67.5	60.0						

JIS Extra-Light Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
25	13.5	5.6 x 2.2	25	91-2525	4.00	12.5	50 (490.3)	11.2	45 (441.3)	10.0	40 (392.3)
			30	91-2530	3.33	15.0		13.5		12.0	
			35	91-2535	2.85	17.5		15.7		14.0	
			40	91-2540	2.50	20.0		18.0		16.0	
			45	91-2545	2.22	22.5		20.2		18.0	
			50	91-2550	2.00	25.0		22.5		20.0	
			55	91-2555	1.82	27.5		24.7		22.0	
			60	91-2560	1.67	30.0		27.0		24.0	
			65	91-2565	1.54	32.5		29.2		26.0	
			70	91-2570	1.43	35.0		31.5		28.0	
			75	91-2575	1.33	37.5		33.7		30.0	
			80	91-2580	1.25	40.0		36.0		32.0	
			90	91-2590	1.11	45.0		40.5		36.0	
			100	91-25100	1.00	50.0		45.0		40.0	
			125	91-25125	0.80	62.5		56.2		50.0	
			150	91-25150	0.67	75.0		67.5		60.0	
			175	91-25175	0.57	87.5		78.7		70.0	
27	13.5	6.4 x 2.2	25	91-2725	4.80	12.5	60 (588)	11.2	54 (530)	10.0	48 (471)
			30	91-2730	4.00	15.0		13.5		12.0	
			35	91-2735	3.43	17.5		15.7		14.0	
			40	91-2740	3.00	20.0		18.0		16.0	
			45	91-2745	2.67	22.5		20.2		18.0	
			50	91-2750	2.40	25.0		22.5		20.0	
			55	91-2755	2.18	27.5		24.7		22.0	
			60	91-2760	2.00	30.0		27.0		24.0	
			65	91-2765	1.85	32.5		29.2		26.0	
			70	91-2770	1.71	35.0		31.5		28.0	
			75	91-2775	1.60	37.5		33.7		30.0	
			80	91-2780	1.50	40.0		36.0		32.0	
			90	91-2790	1.33	45.0		40.5		36.0	
			100	91-27100	1.20	50.0		45.0		40.0	
			125	91-27125	0.96	62.5		56.2		50.0	
			150	91-27150	0.80	75.0		67.5		60.0	
			175	91-27175	0.69	87.5		78.7		70.0	
30	16	6.0 x 2.7	25	91-3025	5.80	12.5	72 (706.1)	11.2	65 (637.4)	10.0	58 (568.8)
			30	91-3030	4.80	15.0		13.5		12.0	
			35	91-3035	4.13	17.5		15.7		14.0	
			40	91-3040	3.60	20.0		18.0		16.0	
			45	91-3045	3.21	22.5		20.2		18.0	
			50	91-3050	2.88	25.0		22.5		20.0	
			55	91-3055	2.63	27.5		24.7		22.0	
			60	91-3060	2.40	30.0		27.0		24.0	
			65	91-3065	2.22	32.5		29.2		26.0	
			70	91-3070	2.05	35.0		31.5		28.0	
			75	91-3075	1.93	37.5		33.7		30.0	
			80	91-3080	1.80	40.0		36.0		32.0	
			90	91-3090	1.60	45.0		40.5		36.0	
			100	91-30100	1.44	50.0		45.0		40.0	
			125	91-30125	1.15	62.5		56.2		50.0	
			150	91-30150	0.96	75.0		67.5		60.0	
			175	91-30175	0.82	87.5		78.7		70.0	
200	91-30200	0.72	100.0	90.0	80.0						

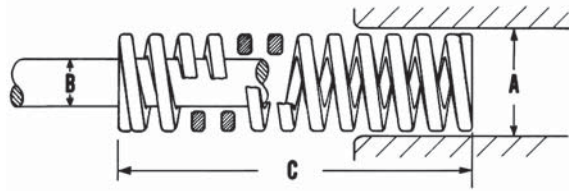
JIS Extra-Light Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm 1 mm	LOAD-DEFLECTION TABLE											
						0.3 million		0.5 million		1 million							
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)						
35	19	7.4 x 2.8	40	91-3540	4.90	20.0	98 (961.1)	18.0	88 (863.0)	16.0	78 (764.9)						
			45	91-3545	4.36	22.5		20.2		18.0							
			50	91-3550	3.92	25.0		22.5		20.0							
			55	91-3555	3.56	27.5		24.7		22.0							
			60	91-3560	3.26	30.0		27.0		24.0							
			65	91-3565	3.02	32.5		29.2		26.0							
			70	91-3570	2.80	35.0		31.5		28.0							
			75	91-3575	2.61	37.5		33.7		30.0							
			80	91-3580	2.45	40.0		36.0		32.0							
			90	91-3590	2.17	45.0		40.5		36.0							
			100	91-35100	1.96	50.0		45.0		40.0							
			125	91-35125	1.57	62.5		56.2		50.0							
			150	91-35150	1.30	75.0		67.5		60.0							
			175	91-35175	1.12	87.5		78.7		70.0							
200	91-35200	0.98	100.0	90.0	80.0												
40	22	8.5 x 3.2	40	91-4040	6.38	20.0	128 (1255.3)	18.0	115 (1127.8)	16.0	102 (1000.3)						
			50	91-4050	5.12	25.0		22.5		18.0							
			60	91-4060	4.26	30.0		27.0		20.0							
			70	91-4070	3.65	35.0		31.5		22.0							
			80	91-4080	3.20	40.0		36.0		24.0							
			90	91-4090	2.84	45.0		40.5		26.0							
			100	91-40100	2.56	50.0		45.0		28.0							
			125	91-40125	2.04	62.5		56.2		30.0							
			150	91-40150	1.70	75.0		67.5		32.0							
			175	91-40175	1.46	87.5		78.7		36.0							
			200	91-40200	1.28	100.0		90.0		40.0							
			250	91-40250	1.02	125.0		112.5		50.0							
			50	27.5	10.6 x 4.0	50		91-5050		8.00		25.0	200 (1961.3)	22.5	180 (1765.2)	20.0	160 (1569.1)
						60		91-5060		6.66		30.0		27.0		24.0	
70	91-5070	5.71				35.0	31.5	28.0									
80	91-5080	5.00				40.0	36.0	32.0									
90	91-5090	4.44				45.0	40.5	36.0									
100	91-50100	4.00				50.0	45.0	40.0									
125	91-50125	3.20				62.5	56.2	50.0									
150	91-50150	2.66				75.0	67.5	60.0									
175	91-50175	2.28				87.5	78.7	70.0									
200	91-50200	2.00				100.0	90.0	80.0									
250	91-50250	1.60				125.0	112.5	100.0									
300	91-50300	1.33				150.0	135.0	120.0									
60	33	13.0 x 4.8				60	91-6060	9.59	30.0	288 (2824.3)	27.0	259 (2539.9)		24.0		230 (2255.5)	
						70	91-6070	8.22	35.0		31.5			28.0			
			80	91-6080	7.19	40.0	36.0	32.0									
			90	91-6090	6.40	45.0	40.5	36.0									
			100	91-60100	5.76	50.0	45.0	40.0									
			125	91-60125	4.60	62.5	56.2	50.0									
			150	91-60150	3.84	75.0	67.5	60.0									
			175	91-60175	3.29	87.5	78.7	70.0									
			200	91-60200	2.88	100.0	90.0	80.0									
			250	91-60250	2.30	125.0	112.5	100.0									
			300	91-60300	1.92	150.0	135.0	120.0									

JIS Light Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
10	5	2.0 x 1.0	20	92-1020	1.81	8.0	14.5 (142.2)	7.2	13 (127.5)	6.4	11.5 (112.8)
			25	92-1025	1.45	10.0		9.0		8.0	
			30	92-1030	1.21	12.0		10.8		9.6	
			35	92-1035	1.03	14.0		12.6		11.2	
			40	92-1040	0.90	16.0		14.4		12.8	
			45	92-1045	0.80	18.0		16.2		14.4	
			50	92-1050	0.73	20.0		18.0		16.0	
			55	92-1055	0.66	22.0		19.8		17.6	
			60	92-1060	0.60	24.0		21.6		19.2	
			65	92-1065	0.55	26.0		23.4		20.8	
			70	92-1070	0.51	28.0		25.2		22.4	
			75	92-1075	0.48	30.0		27.0		24.0	
			80	92-1080	0.45	32.0		28.8		25.6	
12	6	2.6 x 1.3	20	92-1220	2.63	8.0	21 (206)	7.2	19 (186.3)	6.4	17 (166.7)
			25	92-1225	2.10	10.0		9.0		8.0	
			30	92-1230	1.75	12.0		10.8		9.6	
			35	92-1235	1.50	14.0		12.6		11.2	
			40	92-1240	1.32	16.0		14.4		12.8	
			45	92-1245	1.17	18.0		16.2		14.4	
			50	92-1250	1.05	20.0		18.0		16.0	
			55	92-1255	0.96	22.0		19.8		17.6	
			60	92-1260	0.88	24.0		21.6		19.2	
			65	92-1265	0.81	26.0		23.4		20.8	
			70	92-1270	0.75	28.0		25.2		22.4	
			75	92-1275	0.70	30.0		27.0		24.0	
			80	92-1280	0.66	32.0		28.8		25.6	
14	7	3.0 x 1.4	25	92-1425	2.80	10.0	28 (275)	9.0	25 (245)	8.0	22 (216)
			30	92-1430	2.34	12.0		10.8		9.6	
			35	92-1435	2.00	14.0		12.6		11.2	
			40	92-1440	1.75	16.0		14.4		12.8	
			45	92-1445	1.56	18.0		16.2		14.4	
			50	92-1450	1.40	20.0		18.0		16.0	
			55	92-1455	1.27	22.0		19.8		17.6	
			60	92-1460	1.17	24.0		21.6		19.2	
			65	92-1465	1.08	26.0		23.4		20.8	
			70	92-1470	1.00	28.0		25.2		22.4	
			75	92-1475	0.93	30.0		27.0		24.0	
			80	92-1480	0.87	32.0		28.8		25.6	
			90	92-1490	0.77	36.0		32.4		28.8	
16	8	3.6 x 1.6	25	92-1625	3.50	10.0	35 (343)	9.0	32 (314)	8.0	28 (275)
			30	92-1630	2.92	12.0		10.8		9.6	
			35	92-1635	2.50	14.0		12.6		11.2	
			40	92-1640	2.19	16.0		14.4		12.8	
			45	92-1645	1.95	18.0		16.2		14.4	
			50	92-1650	1.75	20.0		18.0		16.0	
			55	92-1655	1.60	22.0		19.8		17.6	
			60	92-1660	1.46	24.0		21.6		19.2	
			65	92-1665	1.35	26.0		23.4		20.8	
			70	92-1670	1.25	28.0		25.2		22.4	
			75	92-1675	1.17	30.0		27.0		24.0	
			80	92-1680	1.10	32.0		28.8		25.6	
			90	92-1690	0.98	36.0		32.4		28.8	
100	92-16100	0.88	40.0	36.0	32.0						

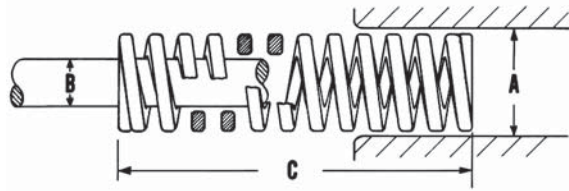
JIS Light Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
18	9	4.0 x 1.8	25	92-1825	4.30	10.0	43 (422)	9.0	39 (382)	8.0	34 (333)
			30	92-1830	3.58	12.0		10.8		9.6	
			35	92-1835	3.07	14.0		12.6		11.2	
			40	92-1840	2.69	16.0		14.4		12.8	
			45	92-1845	2.39	18.0		16.2		14.4	
			50	92-1850	2.15	20.0		18.0		16.0	
			55	92-1855	1.96	22.0		19.8		17.6	
			60	92-1860	1.79	24.0		21.6		19.2	
			65	92-1865	1.66	26.0		23.4		20.8	
			70	92-1870	1.54	28.0		25.2		22.4	
			75	92-1875	1.44	30.0		27.0		24.0	
			80	92-1880	1.35	32.0		28.8		25.6	
			90	92-1890	1.20	36.0		32.4		28.8	
100	92-18100	1.07	40.0	36.0	32.0						
20	10	4.5 x 2.0	25	92-2025	5.40	10.0	54 (529.6)	9.0	49 (481)	8.0	43 (421.7)
			30	92-2030	4.50	12.0		10.8		9.6	
			35	92-2035	3.86	14.0		12.6		11.2	
			40	92-2040	3.38	16.0		14.4		12.8	
			45	92-2045	3.00	18.0		16.2		14.4	
			50	92-2050	2.70	20.0		18.0		16.0	
			55	92-2055	2.45	22.0		19.8		17.6	
			60	92-2060	2.25	24.0		21.6		19.2	
			65	92-2065	2.08	26.0		23.4		20.8	
			70	92-2070	1.93	28.0		25.2		22.4	
			75	92-2075	1.80	30.0		27.0		24.0	
			80	92-2080	1.69	32.0		28.8		25.6	
			90	92-2090	1.50	36.0		32.4		28.8	
100	92-20100	1.35	40.0	36.0	32.0						
125	92-20125	1.08	50.0	45.0	40.0						
150	92-20150	0.90	60.0	54.0	48.0						
22	11	4.9 x 2.2	25	92-2225	6.70	10.0	67 (657)	9.0	60 (588)	8.0	54 (530)
			30	92-2230	5.60	12.0		10.8		9.6	
			35	92-2235	4.80	14.0		12.6		11.2	
			40	92-2240	4.20	16.0		14.4		12.8	
			45	92-2245	3.72	18.0		16.2		14.4	
			50	92-2250	3.35	20.0		18.0		16.0	
			55	92-2255	3.05	22.0		19.8		17.6	
			60	92-2260	2.80	24.0		21.6		19.2	
			65	92-2265	2.58	26.0		23.4		20.8	
			70	92-2270	2.40	28.0		25.2		22.4	
			75	92-2275	2.23	30.0		27.0		24.0	
			80	92-2280	2.10	32.0		28.8		25.6	
			90	92-2290	1.86	36.0		32.4		28.8	
100	92-22100	1.68	40.0	36.0	32.0						
125	92-22125	1.34	50.0	45.0	40.0						
150	92-22150	1.12	60.0	54.0	48.0						

JIS Light Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
25	12.5	5.7 x 2.5	25	92-2525	8.40	10.0	84 (823.8)	9.0	76 (745)	8.0	67 (657.1)
			30	92-2530	7.00	12.0		10.8		9.6	
			35	92-2535	6.00	14.0		12.6		11.2	
			40	92-2540	5.25	16.0		14.4		12.8	
			45	92-2545	4.67	18.0		16.2		14.4	
			50	92-2550	4.20	20.0		18.0		16.0	
			55	92-2555	3.82	22.0		19.8		17.6	
			60	92-2560	3.50	24.0		21.6		19.2	
			65	92-2565	3.23	26.0		23.4		20.8	
			70	92-2570	3.00	28.0		25.2		22.4	
			75	92-2575	2.80	30.0		27.0		24.0	
			80	92-2580	2.63	32.0		28.8		25.6	
			90	92-2590	2.33	36.0		32.4		28.8	
			100	92-25100	2.10	40.0		36.0		32.0	
			125	92-25125	1.68	50.0		45.0		40.0	
			150	92-25150	1.40	60.0		54.0		48.0	
			175	92-25175	1.20	70.0		63.0		56.0	
27	13.5	6.3 x 2.7	25	92-2725	10.00	10.0	100 (981)	9.0	90 (883)	8.0	80 (785)
			30	92-2730	8.33	12.0		10.8		9.6	
			35	92-2735	7.14	14.0		12.6		11.2	
			40	92-2740	6.25	16.0		14.4		12.8	
			45	92-2745	5.56	18.0		16.2		14.4	
			50	92-2750	5.00	20.0		18.0		16.0	
			55	92-2755	4.55	22.0		19.8		17.6	
			60	92-2760	4.17	24.0		21.6		19.2	
			65	92-2765	3.85	26.0		23.4		20.8	
			70	92-2770	3.57	28.0		25.2		22.4	
			75	92-2775	3.33	30.0		27.0		24.0	
			80	92-2780	3.13	32.0		28.8		25.6	
			90	92-2790	2.78	36.0		32.4		28.8	
			100	92-27100	2.50	40.0		36.0		32.0	
			125	92-27125	2.00	50.0		45.0		40.0	
			150	92-27150	1.67	60.0		54.0		48.0	
			175	92-27175	1.43	70.0		63.0		56.0	
30	15	6.8 x 3.0	25	92-3025	12.11	10.0	121 (1186.6)	9.0	109 (1068.9)	8.0	97 (951.3)
			30	92-3030	10.08	12.0		10.8		9.6	
			35	92-3035	8.65	14.0		12.6		11.2	
			40	92-3040	7.56	16.0		14.4		12.8	
			45	92-3045	6.73	18.0		16.2		14.4	
			50	92-3050	6.05	20.0		18.0		16.0	
			55	92-3055	5.50	22.0		19.8		17.6	
			60	92-3060	5.04	24.0		21.6		19.2	
			65	92-3065	4.65	26.0		23.4		20.8	
			70	92-3070	4.32	28.0		25.2		22.4	
			75	92-3075	4.03	30.0		27.0		24.0	
			80	92-3080	3.78	32.0		28.8		25.6	
			90	92-3090	3.36	36.0		32.4		28.8	
			100	92-30100	3.02	40.0		36.0		32.0	
			125	92-30125	2.42	50.0		45.0		40.0	
			150	92-30150	2.01	60.0		54.0		48.0	
			175	92-30175	1.72	70.0		63.0		56.0	
200	92-30200	1.51	80.0	72.0	64.0						

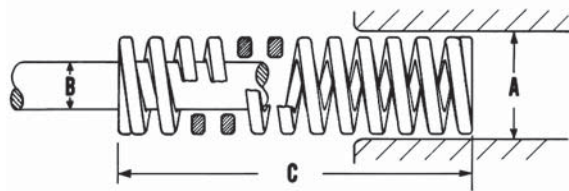
JIS Light Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE											
						0.3 million		0.5 million		1 million							
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)						
35	17.5	8.2 x 3.2	40	92-3540	10.31	16.0	165 (1618.1)	14.4	149 (1461.2)	12.8	132 (1294.5)						
			45	92-3545	9.17	18.0		16.2		14.4							
			50	92-3550	8.25	20.0		18.0		16.0							
			55	92-3555	7.50	22.0		19.8		17.6							
			60	92-3560	6.87	24.0		21.6		19.2							
			65	92-3565	6.35	26.0		23.4		20.8							
			70	92-3570	5.89	28.0		25.2		22.4							
			75	92-3575	5.50	30.0		27.0		24.0							
			80	92-3580	5.15	32.0		28.8		25.6							
			90	92-3590	4.58	36.0		32.4		28.8							
			100	92-35100	4.12	40.0		36.0		32.0							
			125	92-35125	3.30	50.0		45.0		40.0							
			150	92-35150	2.75	60.0		54.0		48.0							
			175	92-35175	2.35	70.0		63.0		56.0							
200	92-35200	2.06	80.0	72.0	64.0												
40	20	9.5 x 3.8	40	92-4040	13.50	16.0	216 (2118.2)	14.4	194 (1902.5)	12.8	173 (1696.6)						
			50	92-4050	10.80	20.0		18.0		16.0							
			60	92-4060	9.00	24.0		21.6		19.2							
			70	92-4070	7.71	28.0		25.2		22.4							
			80	92-4080	6.75	32.0		28.8		25.6							
			90	92-4090	6.00	36.0		32.4		28.8							
			100	92-40100	5.40	40.0		36.0		32.0							
			125	92-40125	4.32	50.0		45.0		40.0							
			150	92-40150	3.60	60.0		54.0		48.0							
			175	92-40175	3.08	70.0		63.0		56.0							
			200	92-40200	2.70	80.0		72.0		64.0							
			250	92-40250	2.16	100.0		90.0		80.0							
			50	25	12.1 x 4.8	50		92-5050		16.89		20.0	338 (3314.7)	18.0	304 (2981.2)	16.0	270 (2647.8)
						60		92-5060		14.08		24.0		21.6		19.2	
70	92-5070	12.07				28.0	25.2	22.4									
80	92-5080	10.56				32.0	28.8	25.6									
90	92-5090	9.38				36.0	32.4	28.8									
100	92-50100	8.45				40.0	36.0	32.0									
125	92-50125	6.76				50.0	45.0	40.0									
150	92-50150	5.63				60.0	54.0	48.0									
175	92-50175	4.82				70.0	63.0	56.0									
200	92-50200	4.22				80.0	72.0	64.0									
250	92-50250	3.38				100.0	90.0	80.0									
300	92-50300	2.81				120.0	108.0	96.0									
60	30	14.4 x 5.7				60	92-6060	20.25	24.0	486 (4766.0)	21.6	437 (4285.5)		19.2		389 (3814.8)	
						70	92-6070	17.35	28.0		25.2			22.4			
			80	92-6080	15.18	32.0	28.8	25.6									
			90	92-6090	13.50	36.0	32.4	28.8									
			100	92-60100	12.15	40.0	36.0	32.0									
			125	92-60125	9.72	50.0	45.0	40.0									
			150	92-60150	8.10	60.0	54.0	48.0									
			175	92-60175	6.94	70.0	63.0	56.0									
			200	92-60200	6.07	80.0	72.0	64.0									
			250	92-60250	4.86	100.0	90.0	80.0									
			300	92-60300	4.05	120.0	108.0	96.0									

JIS Medium Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm 1 mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
10	5	2.0 x 1.4	20	93-1020	3.13	6.4	20 (196.1)	5.8	18 (176.5)	5.1	16 (156.9)
			25	93-1025	2.50	8.0		7.2		6.4	
			30	93-1030	2.08	9.6		8.6		7.7	
			35	93-1035	1.78	11.2		10.1		9.0	
			40	93-1040	1.56	12.8		11.5		10.2	
			45	93-1045	1.38	14.4		13.0		11.5	
			50	93-1050	1.25	16.0		14.4		12.8	
			55	93-1055	1.13	17.6		15.8		14.1	
			60	93-1060	1.04	19.2		17.3		15.4	
			65	93-1065	0.96	20.8		18.7		16.6	
			70	93-1070	0.89	22.4		20.2		17.9	
			75	93-1075	0.83	24.0		21.6		19.2	
			80	93-1080	0.78	25.6		23.0		20.5	
12	6	2.5 x 1.5	20	93-1220	4.53	6.4	29 (284.4)	5.8	26 (255.0)	5.1	23 (225.6)
			25	93-1225	3.62	8.0		7.2		6.4	
			30	93-1230	3.02	9.6		8.6		7.7	
			35	93-1235	2.58	11.2		10.1		9.0	
			40	93-1240	2.27	12.8		11.5		10.2	
			45	93-1245	2.01	14.4		13.0		11.5	
			50	93-1250	1.81	16.0		14.4		12.8	
			55	93-1255	1.64	17.6		15.8		14.1	
			60	93-1260	1.51	19.2		17.3		15.4	
			65	93-1265	1.39	20.8		18.7		16.6	
			70	93-1270	1.29	22.4		20.2		17.9	
			75	93-1270	1.20	24.0		21.6		19.2	
			80	93-1280	1.13	25.6		23.0		20.5	
14	7	3.0 x 1.8	25	93-1425	4.87	8.0	39 (382.5)	7.2	35 (343.2)	6.4	31 (304.0)
			30	93-1430	4.06	9.6		8.6		7.7	
			35	93-1435	3.48	11.2		10.1		9.0	
			40	93-1440	3.04	12.8		11.5		10.2	
			45	93-1445	2.70	14.4		13.0		11.5	
			50	93-1450	2.43	16.0		14.4		12.8	
			55	93-1455	2.21	17.6		15.8		14.1	
			60	93-1460	2.03	19.2		17.3		15.4	
			65	93-1465	1.87	20.8		18.7		16.6	
			70	93-1470	1.74	22.4		20.2		17.9	
			75	93-1475	1.62	24.0		21.6		19.2	
			80	93-1480	1.52	25.6		23.0		20.5	
			90	93-1490	1.35	28.8		25.9		23.0	
16	8	3.5 x 2.1	25	93-1625	6.39	8.0	51 (500.1)	7.2	46 (451.1)	6.4	41 (402.1)
			30	93-1630	5.32	9.6		8.6		7.7	
			35	93-1635	4.55	11.2		10.1		9.0	
			40	93-1640	3.98	12.8		11.5		10.2	
			45	93-1645	3.54	14.4		13.0		11.5	
			50	93-1650	3.18	16.0		14.4		12.8	
			55	93-1655	2.89	17.6		15.8		14.1	
			60	93-1660	2.65	19.2		17.3		15.4	
			65	93-1665	2.45	20.8		18.7		16.6	
			70	93-1670	2.27	22.4		20.2		17.9	
			75	93-1675	2.11	24.0		21.6		19.2	
			80	93-1680	1.99	25.6		23.0		20.5	
			90	93-1690	1.77	28.8		25.9		23.0	
100	93-16100	1.59	32.0	28.8	25.6						

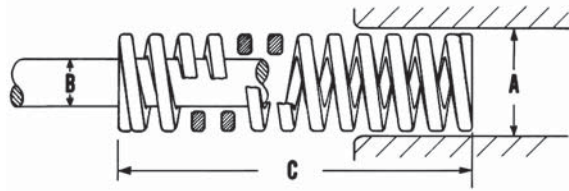
JIS Medium Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
18	9	4.0 x 2.2	25	93-1825	8.12	8.0	65 (637.4)	7.2	58 (568.8)	6.4	52 (510.0)
			30	93-1830	6.77	9.6		8.6		7.7	
			35	93-1835	5.80	11.2		10.1		9.0	
			40	93-1840	5.07	12.8		11.5		10.2	
			45	93-1845	4.51	14.4		13.0		11.5	
			50	93-1850	4.06	16.0		14.4		12.8	
			55	93-1855	3.69	17.6		15.8		14.1	
			60	93-1860	3.38	19.2		17.3		15.4	
			65	93-1865	3.12	20.8		18.7		16.6	
			70	93-1870	2.90	22.4		20.2		17.9	
			75	93-1875	2.70	24.0		21.6		19.2	
			80	93-1880	2.53	25.6		23.0		20.5	
			90	93-1890	2.25	28.8		25.9		23.0	
100	93-18100	2.02	32.0	28.8	25.6						
20	10	4.5 x 2.5	25	93-2025	10.00	8.0	80 (784.5)	7.2	72 (706.1)	6.4	64 (627.6)
			30	93-2030	8.33	9.6		8.6		7.7	
			35	93-2035	7.14	11.2		10.1		9.0	
			40	93-2040	6.25	12.8		11.5		10.2	
			45	93-2045	5.55	14.4		13.0		11.5	
			50	93-2050	5.00	16.0		14.4		12.8	
			55	93-2055	4.54	17.6		15.8		14.1	
			60	93-2060	4.16	19.2		17.3		15.4	
			65	93-2065	3.84	20.8		18.7		16.6	
			70	93-2070	3.57	22.4		20.2		17.9	
			75	93-2075	3.33	24.0		21.6		19.2	
			80	93-2080	3.12	25.6		23.0		20.5	
			90	93-2090	2.77	28.8		25.9		23.0	
100	93-20100	2.50	32.0	28.8	25.6						
125	93-20125	2.00	40.0	36.0	32.0						
150	93-20150	1.67	48.0	43.2	38.4						
22	11	5.0 x 2.8	25	93-2225	12.13	8.0	97 (951.3)	7.2	87 (853.2)	6.4	77 (755.1)
			30	93-2230	10.10	9.6		8.6		7.7	
			35	93-2235	8.65	11.2		10.1		9.0	
			40	93-2240	7.57	12.8		11.5		10.2	
			45	93-2245	6.74	14.4		13.0		11.5	
			50	93-2250	6.06	16.0		14.4		12.8	
			55	93-2255	5.50	17.6		15.8		14.1	
			60	93-2260	5.05	19.2		17.3		15.4	
			65	93-2265	4.66	20.8		18.7		16.6	
			70	93-2270	4.33	22.4		20.2		17.9	
			75	93-2275	4.04	24.0		21.6		19.2	
			80	93-2280	3.78	25.6		23.0		20.5	
			90	93-2290	3.36	28.8		25.9		23.0	
100	93-22100	3.03	32.0	28.8	25.6						
125	93-22125	2.42	40.0	36.0	32.0						
150	93-22150	2.01	48.0	43.2	38.4						

JIS Medium Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
25	12.5	5.7 x 3.1	25	93-2525	15.63	8.0	125 (1225.8)	7.2	112 (1098.3)	6.4	100 (980.7)
			30	93-2530	13.02	9.6		8.6		7.7	
			35	93-2535	11.20	11.2		10.1		9.0	
			40	93-2540	9.76	12.8		11.5		10.2	
			45	93-2545	8.68	14.4		13.0		11.5	
			50	93-2550	7.81	16.0		14.4		12.8	
			55	93-2555	7.10	17.6		15.8		14.1	
			60	93-2560	6.51	19.2		17.3		15.4	
			65	93-2565	6.00	20.8		18.7		16.6	
			70	93-2570	5.58	22.4		20.2		17.9	
			75	93-2575	5.21	24.0		21.6		19.2	
			80	93-2580	4.88	25.6		23.0		20.5	
			90	93-2590	4.34	28.8		25.9		23.0	
			100	93-25100	3.90	32.0		28.8		25.6	
			125	93-25125	3.12	40.0		36.0		32.0	
			150	93-25150	2.60	48.0		43.2		38.4	
			175	93-25175	2.23	56.0		50.4		44.8	
27	13.5	6.1 x 3.4	25	93-2725	18.25	8.0	146 (1431.8)	7.2	131 (1284.7)	6.4	117 (1147.4)
			30	93-2730	15.20	9.6		8.6		7.7	
			35	93-2735	13.04	11.2		10.1		9.0	
			40	93-2740	11.40	12.8		11.5		10.2	
			45	93-2745	10.14	14.4		13.0		11.5	
			50	93-2750	9.12	16.0		14.4		12.8	
			55	93-2755	8.30	17.6		15.8		14.1	
			60	93-2760	7.60	19.2		17.3		15.4	
			65	93-2765	7.00	20.8		18.7		16.6	
			70	93-2770	6.51	22.4		20.2		17.9	
			75	93-2775	6.08	24.0		21.6		19.2	
			80	93-2780	5.70	25.6		23.0		20.5	
			90	93-2790	5.06	28.8		25.9		23.0	
			100	93-27100	4.56	32.0		28.8		25.6	
			125	93-27125	3.65	40.0		36.0		32.0	
			150	93-27150	3.04	48.0		43.2		38.4	
			175	93-27175	2.61	56.0		50.4		44.8	
30	15	6.5 x 4.0	25	93-3025	22.50	8.0	180 (1765.2)	7.2	161 (1578.9)	6.4	144 (1412.2)
			30	93-3030	18.75	9.6		8.6		7.7	
			35	93-3035	16.10	11.2		10.1		9.0	
			40	93-3040	14.06	12.8		11.5		10.2	
			45	93-3045	12.50	14.4		13.0		11.5	
			50	93-3050	11.25	16.0		14.4		12.8	
			55	93-3055	10.23	17.6		15.8		14.1	
			60	93-3060	9.37	19.2		17.3		15.4	
			65	93-3065	8.65	20.8		18.7		16.6	
			70	93-3070	8.03	22.4		20.2		17.9	
			75	93-3075	7.50	24.0		21.6		19.2	
			80	93-3080	7.03	25.6		23.0		20.5	
			90	93-3090	6.25	28.8		25.9		23.0	
			100	93-30100	5.62	32.0		28.8		25.6	
			125	93-30125	4.50	40.0		36.0		32.0	
			150	93-30150	3.75	48.0		43.2		38.4	
			175	93-30175	3.21	56.0		50.4		44.8	
200	93-30200	2.81	64.0	57.6	51.2						

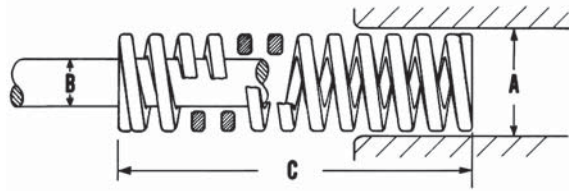
JIS Medium Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE											
						0.3 million		0.5 million		1 million							
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)						
35	17.5	7.7 x 4.3	40	93-3540	19.14	12.8	245 (2402.6)	11.5	220 (2157.4)	10.2	195 (1912.3)						
			45	93-3545	17.01	14.4		13.0		11.5							
			50	93-3550	15.31	16.0		14.4		12.8							
			55	93-3555	13.92	17.6		15.8		14.1							
			60	93-3560	12.76	19.2		17.3		15.4							
			65	93-3565	11.77	20.8		18.7		16.6							
			70	93-3570	10.93	22.4		20.2		17.9							
			75	93-3575	10.20	24.0		21.6		19.2							
			80	93-3580	9.57	25.6		23.0		20.5							
			90	93-3590	8.50	28.8		25.9		23.0							
			100	93-35100	7.65	32.0		28.8		25.6							
			125	93-35125	6.12	40.0		36.0		32.0							
			150	93-35125	5.10	48.0		43.2		38.4							
			175	93-35175	4.37	56.0		50.4		44.8							
200	93-35200	3.82	64.0	57.6	51.2												
40	20	9.4 x 4.8	40	93-4040	25.02	12.8	320 (3138.1)	11.5	288 (2824.3)	10.2	256 (2510.4)						
			50	93-4050	20.00	16.0		14.4		12.8							
			60	93-4060	16.60	19.2		17.3		15.4							
			70	93-4070	14.28	22.4		20.2		17.9							
			80	93-4080	12.50	25.6		23.0		20.5							
			90	93-4090	11.11	28.8		25.9		23.0							
			100	93-40100	10.00	32.0		28.8		25.6							
			125	93-40125	8.00	40.0		36.0		32.0							
			150	93-40150	6.66	48.0		43.2		38.4							
			175	93-40175	5.71	56.0		50.4		44.8							
			200	93-40200	5.00	64.0		57.6		51.2							
			250	93-40250	4.00	80.0		72.0		64.0							
			50	25	11.5 x 6.1	50		93-5050		31.25		16.0	500 (4903.3)	14.4	450 (4413.0)	12.8	400 (3922.4)
						60		93-5060		26.04		19.2		17.3		15.4	
70	93-5070	22.32				22.4	20.2	17.9									
80	93-5080	19.53				25.6	23.0	20.5									
90	93-5090	17.36				28.8	25.9	23.0									
100	93-50100	15.62				32.0	28.8	25.6									
125	93-50125	12.50				40.0	36.0	32.0									
150	93-50150	10.41				48.0	43.2	38.4									
175	93-50175	8.92				56.0	50.4	44.8									
200	93-50200	7.81				64.0	57.6	51.2									
250	93-50250	6.25				80.0	72.0	64.0									
300	93-50300	5.20				96.0	86.4	76.8									
60	30	13.6 x 7.6				60	93-6060	37.40	19.2	723 (7060.8)	17.3	648 (6354.7)		15.4		575 (5638.8)	
						70	93-6070	32.10	22.4		20.2			17.9			
			80	93-6080	28.12	25.6	23.0	20.5									
			90	93-6090	25.00	28.8	25.9	23.0									
			100	93-60100	22.50	32.0	28.8	25.6									
			125	93-60125	18.00	40.0	36.0	32.0									
			150	93-60150	15.00	48.0	43.2	38.4									
			175	93-60175	12.85	56.0	50.4	44.8									
			200	93-60200	11.25	64.0	57.6	51.2									
			250	93-60250	9.00	80.0	72.0	64.0									
			300	93-60300	7.50	96.0	86.4	76.8									

JIS Heavy Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
10	5	2.0 x 1.7	20	94-1020	6.25	4.8	30 (294.2)	4.3	27 (264.8)	3.8	24 (235.4)
			25	94-1025	5.00	6.0		5.4		4.8	
			30	94-1030	4.16	7.2		6.5		5.8	
			35	94-1035	3.57	8.4		7.5		6.7	
			40	94-1040	3.15	9.6		8.6		7.7	
			45	94-1045	2.77	10.8		9.7		8.6	
			50	94-1050	2.50	12.0		10.8		9.6	
			55	94-1055	2.27	13.2		11.8		10.6	
			60	94-1060	2.08	14.4		13.0		11.5	
			65	94-1065	1.92	15.6		14.0		12.5	
			70	94-1070	1.79	16.8		15.1		13.4	
			75	94-1075	1.67	18.0		16.2		14.4	
			80	94-1080	1.56	19.2		17.3		15.4	
12	6	2.5 x 2.0	20	94-1220	8.90	4.8	43 (421.7)	4.3	38 (372.7)	3.8	34 (333.4)
			25	94-1225	7.10	6.0		5.4		4.8	
			30	94-1230	5.97	7.2		6.5		5.8	
			35	94-1235	5.11	8.4		7.5		6.7	
			40	94-1240	4.47	9.6		8.6		7.7	
			45	94-1245	3.98	10.8		9.7		8.6	
			50	94-1250	3.58	12.0		10.8		9.6	
			55	94-1255	3.25	13.2		11.8		10.6	
			60	94-1260	2.98	14.4		13.0		11.5	
			65	94-1265	2.74	15.6		14.0		12.5	
			70	94-1270	2.54	16.8		15.1		13.4	
			75	94-1275	2.37	18.0		16.2		14.4	
			80	94-1280	2.21	19.2		17.3		15.4	
14	7	3.0 x 2.3	25	94-1425	9.83	6.0	59 (578.6)	5.4	53 (519.8)	4.8	47 (460.9)
			30	94-1430	8.19	7.2		6.5		5.8	
			35	94-1435	7.02	8.4		7.5		6.7	
			40	94-1440	6.14	9.6		8.6		7.7	
			45	94-1445	5.46	10.8		9.7		8.6	
			50	94-1450	4.91	12.0		10.8		9.6	
			55	94-1455	4.46	13.2		11.8		10.6	
			60	94-1460	4.09	14.4		13.0		11.5	
			65	94-1465	3.78	15.6		14.0		12.5	
			70	94-1470	3.51	16.8		15.1		13.4	
			75	94-1475	3.27	18.0		16.2		14.4	
			80	94-1480	3.07	19.2		17.3		15.4	
			90	94-1490	2.72	21.6		19.4		17.3	
16	8	3.5 x 2.5	25	94-1625	18.83	6.0	77 (755)	5.4	69 (676.7)	4.8	62 (608.0)
			30	94-1630	10.69	7.2		6.5		5.8	
			35	94-1635	9.16	8.4		7.5		6.7	
			40	94-1640	8.02	9.6		8.6		7.7	
			45	94-1645	7.12	10.8		9.7		8.6	
			50	94-1650	6.41	12.0		10.8		9.6	
			55	94-1655	5.83	13.2		11.8		10.6	
			60	94-1660	5.34	14.4		13.0		11.5	
			65	94-1665	4.93	15.6		14.0		12.5	
			70	94-1670	4.58	16.8		15.1		13.4	
			75	94-1675	4.28	18.0		16.2		14.4	
			80	94-1680	4.01	19.2		17.3		15.4	
			90	94-1690	3.57	21.6		19.4		17.3	
100	94-16100	3.21	24.0	21.6	19.2						

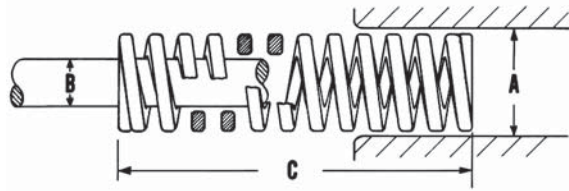
JIS Heavy Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
18	9	4.0 x 2.7	25	94-1825	16.16	6.0	97 (951.3)	5.4	87 (853.2)	4.8	78 (764.9)
			30	94-1830	13.47	7.2		6.5		5.8	
			35	94-1835	11.54	8.4		7.5		6.7	
			40	94-1840	10.10	9.6		8.6		7.7	
			45	94-1845	8.98	10.8		9.7		8.6	
			50	94-1850	8.08	12.0		10.8		9.6	
			55	94-1855	7.34	13.2		11.8		10.6	
			60	94-1860	6.73	14.4		13.0		11.5	
			65	94-1865	6.21	15.6		14.0		12.5	
			70	94-1870	5.77	16.8		15.1		13.4	
			75	94-1875	5.39	18.0		16.2		14.4	
			80	94-1880	5.05	19.2		17.3		15.4	
			90	94-1890	4.50	21.6		19.4		17.3	
100	94-18100	4.04	24.0	21.6	19.2						
20	10	4.5 x 3.1	25	94-2025	20.00	6.0	120 (1176.8)	5.4	108 (1059.1)	4.8	96 (941.4)
			30	94-2030	16.66	7.2		6.5		5.8	
			35	94-2035	14.28	8.4		7.5		6.7	
			40	94-2040	12.50	9.6		8.6		7.7	
			45	94-2045	11.11	10.8		9.7		8.6	
			50	94-2050	10.00	12.0		10.8		9.6	
			55	94-2055	9.09	13.2		11.8		10.6	
			60	94-2060	8.33	14.4		13.0		11.5	
			65	94-2065	7.69	15.6		14.0		12.5	
			70	94-2070	7.14	16.8		15.1		13.4	
			75	94-2075	6.67	18.0		16.2		14.4	
			80	94-2080	6.25	19.2		17.3		15.4	
			90	94-2090	5.55	21.6		19.4		17.3	
100	94-20100	5.00	24.0	21.6	19.2						
125	94-20125	4.00	30.0	27.0	24.0						
150	94-20150	3.33	36.0	32.4	28.8						
22	11	5.1 x 3.4	25	94-2225	24.16	6.0	145 (1422.0)	5.4	130 (1274.9)	4.8	116 (1137.6)
			30	94-2230	20.13	7.2		6.5		5.8	
			35	94-2235	17.30	8.4		7.5		6.7	
			40	94-2240	15.10	9.6		8.6		7.7	
			45	94-2245	13.40	10.8		9.7		8.6	
			50	94-2250	12.08	12.0		10.8		9.6	
			55	94-2255	10.94	13.2		11.8		10.6	
			60	94-2260	10.06	14.4		13.0		11.5	
			65	94-2265	9.28	15.6		14.0		12.5	
			70	94-2270	8.63	16.8		15.1		13.4	
			75	94-2275	8.04	18.0		16.2		14.4	
			80	94-2280	7.55	19.2		17.3		15.4	
			90	94-2290	6.71	21.6		19.4		17.3	
100	94-22100	6.04	24.0	21.6	19.2						
125	94-22125	4.83	30.0	27.0	24.0						
150	94-22150	4.02	36.0	32.4	28.8						

JIS Heavy Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
25	12.5	5.8 x 3.9	25	94-2525	31.20	6.0	187 (1833.8)	5.4	169 (1657.0)	4.8	150 (1471.0)
			30	94-2530	25.97	7.2		6.5		5.8	
			35	94-2535	22.38	8.4		7.5		6.7	
			40	94-2540	19.47	9.6		8.6		7.7	
			45	94-2545	17.40	10.8		9.7		8.6	
			50	94-2550	15.58	12.0		10.8		9.6	
			55	94-2555	14.20	13.2		11.9		10.6	
			60	94-2560	12.98	14.4		13.0		11.5	
			65	94-2565	12.00	15.6		14.0		12.5	
			70	94-2570	11.13	16.8		15.1		13.4	
			75	94-2575	10.40	18.0		16.2		14.4	
			80	94-2580	9.73	19.2		17.3		15.4	
			90	94-2590	8.65	21.6		19.4		17.3	
			100	94-25100	7.79	24.0		21.6		19.2	
			125	94-25125	6.23	30.0		27.0		24.0	
			150	94-25150	5.20	36.0		32.4		28.8	
			175	94-25175	4.46	42.0		37.8		33.6	
27	13.5	6.3 x 4.2	25	94-2725	36.40	6.0	219 (2147.7)	5.4	197 (1931.9)	4.8	175 (1716.2)
			30	94-2730	30.41	7.2		6.5		5.8	
			35	94-2735	26.20	8.4		7.5		6.7	
			40	94-2740	22.81	9.6		8.6		7.7	
			45	94-2745	20.30	10.8		9.7		8.6	
			50	94-2750	18.25	12.0		10.8		9.6	
			55	94-2755	16.50	13.2		11.9		10.6	
			60	94-2760	15.20	14.4		13.0		11.5	
			65	94-2765	14.00	15.6		14.0		12.5	
			70	94-2770	13.03	16.8		15.1		13.4	
			75	94-2775	12.10	18.0		16.2		14.4	
			80	94-2780	11.40	19.2		17.3		15.4	
			90	94-2790	10.13	21.6		19.4		17.3	
			100	94-27100	9.12	24.0		21.6		19.2	
			125	94-27125	7.30	30.0		27.0		24.0	
			150	94-27150	6.08	36.0		32.4		28.8	
			175	94-27175	5.21	42.0		37.8		33.6	
30	15	7.1 x 4.4	25	94-3025	45.00	6.0	270 (2647.8)	5.4	243 (2382.4)	4.8	216 (2118.2)
			30	94-3030	37.50	7.2		6.5		5.8	
			35	94-3035	32.26	8.4		7.5		6.7	
			40	94-3040	28.12	9.6		8.6		7.7	
			45	94-3045	25.00	10.8		9.7		8.6	
			50	94-3050	22.50	12.0		10.8		9.6	
			55	94-3055	20.40	13.2		11.9		10.6	
			60	94-3060	18.75	14.4		13.0		11.5	
			65	94-3065	17.30	15.6		14.0		12.5	
			70	94-3070	16.07	16.8		15.1		13.4	
			75	94-3075	15.00	18.0		16.2		14.4	
			80	94-3080	14.06	19.2		17.3		15.4	
			90	94-3090	12.50	21.6		19.4		17.3	
			100	94-30100	11.25	24.0		21.6		19.2	
			125	94-30125	9.00	30.0		27.0		24.0	
			150	94-30150	7.50	36.0		32.4		28.8	
			175	94-30175	6.42	42.0		37.8		33.6	
200	94-30200	5.62	48.0	43.2	38.4						

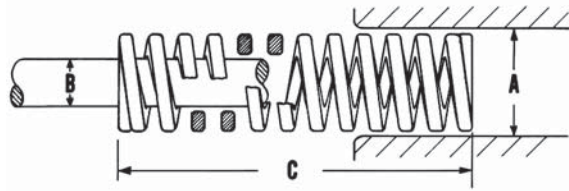
JIS Heavy Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE											
						0.3 million		0.5 million		1 million							
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)						
35	17.5	8.3 x 5.2	40	94-3540	38.22	9.6	367 (3599.0)	8.6	330 (3236.2)	7.7	293 (2873.4)						
			45	94-3545	33.98	10.8		9.7		8.6							
			50	94-3550	30.58	12.0		10.8		9.6							
			55	94-3555	27.80	13.2		11.9		10.5							
			60	94-3560	25.48	14.4		13.0		11.5							
			65	94-3565	23.53	15.6		14.0		12.5							
			70	94-3570	21.84	16.8		15.1		13.4							
			75	94-3575	20.39	18.0		16.2		14.4							
			80	94-3580	19.11	19.2		17.3		15.4							
			90	94-3590	16.99	21.6		19.4		17.3							
			100	94-35100	15.29	24.0		21.6		19.2							
			125	94-35125	12.23	30.0		27.0		24.0							
			150	94-35150	10.19	36.0		32.4		28.8							
			175	94-35175	8.73	42.0		37.8		33.6							
			200	94-35200	7.64	48.0		43.2		38.4							
40	20	9.3 x 6.1	40	94-4040	50.00	9.6	480 (4707.2)	8.6	432 (4236.5)	7.7	384 (3765.8)						
			50	94-4050	40.00	12.0		10.8		9.6							
			60	94-4060	33.33	14.4		13.0		11.5							
			70	94-4070	28.57	16.8		15.1		13.4							
			80	94-4080	25.00	19.2		17.3		15.4							
			90	94-4090	22.22	21.6		19.4		17.3							
			100	94-40100	20.00	24.0		21.6		19.2							
			125	94-40125	16.00	30.0		27.0		24.0							
			150	94-40150	13.33	36.0		32.4		28.8							
			175	94-40175	11.42	42.0		37.8		33.6							
			200	94-40200	10.00	48.0		43.2		38.4							
			250	94-40250	8.00	60.0		54.0		48.0							
			50	25	11.8 x 7.8	50		94-5050		62.50		12.0	750 (7355.0)	10.8	675 (6619.5)	9.6	600 (5884.0)
						60		94-5060		52.08		14.4		13.0		11.5	
						70		94-5070		44.64		16.8		15.1		13.4	
80	94-5080	39.06				19.2	17.3	15.4									
90	94-5090	34.72				21.6	19.4	17.3									
100	94-50100	32.25				24.0	21.6	19.2									
125	94-50125	25.00				30.0	27.0	24.0									
150	94-50150	20.83				36.0	32.4	28.8									
175	94-50175	17.85				42.0	37.8	33.6									
200	94-50200	15.62				48.0	43.2	38.4									
250	94-50250	12.50				60.0	54.0	48.0									
300	94-50300	10.41				72.0	64.8	57.6									
60	30	14.5 x 9.3				60	94-6060	75.00	14.4	1080 (10591.2)	13.0	973 (9541.9)		11.5		864 (8473.0)	
						70	94-6070	64.28	16.8		15.1			13.4			
						80	94-6080	56.25	19.2		17.3			15.4			
			90	94-6090	50.00	21.6	19.4	17.3									
			100	94-60100	45.00	24.0	21.6	19.2									
			125	94-60125	36.00	30.0	27.0	24.0									
			150	94-60150	30.00	36.0	32.4	28.8									
			175	94-60175	25.71	42.0	37.8	33.6									
			200	94-60200	22.50	48.0	43.2	38.4									
			250	94-60250	18.00	60.0	54.0	48.0									
300	94-60300	15.00	72.0	64.8	57.6												

JIS Extra-Heavy Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
10	5	2.1 x 2.1	20	95-1020	11.25	4.0	45 (441.2)	3.6	40.5 (397.1)	3.2	36 (353.0)
			25	95-1025	9.00	5.0		4.5		4.0	
			30	95-1030	7.50	6.0		5.4		4.8	
			35	95-1035	6.43	7.0		6.3		5.6	
			40	95-1040	5.63	8.0		7.2		6.4	
			45	95-1045	5.00	9.0		8.1		7.2	
			50	95-1050	4.50	10.0		9.0		8.0	
			55	95-1055	4.09	11.0		9.9		8.8	
			60	95-1060	3.75	12.0		10.8		9.6	
			65	95-1065	3.47	13.0		11.7		10.4	
			70	95-1070	3.21	14.0		12.6		11.2	
			75	95-1075	3.00	15.0		13.5		12.0	
			80	95-1080	2.82	16.0		14.4		12.8	
12	6	2.7 x 2.5	20	95-1220	14.50	4.0	58 (568.6)	3.6	52 (509.8)	3.2	46.4 (454.9)
			25	95-1225	11.60	5.0		4.5		4.0	
			30	95-1230	9.67	6.0		5.4		4.8	
			35	95-1235	8.29	7.0		6.3		5.6	
			40	95-1240	7.25	8.0		7.2		6.4	
			45	95-1245	6.44	9.0		8.1		7.2	
			50	95-1250	5.80	10.0		9.0		8.0	
			55	95-1255	5.27	11.0		9.9		8.8	
			60	95-1260	4.83	12.0		10.8		9.6	
			65	95-1265	4.44	13.0		11.7		10.4	
			70	95-1270	4.13	14.0		12.6		11.2	
			75	95-1275	3.85	15.0		13.5		12.0	
			80	95-1280	3.61	16.0		14.4		12.8	
14	7	3.3 x 2.8	25	95-1425	15.00	5.0	75 (735.3)	4.5	67.5 (661.8)	4.0	60 (588.3)
			30	95-1430	12.50	6.0		5.4		4.8	
			35	95-1435	10.72	7.0		6.3		5.6	
			40	95-1440	9.38	8.0		7.2		6.4	
			45	95-1445	8.34	9.0		8.1		7.2	
			50	95-1450	7.50	10.0		9.0		8.0	
			55	95-1455	6.82	11.0		9.9		8.8	
			60	95-1460	6.25	12.0		10.8		9.6	
			65	95-1465	5.77	13.0		11.7		10.4	
			70	95-1470	5.36	14.0		12.6		11.2	
			75	95-1475	5.00	15.0		13.5		12.0	
			80	95-1480	4.69	16.0		14.4		12.8	
			90	95-1490	4.17	18.0		16.2		14.4	
16	8	3.6 x 3.0	25	95-1625	20.00	5.0	100 (981.0)	4.5	90 (883.0)	4.0	80 (785.0)
			30	95-1630	16.67	6.0		5.4		4.8	
			35	95-1635	14.29	7.0		6.3		5.6	
			40	95-1640	12.50	8.0		7.2		6.4	
			45	95-1645	11.11	9.0		8.1		7.2	
			50	95-1650	10.00	10.0		9.0		8.0	
			55	95-1655	9.09	11.0		9.9		8.8	
			60	95-1660	8.34	12.0		10.8		9.6	
			65	95-1665	7.69	13.0		11.7		10.4	
			70	95-1670	7.14	14.0		12.6		11.2	
			75	95-1675	6.67	15.0		13.5		12.0	
			80	95-1680	6.25	16.0		14.4		12.8	
			90	95-1690	5.56	18.0		16.2		14.4	
100	95-16100	5.00	20.0	18.0	16.0						

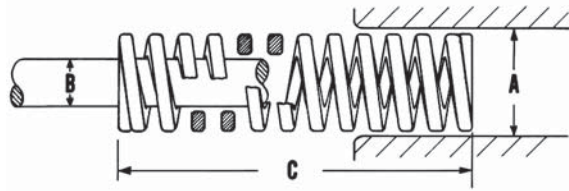
JIS Extra-Heavy Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
18	9	4.1 x 3.5	25	95-1825	25.00	5.0	125 (1226.0)	4.5	113 (1108.0)	4.0	100 (981.0)
			30	95-1830	20.84	6.0		5.4		4.8	
			35	95-1835	17.86	7.0		6.3		5.6	
			40	95-1840	15.63	8.0		7.2		6.4	
			45	95-1845	13.89	9.0		8.1		7.2	
			50	95-1850	12.50	10.0		9.0		8.0	
			55	95-1855	11.37	11.0		9.9		8.8	
			60	95-1860	10.42	12.0		10.8		9.6	
			65	95-1865	9.62	13.0		11.7		10.4	
			70	95-1870	8.93	14.0		12.6		11.2	
			75	95-1875	8.34	15.0		13.5		12.0	
			80	95-1880	7.82	16.0		14.4		12.8	
			90	95-1890	6.95	18.0		16.2		14.4	
100	95-18100	6.26	20.0	18.0	16.0						
20	10	4.7 x 3.7	25	95-2025	32.00	5.0	160 (1569.1)	4.5	144 (1412.2)	4.0	128 (1255.3)
			30	95-2030	26.67	6.0		5.4		4.8	
			35	95-2035	22.86	7.0		6.3		5.6	
			40	95-2040	20.00	8.0		7.2		6.4	
			45	95-2045	17.78	9.0		8.1		7.2	
			50	95-2050	16.00	10.0		9.0		8.0	
			55	95-2055	14.55	11.0		9.9		8.8	
			60	95-2060	13.33	12.0		10.8		9.6	
			65	95-2065	12.31	13.0		11.7		10.4	
			70	95-2070	11.43	14.0		12.6		11.2	
			75	95-2075	10.67	15.0		13.5		12.0	
			80	95-2080	10.00	16.0		14.4		12.8	
			90	95-2090	8.89	18.0		16.2		14.4	
			100	95-20100	8.00	20.0		18.0		16.0	
			125	95-20125	6.40	25.0		22.5		20.0	
150	95-20150	5.33	30.0	27.0	24.0						
22	11	5.2 x 4.2	25	95-2225	39.00	5.0	195 (1912.0)	4.5	176 (1726.0)	4.0	156 (1530.0)
			30	95-2230	32.50	6.0		5.4		4.8	
			35	95-2235	27.86	7.0		6.3		5.6	
			40	95-2240	24.38	8.0		7.2		6.4	
			45	95-2245	21.67	9.0		8.1		7.2	
			50	95-2250	19.50	10.0		9.0		8.0	
			55	95-2255	17.73	11.0		9.9		8.8	
			60	95-2260	16.25	12.0		10.8		9.6	
			65	95-2265	15.00	13.0		11.7		10.4	
			70	95-2270	13.93	14.0		12.6		11.2	
			75	95-2275	13.00	15.0		13.5		12.0	
			80	95-2280	12.19	16.0		14.4		12.8	
			90	95-2290	10.83	18.0		16.2		14.4	
			100	95-22100	9.75	20.0		18.0		16.0	
			125	95-22125	7.80	25.0		22.5		20.0	
150	95-22150	6.50	30.0	27.0	24.0						

JIS Extra-Heavy Load Springs

Rectangular Wire Construction



* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE					
						0.3 million		0.5 million		1 million	
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)
25	12.5	5.8 x 4.6	25	95-2525	49.00	5.0	245 (2402.6)	4.5	221 (2167.3)	4.0	196 (1922.1)
			30	95-2530	40.80	6.0		5.4		4.8	
			35	95-2535	35.00	7.0		6.3		5.6	
			40	95-2540	30.60	8.0		7.2		6.4	
			45	95-2545	27.20	9.0		8.1		7.2	
			50	95-2550	24.50	10.0		9.0		8.0	
			55	95-2555	22.30	11.0		9.9		8.8	
			60	95-2560	20.40	12.0		10.8		9.6	
			65	95-2565	18.80	13.0		11.7		10.4	
			70	95-2570	17.50	14.0		12.6		11.2	
			75	95-2575	16.30	15.0		13.5		12.0	
			80	95-2580	15.30	16.0		14.4		12.8	
			90	95-2590	13.60	18.0		16.2		14.4	
			100	95-25100	12.30	20.0		18.0		16.0	
			125	95-25125	9.80	25.0		22.5		20.0	
150	95-25150	8.17	30.0	27.0	24.0						
175	95-25175	7.00	35.0	31.5	28.0						
27	13.5	6.4 x 5.0	25	95-2725	58.00	5.0	290 (2844.0)	4.5	261 (2560.0)	4.0	232 (2275.0)
			30	95-2530	48.33	6.0		5.4		4.8	
			35	95-2735	41.43	7.0		6.3		5.6	
			40	95-2740	36.25	8.0		7.2		6.4	
			45	95-2745	32.22	9.0		8.1		7.2	
			50	95-2750	29.00	10.0		9.0		8.0	
			55	95-2755	26.36	11.0		9.9		8.8	
			60	95-2760	24.17	12.0		10.8		9.6	
			65	95-2765	22.31	13.0		11.7		10.4	
			70	95-2770	20.71	14.0		12.6		11.2	
			75	95-2775	19.33	15.0		13.5		12.0	
			80	95-2780	18.13	16.0		14.4		12.8	
			90	95-2790	16.11	18.0		16.2		14.4	
			100	95-27100	14.50	20.0		18.0		16.0	
			125	95-27125	11.60	25.0		22.5		20.0	
150	95-27150	9.67	30.0	27.0	24.0						
175	95-27175	8.28	35.0	31.5	28.0						
30	15	7.1 x 5.3	25	95-3025	72.00	5.0	360 (3530.4)	4.5	324 (3177.4)	4.0	288 (2824.3)
			30	95-3030	60.00	6.0		5.4		4.8	
			35	95-3035	51.43	7.0		6.3		5.6	
			40	95-3040	45.00	8.0		7.2		6.4	
			45	95-3045	40.00	9.0		8.1		7.2	
			50	95-3050	36.00	10.0		9.0		8.0	
			55	95-3055	32.72	11.0		9.9		8.8	
			60	95-3060	30.00	12.0		10.8		9.6	
			65	95-3065	27.69	13.0		11.7		10.4	
			70	95-3070	25.71	14.0		12.6		11.2	
			75	95-3075	24.00	15.0		13.5		12.0	
			80	95-3080	22.50	16.0		14.4		12.8	
			90	95-3090	20.00	18.0		16.2		14.4	
			100	95-30100	18.00	20.0		18.0		16.0	
			125	95-30125	14.40	25.0		22.5		20.0	
150	95-30150	12.00	30.0	27.0	24.0						
175	95-30175	10.28	35.0	31.5	28.0						
200	95-30200	9.00	40.0	36.0	32.0						

JIS Extra-Heavy Load Springs

* Note: 1 daN = 1.0197 Kg (Force)

Outer Diam. (mm) A	Inner Diam. (mm) B	Wire Size (mm)	Free Length (mm) C	Catalog Number	Spring *Rate kgf/mm	LOAD-DEFLECTION TABLE											
						0.3 million		0.5 million		1 million							
						Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)	Deflection mm	Load kgf (N)						
35	17.5	8.3 x 6.6	40	95-3540	61.25	8.0	490 (4805.3)	7.2	441 (4324.7)	6.4	392 (3844.2)						
			45	95-3545	54.44	9.0		8.1		7.2							
			50	95-3550	49.00	10.0		9.0		8.0							
			55	95-3555	44.54	11.0		9.9		8.8							
			60	95-3560	40.83	12.0		10.8		9.6							
			65	95-3565	37.69	13.0		11.7		10.4							
			70	95-3570	35.00	14.0		12.6		11.2							
			75	95-3575	32.67	15.0		13.5		12.0							
			80	95-3580	30.62	16.0		14.4		12.8							
			90	95-3590	27.22	18.0		16.2		14.4							
			100	95-35100	24.50	20.0		18.0		16.0							
			125	95-35125	19.60	25.0		22.5		20.0							
			150	95-35150	16.33	30.0		27.0		24.0							
			175	95-35175	14.00	35.0		31.5		28.0							
			200	95-35200	12.25	40.0		36.0		32.0							
40	20	9.8 x 7.5	40	95-4040	80.00	8.0	640 (6276.3)	7.2	576 (5648.6)	6.4	512 (5021.0)						
			50	95-4050	64.00	10.0		9.0		8.0							
			60	95-4060	53.33	12.0		10.8		9.6							
			70	95-4070	45.71	14.0		12.6		11.2							
			80	95-4080	40.00	16.0		14.4		12.8							
			90	95-4090	35.55	18.0		16.2		14.4							
			100	95-40100	32.00	20.0		18.0		16.0							
			125	95-40125	25.60	25.0		22.5		20.0							
			150	95-40150	21.33	30.0		27.0		24.0							
			175	95-40175	18.28	35.0		31.5		28.0							
			200	95-40200	16.00	40.0		36.0		32.0							
			250	95-40250	12.80	50.0		45.0		40.0							
			50	25	12.0 x 8.8	50		95-5050		100.00		10.0	1000 (9806.7)	9.0	900 (8826.0)	8.0	800 (7845.3)
						60		95-5060		83.33		12.0		10.8		9.6	
						70		95-5070		71.42		14.0		12.6		11.2	
80	95-5080	62.50				16.0	14.4	12.8									
90	95-5090	55.55				18.0	16.2	14.4									
100	95-50100	50.00				20.0	18.0	16.0									
125	95-50125	40.00				25.0	22.5	20.0									
150	95-50150	33.33				30.0	27.0	24.0									
175	95-50175	28.57				35.0	31.5	28.0									
200	95-50200	25.00				40.0	36.0	32.0									
250	95-50250	20.00				50.0	45.0	40.0									
300	95-50300	16.66				60.0	54.0	48.0									
60	30	14.8 X 10.5				60	95-6060	120.00	12.0	1440 (14121.6)	10.8	1296 (12709.4)		9.6		1152 (11297.3)	
						70	95-6070	102.86	14.0		12.6			11.2			
						80	95-6080	90.00	16.0		14.4			12.8			
			90	95-6090	80.00	18.0	16.2	14.4									
			100	95-60100	72.00	20.0	18.0	16.0									
			125	95-60125	57.60	25.0	22.5	20.0									
			150	95-60150	48.00	30.0	27.0	24.0									
			175	95-60175	41.14	35.0	31.5	28.0									
			200	95-60200	36.00	40.0	36.0	32.0									
			250	95-60250	28.80	50.0	45.0	40.0									
300	95-60300	24.00	60.0	54.0	48.0												