

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

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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	
22	11	5.0 x 2.8	125	93-20125	2.00	40.0		36.0		32.0	
			150	93-20150	1.67	48.0		43.2		38.4	
			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	

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						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	