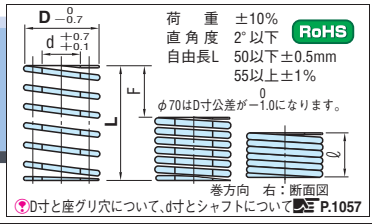


COIL SPRINGS -SWL-

コイルスプリング

-SWL-



コイルスプリング

D	d	L	ばね定数 N/mm(kgf/mm)	巻層長 φ min	F=L×32% Fmm 荷重 (N/kgf)	F=L×36% Fmm 荷重 (N/kgf)	F=L×40% Fmm 荷重 (N/kgf)	型式 Type D-L	1~19本	
6	3	15	13.1(1.33)	8.6	4.8	5.4	6.0	SWL6-15	85	
		20	9.8(1.00)	11.5	6.4	7.2	8.0	20	90	
		25	7.8(0.80)	14.4	8.0	63	9.0	71	10.0	78
		30	6.5(0.67)	17.2	9.6	(6.4)	10.8	(7.2)	12.0	(8.0)
		35	5.6(0.57)	20.1	11.2		12.6		14.0	
40	4.9(0.50)	23.0	12.8		14.4		16.0			
8	4	10	24.5(2.50)	5.4	3.2	3.6	4.0	SWL8-10	80	
		15	16.3(1.67)	8.1	4.8	5.4	6.0	15	75	
		20	12.3(1.25)	10.8	6.4	7.2	8.0	20	85	
		25	9.8(1.00)	13.5	8.0	9.0	10.0	25	85	
		30	8.2(0.83)	16.2	9.6	10.8	12.0	30	90	
		35	7.0(0.71)	18.9	11.2	12.6	14.0	35	95	
		40	6.1(0.63)	21.6	12.8	14.4	16.0	40	105	
		45	5.4(0.56)	24.3	14.4	16.2	18.0	45	115	
		50	4.9(0.50)	27.0	16.0	18.0	20.0	50	125	
		55	4.5(0.45)	29.7	17.6	19.8	22.0	55	135	
10	5	10	34.3(3.50)	5.4	3.2	3.6	4.0	SWL10-10	85	
		15	22.9(2.33)	8.1	4.8	5.4	6.0	15	80	
		20	17.2(1.75)	10.8	6.4	7.2	8.0	20	85	
		25	13.7(1.40)	13.5	8.0	9.0	10.0	25	85	
		30	11.4(1.17)	16.2	9.6	10.8	12.0	30	85	
		35	9.8(1.00)	18.9	11.2	12.6	14.0	35	85	
		40	8.6(0.88)	21.6	12.8	14.4	16.0	40	90	
		45	7.6(0.78)	24.3	14.4	16.2	18.0	45	95	
		50	6.9(0.70)	27.0	16.0	18.0	20.0	50	105	
		55	6.2(0.64)	29.7	17.6	19.8	22.0	55	115	
12	6	10	34.3(3.50)	8.1	4.8	5.4	6.0	SWL12-15	90	
		20	25.7(2.63)	10.8	6.4	7.2	8.0	20	90	
		25	20.6(2.10)	13.5	8.0	9.0	10.0	25	95	
		30	17.2(1.75)	16.2	9.6	10.8	12.0	30	105	
		35	14.7(1.50)	18.9	11.2	12.6	14.0	35	105	
		40	12.9(1.31)	21.6	12.8	14.4	16.0	40	115	
		45	11.4(1.17)	24.3	14.4	16.2	18.0	45	125	
		50	10.3(1.05)	27.0	16.0	18.0	20.0	50	135	
		55	9.4(0.95)	29.7	17.6	19.8	22.0	55	145	
		60	8.6(0.88)	32.4	19.2	21.6	24.0	60	155	
14	7	10	34.3(3.50)	10.8	6.4	7.2	8.0	SWL14-20	125	
		25	27.5(2.80)	13.5	8.0	9.0	10.0	25	125	
		30	22.9(2.33)	16.2	9.6	10.8	12.0	30	135	
		35	19.6(2.00)	18.9	11.2	12.6	14.0	35	145	
		40	17.2(1.75)	21.6	12.8	14.4	16.0	40	155	
		45	15.3(1.56)	24.3	14.4	16.2	18.0	45	160	
		50	13.7(1.40)	27.0	16.0	18.0	20.0	50	170	
		55	12.5(1.27)	29.7	17.6	19.8	22.0	55	180	
		60	11.4(1.17)	32.4	19.2	21.6	24.0	60	185	
		65	10.6(1.08)	35.1	20.8	23.4	26.0	65	190	
16	8	20	42.9(4.38)	10.8	6.4	7.2	8.0	SWL16-20	135	
		25	34.3(3.50)	13.5	8.0	9.0	10.0	25	135	
		30	28.6(2.92)	16.2	9.6	10.8	12.0	30	145	
		35	24.5(2.50)	18.9	11.2	12.6	14.0	35	155	
		40	21.5(2.19)	21.6	12.8	14.4	16.0	40	160	
		45	19.1(1.94)	24.3	14.4	16.2	18.0	45	170	
		50	17.2(1.75)	27.0	16.0	18.0	20.0	50	180	
		55	15.6(1.59)	29.7	17.6	19.8	22.0	55	190	
		60	14.3(1.46)	32.4	19.2	(28)	21.6	(32)	24.0	(35)
		65	13.2(1.35)	35.1	20.8	23.4	26.0	65	210	
18	9	20	52.7(5.38)	10.8	6.4	7.2	8.0	SWL18-20	135	
		25	42.2(4.30)	13.5	8.0	9.0	10.0	25	135	
		30	35.1(3.58)	16.2	9.6	10.8	12.0	30	145	
		35	30(3.07)	18.9	11.2	12.6	14.0	35	155	
		40	26.4(2.69)	21.6	12.8	14.4	16.0	40	160	
		45	23.4(2.39)	24.3	14.4	16.2	18.0	45	170	
		50	21.1(2.15)	27.0	16.0	18.0	20.0	50	185	
		55	19.2(1.95)	29.7	17.6	19.8	22.0	55	190	
		60	17.6(1.79)	32.4	19.2	(34)	21.6	(39)	24.0	(43)
		65	16.2(1.65)	35.1	20.8	23.4	26.0	65	210	
20	10	20	66.2(6.75)	10.8	6.4	7.2	8.0	SWL20-20	145	
		25	53.0(5.40)	13.5	8.0	9.0	10.0	25	145	
		30	44.1(4.50)	16.2	9.6	10.8	12.0	30	155	
		35	37.8(3.86)	18.9	11.2	12.6	14.0	35	160	
		40	33.1(3.38)	21.6	12.8	14.4	16.0	40	170	
		45	29.4(3.00)	24.3	14.4	16.2	18.0	45	185	
		50	26.5(2.70)	27.0	16.0	18.0	20.0	50	190	
		55	24.1(2.45)	29.7	17.6	19.8	22.0	55	200	
		60	22.1(2.25)	32.4	19.2	(42)	21.6	(43)	24.0	(43)
		65	20.4(2.08)	35.1	20.8	23.4	26.0	65	220	
22	11	25	65.7(6.70)	13.5	8.0	9.0	10.0	SWL22-25	145	
		30	54.8(5.58)	16.2	9.6	10.8	12.0	30	155	
		35	46.9(4.79)	18.9	11.2	12.6	14.0	35	160	
		40	41.1(4.19)	21.6	12.8	14.4	16.0	40	180	
		45	36.5(3.72)	24.3	14.4	16.2	18.0	45	185	
		50	32.9(3.35)	27.0	16.0	18.0	20.0	50	190	
		55	29.9(3.05)	29.7	17.6	19.8	22.0	55	200	
		60	27.4(2.79)	32.4	19.2	(52)	21.6	(59)	24.0	(67)
		65	25.3(2.58)	35.1	20.8	(54)	23.4	(60)	26.0	(67)
		70	23.5(2.39)	37.8	22.4	25.2	28.0	70	230	
25	12.5	25	82.4(8.40)	13.5	8.0	9.0	10.0	SWL25-25	155	
		30	68.6(7.00)	16.2	9.6	10.8	12.0	30	160	
		35	58.8(6.00)	18.9	11.2	12.6	14.0	35	170	
		40	51.5(5.25)	21.6	12.8	14.4	16.0	40	180	
		45	45.8(4.67)	24.3	14.4	16.2	18.0	45	190	
		50	41.2(4.20)	27.0	16.0	18.0	20.0	50	190	
		55	37.4(3.82)	29.7	17.6	19.8	22.0	55	210	
		60	34.3(3.50)	32.4	19.2	21.6	24.0	60	220	
		65	31.7(3.23)	35.1	20.8	659	23.4	741	26.0	824
		70	29.4(3.00)	37.8	22.4	(67)	25.2	(76)	28.0	(84)
27	13.5	25	98.1(10.0)	13.5	8.0	9.0	10.0	SWL27-25	155	
		30	81.7(8.33)	16.2	9.6	10.8	12.0	30	160	
		35	70.0(7.14)	18.9	11.2	12.6	14.0	35	180	
		40	61.3(6.25)	21.6	12.8	14.4	16.0	40	185	
		45	54.5(5.56)	24.3	14.4	16.2	18.0	45	190	
		50	49.0(5.00)	27.0	16.0	18.0	20.0	50	210	
		55	44.6(4.55)	29.7	17.6	19.8	22.0	55	220	
		60	40.9(4.17)	32.4	19.2	21.6	24.0	60	230	
		65	37.7(3.85)	35.1	20.8	785	23.4	883	26.0	981
		70	35.0(3.57)	37.8	22.4	(80)	25.2	(90)	28.0	(100)
30	15	25	119(12.1)	13.5	8.0	9.0	10.0	SWL30-25	155	
		30	98.8(10.1)	16.2	9.6	10.8	12.0	30	170	
		35	84.7(8.64)	18.9	11.2	12.6	14.0	35	185	
		40	74.1(7.56)	21.6	12.8	14.4	16.0	40	190	
		45	65.9(6.72)	24.3	14.4	16.2	18.0	45	210	
		50	59.3(6.05)	27.0	16.0	18.0	20.0	50	220	
		55	53.9(5.50)	29.7	17.6	19.8	22.0	55	240	
		60	49.4(5.04)	32.4	19.2	21.6	24.0	60	250	
		65	45.6(4.65)	35.1	20.8	949	23.4	1067	26.0	1186
		70	42.4(4.32)	37.8	22.4	(97)	25.2	(109)	28.0	(121)
35	17.5	25	140(14.3)	13.5	8.0	9.0	10.0	SWL35-40	230	
		30	119(12.1)	16.2	9.6	10.8	12.0	30	230	
		35	101(10.3)	18.9	11.2	12.6	14.0	35	250	
		40	89.8(9.16)	21.6	12.8	14.4	16.0	40	270	
		45	80.9(8.24)	24.3	14.4	16.2	18.0	45	285	
		50	73.5(7.49)	27.0	16.0	18.0	20.0	50	310	
		55	67.4(6.87)	29.7	17.6	19.8	22.0	55	330	
		60	62.2(6.34)	32.4	19.2	21.6	24.0	60	350	
		65	57.8(5.89)	35.1	20.8	23.4	26.0	65	370	
		70	53.9(5.50)	37.8	22.4	1294	25.2	1455	28.0	(617)
40	20	25	169(17.3)	13.5	8.0	9.0	10.0	SWL40-40	310	
		30	140(14.3)	16.2	9.6	10.8	12.0	30	310	
		35	123(12.5)	18.9	11.2	12.6	14.0	35	320	
		40	108(11.0)	21.6	12.8	14.4	16.0	40	330	
		45	98.1(10.0)	24.3	14.4	16.2	18.0	45	340	
		50	89.8(9.16)	27.0	16.0	18.0	20.0	50	350	
		55	82.4(8.40)	29.7	17.6	19.8	22.0	5		