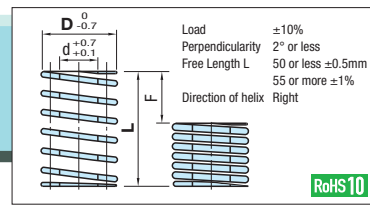


# Coil Spring

## Light Load SWL



D	d	L	Spring Constant N/mm(kgf/mm)	F=Lx32% Fmm Load N(kgf)	F=Lx36% Fmm Load N(kgf)	F=Lx40% Fmm Load N(kgf)	Part Number Type D-L	Unit Price
6	3	15	13.1(1.33)	4.8	5.4	6.0	SWL 6-	15
		20	9.8(1.00)	6.4	7.2	8.0	20	
		25	7.8(0.80)	8.0	9.0	10.0	25	
		30	6.5(0.67)	9.6	10.8	12.0	30	
		35	5.6(0.57)	11.2	12.6	14.0	35	
		40	4.9(0.50)	12.8	14.4	16.0	40	
8	4	10	24.5(2.50)	3.2	3.6	4.0	SWL 8-	10
		15	16.3(1.67)	4.8	5.4	6.0	15	
		20	12.3(1.25)	6.4	7.2	8.0	20	
		25	9.8(1.00)	8.0	9.0	10.0	25	
		30	8.2(0.83)	9.6	10.8	12.0	30	
		35	7.0(0.71)	11.2	12.6	14.0	35	
		40	6.1(0.63)	12.8	14.4	16.0	40	
		45	5.4(0.56)	14.4	16.2	18.0	45	
		50	4.9(0.50)	16.0	18.0	20.0	50	
		55	4.5(0.45)	17.6	19.8	22.0	55	
		60	4.1(0.42)	19.2	21.6	24.0	60	
		65	3.8(0.38)	20.8	23.4	26.0	65	
		70	3.5(0.36)	22.4	25.2	28.0	70	
		75	3.3(0.33)	24.0	27.0	30.0	75	
80	3.1(0.31)	25.6	28.8	32.0	80			
10	5	10	34.3(3.50)	3.2	3.6	4.0	SWL 10-	10
		15	22.9(2.33)	4.8	5.4	6.0	15	
		20	17.2(1.75)	6.4	7.2	8.0	20	
		25	13.7(1.40)	8.0	9.0	10.0	25	
		30	11.4(1.17)	9.6	10.8	12.0	30	
		35	9.8(1.00)	11.2	12.6	14.0	35	
		40	8.6(0.88)	12.8	14.4	16.0	40	
		45	7.6(0.78)	14.4	16.2	18.0	45	
		50	6.9(0.70)	16.0	18.0	20.0	50	
		55	6.2(0.64)	17.6	19.8	22.0	55	
		60	5.7(0.58)	19.2	21.6	24.0	60	
		65	5.3(0.54)	20.8	23.4	26.0	65	
		70	4.9(0.50)	22.4	25.2	28.0	70	
		75	4.6(0.47)	24.0	27.0	30.0	75	
80	4.3(0.44)	25.6	28.8	32.0	80			
90	3.8(0.39)	28.8	32.4	36.0	90			
12	6	15	34.3(3.50)	4.8	5.4	6.0	SWL 12-	15
		20	25.7(2.63)	6.4	7.2	8.0	20	
		25	20.6(2.10)	8.0	9.0	10.0	25	
		30	17.2(1.75)	9.6	10.8	12.0	30	
		35	14.7(1.50)	11.2	12.6	14.0	35	
		40	12.9(1.31)	12.8	14.4	16.0	40	
		45	11.4(1.17)	14.4	16.2	18.0	45	
		50	10.3(1.05)	16.0	18.0	20.0	50	
		55	9.4(0.95)	17.6	19.8	22.0	55	
		60	8.6(0.88)	19.2	21.6	24.0	60	
		65	7.9(0.81)	20.8	23.4	26.0	65	
		70	7.4(0.75)	22.4	25.2	28.0	70	
		75	6.9(0.70)	24.0	27.0	30.0	75	
		80	6.4(0.66)	25.6	28.8	32.0	80	
90	5.7(0.58)	28.8	32.4	36.0	90			
14	7	20	34.3(3.50)	6.4	7.2	8.0	SWL 14-	20
		25	27.5(2.80)	8.0	9.0	10.0	25	
		30	22.9(2.33)	9.6	10.8	12.0	30	
		35	19.6(2.00)	11.2	12.6	14.0	35	
		40	17.2(1.75)	12.8	14.4	16.0	40	
		45	15.3(1.56)	14.4	16.2	18.0	45	
		50	13.7(1.40)	16.0	18.0	20.0	50	
		55	12.5(1.27)	17.6	19.8	22.0	55	
		60	11.4(1.17)	19.2	21.6	24.0	60	
		65	10.6(1.08)	20.8	23.4	26.0	65	
		70	9.8(1.00)	22.4	25.2	28.0	70	
		75	9.2(0.93)	24.0	27.0	30.0	75	
		80	8.6(0.88)	25.6	28.8	32.0	80	
		90	7.6(0.78)	28.8	32.4	36.0	90	
100	6.9(0.70)	32.0	36.0	40.0	100			

Usage Count 1 Million Times 500,000 Times 300,000 Times

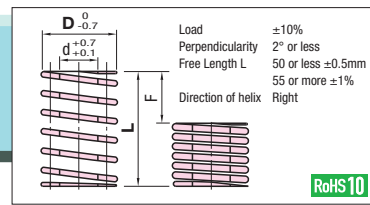
Ordering Example Part Number SWL22-100 SWM20-80  
 \* Load calculation method = Spring constant x Deflection (Nt Unit) N=N/mmxFmm kgf=kgf/mmxFmm (kgf=Nx0.101972)  
 Material: Oil tempered wires for springs

D	d	L	Spring Constant N/mm(kgf/mm)	F=Lx32% Fmm Load N(kgf)	F=Lx36% Fmm Load N(kgf)	F=Lx40% Fmm Load N(kgf)	Part Number Type D-L	Unit Price
16	8	20	42.9(4.38)	6.4	7.2	8.0	SWL 16-	20
		25	34.3(3.50)	8.0	9.0	10.0	25	
		30	28.6(2.92)	9.6	10.8	12.0	30	
		35	24.5(2.50)	11.2	12.6	14.0	35	
		40	21.5(2.19)	12.8	14.4	16.0	40	
		45	19.1(1.94)	14.4	16.2	18.0	45	
		50	17.2(1.75)	16.0	18.0	20.0	50	
		55	15.6(1.59)	17.6	19.8	22.0	55	
		60	14.3(1.46)	19.2	21.6	24.0	60	
		65	13.2(1.35)	20.8	23.4	26.0	65	
		70	12.3(1.25)	22.4	25.2	28.0	70	
		75	11.4(1.17)	24.0	27.0	30.0	75	
		80	10.7(1.09)	25.6	28.8	32.0	80	
		90	9.5(0.97)	28.8	32.4	36.0	90	
100	8.6(0.88)	32.0	36.0	40.0	100			
125	6.9(0.70)	40.0	45.0	50.0	125			
18	9	20	52.7(5.38)	6.4	7.2	8.0	SWL 18-	20
		25	42.4(4.30)	8.0	9.0	10.0	25	
		30	35.1(3.58)	9.6	10.8	12.0	30	
		35	30.1(3.07)	11.2	12.6	14.0	35	
		40	26.4(2.69)	12.8	14.4	16.0	40	
		45	23.4(2.39)	14.4	16.2	18.0	45	
		50	21.1(2.15)	16.0	18.0	20.0	50	
		55	19.2(1.95)	17.6	19.8	22.0	55	
		60	17.6(1.79)	19.2	21.6	24.0	60	
		65	16.2(1.65)	20.8	23.4	26.0	65	
		70	15.1(1.54)	22.4	25.2	28.0	70	
		75	14.1(1.43)	24.0	27.0	30.0	75	
		80	13.2(1.34)	25.6	28.8	32.0	80	
		90	11.7(1.19)	28.8	32.4	36.0	90	
100	10.5(1.08)	32.0	36.0	40.0	100			
125	8.4(0.86)	40.0	45.0	50.0	125			
20	10	20	66.2(6.75)	6.4	7.2	8.0	SWL 20-	20
		25	53.0(5.40)	8.0	9.0	10.0	25	
		30	44.1(4.50)	9.6	10.8	12.0	30	
		35	37.8(3.86)	11.2	12.6	14.0	35	
		40	33.1(3.38)	12.8	14.4	16.0	40	
		45	29.4(3.00)	14.4	16.2	18.0	45	
		50	26.5(2.70)	16.0	18.0	20.0	50	
		55	24.1(2.45)	17.6	19.8	22.0	55	
		60	22.1(2.25)	19.2	21.6	24.0	60	
		65	20.4(2.08)	20.8	23.4	26.0	65	
		70	18.9(1.93)	22.4	25.2	28.0	70	
		75	17.7(1.80)	24.0	27.0	30.0	75	
		80	16.5(1.69)	25.6	28.8	32.0	80	
		90	14.7(1.50)	28.8	32.4	36.0	90	
100	13.2(1.35)	32.0	36.0	40.0	100			
125	10.6(1.08)	40.0	45.0	50.0	125			
150	8.8(0.90)	48.0	54.0	60.0	150			
22	11	25	65.7(6.70)	8.0	9.0	10.0	SWL 22-	25
		30	54.8(5.58)	9.6	10.8	12.0	30	
		35	46.9(4.79)	11.2	12.6	14.0	35	
		40	41.1(4.19)	12.8	14.4	16.0	40	
		45	36.5(3.72)	14.4	16.2	18.0	45	
		50	32.9(3.35)	16.0	18.0	20.0	50	
		55	29.9(3.05)	17.6	19.8	22.0	55	
		60	27.4(2.79)	19.2	21.6	24.0	60	
		65	25.3(2.58)	20.8	23.4	26.0	65	
		70	23.5(2.39)	22.4	25.2	28.0	70	
		75	21.9(2.23)	24.0	27.0	30.0	75	
		80	20.5(2.09)	25.6	28.8	32.0	80	
		90	18.3(1.86)	28.8	32.4	36.0	90	
		100	16.4(1.68)	32.0	36.0	40.0	100	
125	13.1(1.34)	40.0	45.0	50.0	125			
150	11.0(1.12)	48.0	54.0	60.0	150			
25	12.5	25	82.4(8.40)	8.0	9.0	10.0	SWL 25-	25
		30	68.7(7.00)	9.6	10.8	12.0	30	
		35	58.8(6.00)	11.2	12.6	14.0	35	
		40	51.5(5.25)	12.8	14.4	16.0	40	
		45	45.8(4.67)	14.4	16.2	18.0	45	
		50	41.2(4.20)	16.0	18.0	20.0	50	
		55	37.4(3.82)	17.6	19.8	22.0	55	
		60	34.3(3.50)	19.2	21.6	24.0	60	
		65	31.7(3.23)	20.8	23.4	26.0	65	
		70	29.4(3.00)	22.4	25.2	28.0	70	
		75	27.5(2.80)	24.0	27.0	30.0	75	
		80	25.7(2.63)	25.6	28.8	32.0	80	
		90	22.9(2.33)	28.8	32.4	36.0	90	
		100	20.6(2.10)	32.0	36.0	40.0	100	
125	16.5(1.68)	40.0	45.0	50.0	125			
150	13.7(1.40)	48.0	54.0	60.0	150			
175	11.8(1.20)	56.0	63.0	70.0	175			
200	10.3(1.05)	64.0	72.0	80.0	200			

Usage Count 1 Million Times 500,000 Times 300,000 Times

# Coil Spring

## Medium Load SWM



D	d	L	Spring Constant N/mm(kgf/mm)	F=Lx25.6% Fmm Load N(kgf)	F=Lx28.8% Fmm Load N(kgf)	F=Lx32% Fmm Load N(kgf)	Part Number Type D-L	Unit Price
6	3	15	20.4(2.08)	3.8	4.3	4.8	SWM 6-	15
		20	15.3(1.56)	5.1	5.8	6.4	20	
		25	12.3(1.25)	6.4	7.2	8.0	25	
		30	10.2(1.04)	7.7	8.6	9.6	30	
		35	8.8(0.89)	9.0	10.1	11.2	35	
		40	7.7(0.78)	10.2	11.5	12.8	40	
		45	6.8(0.69)	11.5	13.0	14.4	45	
		50	6.1(0.63)	12.8	14.4	16.0	50	
		55	5.6(0.57)	14.1	15.8	17.6	55	
		60	5.1(0.52)	15.4	17.3	19.2	60	
		10	42.9(4.37)	2.6	2.9	3.2	SWM 8-	10
		15	28.6(2.91)	3.8	4.3	4.8	15	
		20	21.5(2.18)	5.1	5.8	6.4	20	