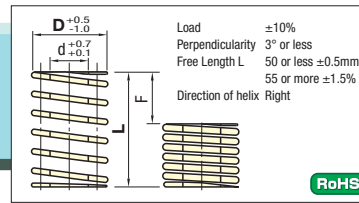


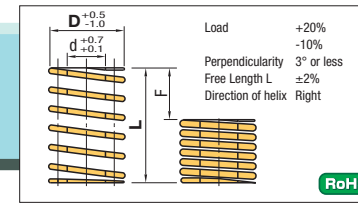
Coil Spring

For High Deflection SWR



Coil Spring

For Medium Deflection SWS



D	d	L	N/mm (kgf/mm)	F=Lx50%	Part Number	Unit Price
			(Spring Constant)	Fmm N(kgf) Load	Type D-L	
10.5	6.0	15	10.46(1.07)	7.5	SWR105-	15
		20	7.85(0.80)	10.0		20
		25	6.28(0.64)	12.5		25
		30	5.23(0.53)	15.0		30
		35	4.48(0.46)	17.5		35
		40	3.92(0.40)	20.0		40
		45	3.49(0.36)	22.5		45
		50	3.14(0.32)	25.0		50
		55	2.85(0.29)	27.5		55
		60	2.62(0.27)	30.0		60
		65	2.41(0.25)	32.5		65
		70	2.24(0.23)	35.0		70
		75	2.09(0.21)	37.5		75
		80	1.96(0.20)	40.0		80
		12.5	7.0	15		11.77(1.20)
20	8.83(0.90)			10.0	20	
25	7.06(0.72)			12.5	25	
30	5.88(0.60)			15.0	30	
35	5.04(0.51)			17.5	35	
40	4.41(0.45)			20.0	40	
45	3.92(0.40)			22.5	45	
50	3.53(0.36)			25.0	50	
55	3.21(0.33)			27.5	55	
60	2.94(0.30)			30.0	60	
65	2.72(0.28)			32.5	65	
70	2.52(0.26)			35.0	70	
75	2.35(0.24)			37.5	75	
80	2.21(0.23)			40.0	80	
90	1.96(0.20)			45.0	90	
100	1.77(0.18)	50.0	100			
14.5	8.5	15	17.00(1.73)	7.5	SWR145-	15
		20	12.75(1.30)	10.0		20
		25	10.20(1.04)	12.5		25
		30	8.50(0.87)	15.0		30
		35	7.28(0.74)	17.5		35
		40	6.37(0.65)	20.0		40
		45	5.67(0.58)	22.5		45
		50	5.10(0.52)	25.0		50
		55	4.64(0.47)	27.5		55
		60	4.25(0.43)	30.0		60
		65	3.92(0.40)	32.5		65
		70	3.64(0.37)	35.0		70
		75	3.40(0.35)	37.5		75
		80	3.19(0.33)	40.0		80
		90	2.83(0.29)	45.0		90
100	2.55(0.26)	50.0	100			
125	2.04(0.21)	62.5	125			
150	1.70(0.17)	75.0	150			
17	10.5	20	19.61(2.00)	10.0	SWR17-	20
		25	15.69(1.60)	12.5		25
		30	13.08(1.33)	15.0		30
		35	11.21(1.14)	17.5		35
		40	9.81(1.00)	20.0		40
		45	8.72(0.89)	22.5		45
		50	7.85(0.80)	25.0		50
		55	7.13(0.73)	27.5		55
		60	6.54(0.67)	30.0		60
		65	6.03(0.62)	32.5		65
		70	5.60(0.57)	35.0		70
		75	5.23(0.53)	37.5		75
		80	4.90(0.50)	40.0		80
		90	4.36(0.44)	45.0		90
		100	3.92(0.40)	50.0		100
125	3.14(0.32)	62.5	125			
150	2.62(0.27)	75.0	150			
175	2.24(0.23)	87.5	175			

D	d	L	N/mm (kgf/mm)	F=Lx50%	Part Number	Unit Price
			(Spring Constant)	Fmm N(kgf) Load	Type D-L	
21	13.5	25	23.54(2.40)	12.5	SWR21-	25
		30	19.61(2.00)	15.0		30
		35	16.81(1.71)	17.5		35
		40	14.71(1.50)	20.0		40
		45	13.08(1.33)	22.5		45
		50	11.77(1.20)	25.0		50
		55	10.07(1.09)	27.5		55
		60	9.81(1.00)	30.0		60
		65	9.05(0.92)	32.5		65
		70	8.41(0.86)	35.0		70
		75	7.85(0.80)	37.5		75
		80	7.35(0.75)	40.0		80
		90	6.54(0.67)	45.0		90
		100	5.88(0.60)	50.0		100
		26	16.5	25		31.38(3.20)
30	26.15(2.67)			15.0	30	
35	22.42(2.29)			17.5	35	
40	19.61(2.00)			20.0	40	
45	17.43(1.78)			22.5	45	
50	15.69(1.60)			25.0	50	
55	14.26(1.45)			27.5	55	
60	13.08(1.33)			30.0	60	
65	12.07(1.23)			32.5	65	
70	11.21(1.14)			35.0	70	
75	10.46(1.07)			37.5	75	
80	9.81(1.00)			40.0	80	
90	8.72(0.89)			45.0	90	
100	7.85(0.80)			50.0	100	
31	21			25	40.32(4.13)	12.5
		30	34.52(3.54)	15.0	30	
		35	29.61(3.03)	17.5	35	
		40	25.42(2.60)	20.0	40	
		45	21.79(2.22)	22.5	45	
		50	19.61(2.00)	25.0	50	
		55	17.83(1.82)	27.5	55	
		60	16.34(1.67)	30.0	60	
		65	15.09(1.54)	32.5	65	
		70	14.01(1.43)	35.0	70	
		75	13.08(1.33)	37.5	75	
		80	12.26(1.25)	40.0	80	
		90	10.90(1.11)	45.0	90	
		100	9.81(1.00)	50.0	100	
		36	26	25	50.96(5.20)	12.5
30	44.13(4.50)			15.0	30	
35	38.33(3.93)			17.5	35	
40	33.10(3.38)			20.0	40	
45	29.42(3.00)			22.5	45	
50	26.48(2.70)			25.0	50	
55	24.07(2.45)			27.5	55	
60	22.06(2.25)			30.0	60	
65	20.37(2.08)			32.5	65	
70	18.91(1.93)			35.0	70	
75	17.65(1.80)			37.5	75	
80	16.60(1.69)			40.0	80	
90	15.41(1.57)			45.0	90	
100	14.38(1.47)			50.0	100	
43	31			25	64.52(6.63)	12.5
		30	56.52(5.79)	15.0	30	
		35	49.61(5.07)	17.5	35	
		40	43.52(4.47)	20.0	40	
		45	38.33(3.93)	22.5	45	
		50	33.10(3.38)	25.0	50	
		55	29.42(3.00)	27.5	55	
		60	26.48(2.70)	30.0	60	
		65	24.07(2.45)	32.5	65	
		70	22.06(2.25)	35.0	70	
		75	20.37(2.08)	37.5	75	
		80	18.91(1.93)	40.0	80	
		90	17.65(1.80)	45.0	90	
		100	16.60(1.69)	50.0	100	
		50	36	25	80.96(8.32)	12.5
30	71.52(7.31)			15.0	30	
35	63.33(6.56)			17.5	35	
40	56.52(5.79)			20.0	40	
45	50.96(5.20)			22.5	45	
50	46.13(4.73)			25.0	50	
55	41.96(4.30)			27.5	55	
60	38.33(3.93)			30.0	60	
65	35.10(3.59)			32.5	65	
70	32.26(3.33)			35.0	70	
75	29.61(3.03)			37.5	75	
80	27.19(2.79)			40.0	80	
90	25.42(2.60)			45.0	90	
100	24.07(2.45)			50.0	100	

D	d	L	N/mm (kgf/mm)	F=Lx40%	Part Number	Unit Price
			(Spring Constant)	Fmm N(kgf) Load	Type D-L	
10.5	5.5	20	10.90(1.11)	8.0	SWS105-	20
		25	8.72(0.89)	10.0		25
		30	7.27(0.74)	12.0		30
		35	6.23(0.64)	14.0		35
		40	5.45(0.56)	16.0		40
		45	4.84(0.49)	18.0		45
		50	4.36(0.44)	20.0		50
		55	3.96(0.40)	22.0		55
		60	3.63(0.37)	24.0		60
		65	3.35(0.34)	26.0		65
		70	3.11(0.32)	28.0		70
		75	2.91(0.30)	30.0		75
		80	2.73(0.28)	32.0		80
		125	2.25(0.23)	40.0		125
		12.5	6.5	20		15.25(1.56)
25	12.20(1.24)			10.0	25	
30	10.17(1.04)			12.0	30	
35	8.71(0.89)			14.0	35	
40	7.63(0.78)			16.0	40	
45	6.78(0.69)			18.0	45	
50	6.10(0.62)			20.0	50	
55	5.55(0.57)			22.0	55	
60	5.08(0.52)			24.0	60	
65	4.69(0.48)			26.0	65	
70	4.36(0.44)			28.0	70	
75	4.07(0.41)			30.0	75	
80	3.81(0.39)			32.0	80	
125	3.25(0.33)			40.0	125	
14.5	8.5			20	24.50(2.50)	8.0
		25	19.61(2.00)	10.0	25	
		30	16.33(1.67)	12.0	30	
		35	14.00(1.43)	14.0	35	
		40	12.25(1.25)	16.0	40	
		45	10.89(1.11)	18.0	45	
		50	9.80(1.00)	20.0	50	
		55	8.91(0.91)	22.0	55	
		60	8.17(0.83)	24.0	60	
		65	7.54(0.77)	26.0	65	
		70	7.00(0.71)	28.0	70	
		75	6.53(0.67)	30.0	75	
		80	6.13(0.62)	32.0	80	
		90	5.44(0.56)	36.0	90	
		100	4.90(0.50)	40.0	100	
125	3.92(0.40)	50.0	125			
150	3.27(0.33)	60.0	150			
17	10.5	25	29.42(3.00)	10.0	SWS17-	25
		30	24.52(2.50)	12.0		30
		35	21.01(2.14)	14.0		35
		40	18.39(1.88)	16.0		40
		45	16.34(1.67)	18.0		45
		50	14.71(1.50)	20.0		50
		55	13.37(1.36)	22.0		55
		60	12.26(1.25)	24.0		60
		65	11.32(1.15)	26.0		65
		70	10.51(1.07)	28.0		70
		75	9.81(1.00)	30.0		75
		80	9.19(0.94)	32.0		80
		90	8.17(0.83)	36.0		90
		100	7.35(0.75)	40.0		100
		125	5.88(0.60)	50.0		125
150	4.90(0.50)	60.0	150			
21	13.5	25	52.96(5.40)	12.5	SWR21-	25
		30	44.13(4.50)	15.0		30
		35	38.33(3.93)	17.5		35
		40	33.10(3.38)	20.0		40
		45	29.42(3.00)	22.5		45
		50	26.48(2.70)	25.0		50
		55	24.07(2.45)	27.5		55
		60	22.06(2.25)	30.0		60
		65	20.37(2.08)	32.5		65
		70	18.91(1.93)	35.0		70
		75	17.65(1.80)	37.5		75
		80	16.60(1.69)	40.0		80
		90	15.41(1.57)	45.0		90