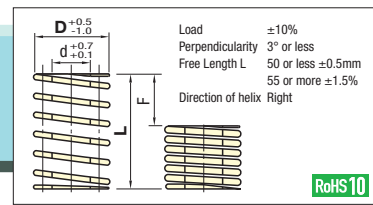


Coil Spring

For High Deflection SWR



RoHS 10

D	d	L	N/mm (kgf/mm)		F=Lx50% Fmm N(kgf) Load	Part Number Type D-L	Unit Price
			(Spring Constant)				
10.5	6.0	15	10.46(1.07)	7.5	78.5 (8.0)	SWR10.5-	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
12.5	7.0	15	11.77(1.20)	7.5	88.3 (9.0)	SWR12.5-	15
		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
14.5	8.5	15	17.00(1.73)	7.5	127.5 (13.0)	SWR14.5-	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
17	10.5	15	19.61(2.00)	10.0	196.1 (20.0)	SWR17-	15
		20	15.69(1.60)	12.5			20
		25	13.08(1.33)	15.0			25
		30	11.21(1.14)	17.5			30
		35	9.81(1.00)	20.0			35
		40	8.72(0.89)	22.5			40
		45	7.85(0.80)	25.0			45
		50	7.13(0.73)	27.5			50
		55	6.54(0.67)	30.0			55
		60	6.03(0.62)	32.5			60

D	d	L	N/mm (kgf/mm)		F=Lx50% Fmm N(kgf) Load	Part Number Type D-L	Unit Price
			(Spring Constant)				
21	13.5	25	23.54(2.40)	12.5	294.2 (30.0)	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
26	16.5	25	31.38(3.20)	12.5	392.3 (40.0)	SWR26-	25
		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
31	21	25	28.02(2.86)	17.5	490.3 (50.0)	SWR31-	25
		30	24.52(2.50)	20.0			30
		35	21.79(2.22)	22.5			35
		40	19.61(2.00)	25.0			40
		45	17.83(1.82)	27.5			45
		50	16.34(1.67)	30.0			50
		55	15.09(1.54)	32.5			55
		60	14.01(1.43)	35.0			60
		65	13.08(1.33)	37.5			65
		70	12.26(1.25)	40.0			70

D	d	L	N/mm (kgf/mm)		F=Lx50% Fmm N(kgf) Load	Part Number Type D-L	Unit Price
			(Spring Constant)				
37	20	35	33.62(3.43)	17.5	588.4 (60.0)	SWR37-	35
		40	29.42(3.00)	20.0			40
		45	26.15(2.67)	22.5			45
		50	23.54(2.40)	25.0			50
		55	21.40(2.18)	27.5			55
		60	19.61(2.00)	30.0			60
		65	18.10(1.85)	32.5			65
		70	16.81(1.71)	35.0			70
		75	15.69(1.60)	37.5			75
		80	14.71(1.50)	40.0			80
43	31	50	33.34(3.40)	25.0	833.6 (85.0)	SWR43-	50
		60	27.79(2.83)	30.0			60
		70	23.82(2.43)	35.0			70
		80	20.84(2.13)	40.0			80
		90	18.52(1.89)	45.0			90
		100	16.67(1.70)	50.0			100
		110	15.16(1.55)	55.0			110
		120	13.89(1.42)	60.0			120
		130	12.82(1.31)	65.0			130
		140	11.91(1.21)	70.0			140
46	36	50	43.15(4.40)	25.0	1079 (110.0)	SWR46-	50
		60	35.96(3.67)	30.0			60
		70	30.82(3.14)	35.0			70
		80	26.97(2.75)	40.0			80
		90	23.97(2.44)	45.0			90
		100	21.57(2.20)	50.0			100
		110	19.61(2.00)	55.0			110
		120	17.98(1.83)	60.0			120
		125	17.26(1.76)	62.5			125
		130	16.60(1.69)	65.0			130
50	36	50	52.96(5.40)	25.0	1324 (135.0)	SWR50-	50
		60	44.13(4.50)	30.0			60
		70	37.83(3.86)	35.0			70
		80	33.10(3.38)	40.0			80
		90	29.42(3.00)	45.0			90
		100	26.48(2.70)	50.0			100
		110	24.07(2.45)	55.0			110
		120	22.06(2.25)	60.0			120
		130	20.37(2.08)	65.0			130
		140	18.91(1.93)	70.0			140

Ordering Example
Part Number
SWR37-40

Material: Oil tempered wires for springs

• Load calculation method = Spring constant x Deflection
(Int'l Unit) N=N/mmxFmm
kgf=kgf/mmxFmm
(kgf=Nx0.101972)

Usage count: 1 Million Times (Lx55 is 300,000 Times)

How to use coil springs, and precautions P.328

About D dimension and back facing hole, and D dimension and shaft, see P.1881.