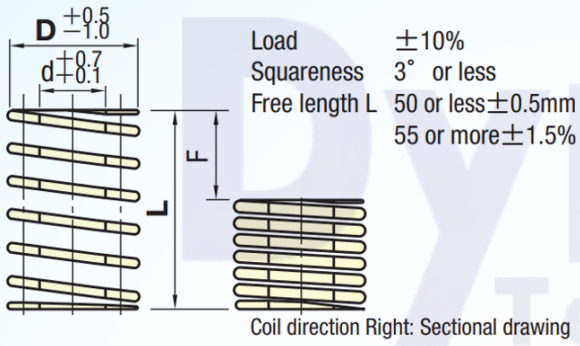
Economy Coil Spring - DE-SWR



Part Number Type D -L	D	d	L	Spring Constant N/mm {kgf/mm}	F = L x 50% Fmm	F = L x 50% Load N{Kgf}
DE-SWR10.5 - 15	10.5	6	15	10.46{1.07}	7.5	78.5
20			20	7.85{0.80}	10	{8.0}
25			25	6.28{0.64}	12.5	
30			30	5.23{0.53}	15	
35			35	4.48{0.46}	17.5	
40			40	3.92{0.40}	20	
45			45	3.49{0.36}	22.5	
50			50	3.14{0.32}	25	
55			55	2.85{0.29}	27.5	
60			60	2.62{0.27}	30	
65			65	2.41{0.25}	32.5	
70			70	2.24{0.23}	35	
75			75	2.09{0.21}	37.5	
80			80	1.96{0.20}	40	
DE-SWR 12.5 - 15	12.5	7	15	11.77{1.20}	7.5	88.3
20			20	8.83{0.90}	10	{9.0}
25			25	7.06{0.72}	12.5	
30			30	5.88{0.60}	15	
35			35	5.04{0.51}	17.5	
40			40	4.41{0.45}	20	
45			45	3.92{0.40}	22.5	
50			50	3.53{0.36}	25	
55			55	3.21{0.33}	27.5	
60			60	2.94{0.30}	30	
65			65	2.72{0.28}	32.5	
70			70	2.52{0.26}	35	
75			75	2.35{0.24}	37.5	
80			80	2.21{0.23}	40	
90			90	1.96{0.20}	45	
100			100	1.77{0.18}	50	
DE-SWR 14.5 - 15	14.5	8.5	15	17.00{1.73}	7.5	127.5
20			20	12.75{1.30}	10	{13.0}
25			25	10.20{1.04}	12.5	
30			30	8.50{0.87}	15	
35			35	7.28{0.74}	17.5	
40			40	6.37{0.65}	20	
45			45	5.67{0.58}	22.5	
50			50	5.10{0.52}	25	
55			55	4.64{0.47}	27.5	
60			60	4.25{0.43}	30	
65			65	3.92{0.40}	32.5	
70			70	3.64{0.37}	35	
75			75	3.40{0.35}	37.5	
80			80	3.19{0.33}	40	
90			90	2.83{0.29}	45	
100			100	2.55{0.26}	50	
125			125	2.04{0.21}	62.5	
150			150	1.70{0.17}	75	
DE-SWR 17 - 20	17	10.5	20	19.61{2.00}	10	196.1
25			25	15.69{1.60}	12.5	{20.0}
30			30	13.08{1.33}	15	
35			35	11.21{1.14}	17.5	
40			40	9.81{1.00}	20	
45			45	8.72{0.89}	22.5	
50			50	7.85{0.80}	25	
55			55	7.13{0.73}	27.5	
60			60	6.54{0.67}	30	
70			70	5.60{0.57}	35	
75			75	5.23{0.53}	37.5	
80			80	4.90{0.50}	40	
90			90	4.36{0.44}	45	
100			100	3.92{0.40}	50	
125			125	3.14{0.32}	62.5	
150			150	2.62{0.27}	75	
175			175	2.24{0.23}	87.5	
DE-SWR 21 - 25	21	13.5	25	23.54{2.40}	12.5	294.2
30			30	19.61{2.00}	15	{30.0}
35			35	16.81{1.71}	17.5	
40			40	14.71{1.50}	20	
45			45	13.08{1.33}	22.5	
50			50	11.77{1.20}	25	
55			55	10.70{1.09}	27.5	
60			60	9.81{1.00}	30	
65			65	9.05{0.92}	32.5	
70			70	8.41{0.86}	35	
75			75	7.85{0.80}	37.5	
80			80	7.35{0.75}	40	
90			90	6.54{0.67}	45	
100			100	5.88{0.60}	50	
110			110	5.35{0.55}	55	
120			120	4.90{0.50}	60	
125			125	4.71{0.48}	62.5	
130			130	4.53{0.46}	65	
140			140	4.20{0.43}	70	
150			150	3.92{0.40}	75	
175			175	3.36{0.34}	87.5	
200			200	2.94{0.30}	100	

Part Number Type D -L	D	d	L	Spring Constant N/mm {kgf/mm}	F = L x 50% Fmm	F = L x 50% Load N{Kgf}
DE-SWR 26 - 25	26	16.5	25	31.38{3.20}	12.5	392.3
30			30	26.15{2.87}	15	{40}
35			35	22.42{2.29}	17.5	
40			40	19.61{2.00}	20	
45			45	17.43{1.78}	22.5	
50			50	15.69{1.60}	25	
55			55	14.26{1.45}	27.5	
60			60	13.08{1.33}	30	
65			65	12.07{1.23}	32.5	
70			70	11.21{1.14}	35	
75			75	10.46{1.07}	37.5	
80			80	9.81{1.00}	40	
90			90	8.72{0.89}	45	
100			100	7.85{0.80}	50	
110			110	7.13{0.73}	55	
120			120	6.54{0.67}	60	
125			125	6.28{0.64}	62.5	
130			130	6.03{0.62}	65	
140			140	5.60{0.57}	70	
150			150	5.23{0.53}	75	
175			175	4.48{0.46}	87.5	
200			200	3.92{0.40}	100	
225			225	3.49{0.36}	112.5	
250			250	3.14{0.32}	125	
DE-SWR 31 - 35	31	21	35	28.02{2.86}	17.5	490.3
40			40	24.52{2.50}	20	{50}
45			45	21.79{2.22}	22.5	
50			50	19.61{2.00}	25	
55			55	17.83{1.82}	27.5	
60			60	16.34{1.67}	30	
65			65	15.09{1.54}	32.5	
70			70	14.01{1.43}	35	
75			75	13.08{1.33}	37.5	
80			80	12.26{1.25}	40	
90			90	10.90{1.11}	45	
100			100	9.81{1.00}	50	
110			110	8.92{0.91}	55	
120			120	8.17{0.83}	60	
125			125	7.85{0.80}	62.5	
130			130	7.54{0.77}	65	
140			140	7.00{0.71}	70	
150			150	6.54{0.67}	75	
160			160	6.13{0.63}	80	
170			170	5.77{0.59}	85	
175			175	5.60{0.57}	87.5	
180			180	5.45{0.56}	90	
190			190	5.16{0.53}	95	
200			200	4.90{0.50}	100	
250			250	3.92{0.40}	125	
300			300	3.27{0.33}	150	
DE-SWR 37 - 35	37	26	25	31.38{3.20}	12.5	588.4
30			30	26.15{2.87}	15	{60.0}
35			35	22.42{2.29}	17.5	
40			40	19.61{2.00}	20	
45			45	17.43{1.78}	22.5	
50			50	15.69{1.60}	25	
55			55	14.26{1.45}	27.5	
60			60	13.08{1.33}	30	
65			65	12.07{1.23}	32.5	
70			70	11.21{1.14}	35	
75			75	10.46{1.07}	37.5	
80			80	9.81{1.00}	40	
90			90	8.72{0.89}	45	
100			100	7.85{0.80}	50	
110			110	7.13{0.73}	55	
120			120	6.54{0.67}	60	
125			125	6.28{0.64}	62.5	
130			130	6.03{0.62}	65	
140			140	5.60{0.57}	70	
150			150	5.23{0.53}	75	
175			175	4.48{0.46}	87.5	
200			200	3.92{0.40}	100	
225			225	3.49{0.36}	112.5	
250			250	3.14{0.32}	125	
DE-SWR 43 - 50	43	31	50	33.34{3.40}	25	833.6
60			60	27.79{2.83}	30	{85.0}
70			70	23.82{2.43}	35	
80			80	20.84{2.13}	40	
90			90	18.52{1.89}	45	
100			100	16.67{1.70}	50	
DE-SWR 46 - 50	46	33	25	43.15{4.40}	25	1079
30			30	35.96{3.67}	30	{110}
35			35	30.82{3.14}	35	
40			40	26.97{2.75}	40	
45			45	23.97{2.44}	45	
50			50	21.57{2.20}	50	
DE-SWR 50 - 50	50	36	50	52.96{5.40}	25	1324
60			60	44.13{4.50}	30	{135}
70			70	37.83{3.86}	35	
80			80	33.10{3.38}	40	
90			90	29.42{3.00}	45	
100			100	26.48{2.70}	50	

Load calculation method: Load=Spring constant×Deflection

(SI units) N = N/mm×Fmm

kgf = kgf/mm×Fmm

(kgf=N×0.101972)

ORDERING GUIDE

Part Number

DE-SWR21 - 80

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