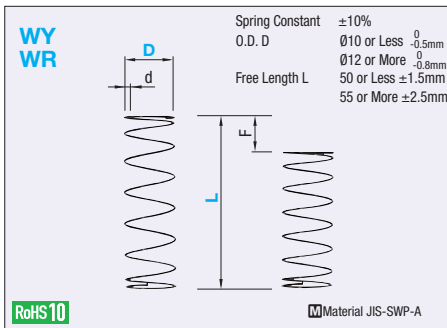


Round Coil Springs

WY, WR: O.D. Referenced



Spring Constant

⚠ D12 and 14 for WY Type and D12, 14 and 20 for WT Type are not available.

Type	WY	WR	WF	WL	WT	WM	WH	WB
2				0.5{0.05}				
3								
4	N/mm 0.1 {kgf/mm {0.01}}				1.5 {0.15}	2.0 {0.2}	2.9{0.3}	3.9{0.4}
5								
6								
8								
10	N/mm 0.2 {kgf/mm {0.02}}	N/mm 0.3 {kgf/mm {0.03}}	N/mm 0.5 {kgf/mm {0.05}}	N/mm 1.0 {kgf/mm {0.1}}	N/mm 2.0 {kgf/mm {0.2}}	N/mm 2.9 {kgf/mm {0.3}}	N/mm 5.9 {kgf/mm {0.6}}	N/mm 9.8 {kgf/mm {1.0}}
12								
13								
14								
16								
18								
20		N/mm 0.5 {kgf/mm {0.05}}	N/mm 1.0 {kgf/mm {0.1}}	N/mm 2.9 {kgf/mm {0.3}}	N/mm 3.9 {kgf/mm {0.4}}	N/mm 4.9 {kgf/mm {0.5}}	N/mm 14.7 {kgf/mm {1.5}}	N/mm 19.6 {kgf/mm {2.0}}
22								
27								N/mm 29.4 {kgf/mm {3.0}}
Fmax.	F=L×75%	F=L×60%	F=L×45%	F=L×40%	F=L×40%	F=L×35%	F=L×30%	F=L×25%



Ordering Example

Part Number

WY13-60

WY: Fmax. (Allowable Deflection) =Lx75%

d	Solid Length	F max.	Load N{kgf} max.	Part Number Type D-L	Unit Price 10 - 19 pcs.
0.16	1.0	3.75	0.38{0.04}	WY3- 5	
0.2	2.0	7.5	0.75{0.08}	10	
0.23	3.6	11.2	1.12{0.11}	15	
0.23	3.6	15	1.5{0.15}	20	
0.25	5.5	18.7	1.87{0.19}	25	
0.26	6.5	22.5	2.25{0.23}	30	
0.2	1.1	3.75	0.38{0.04}	WY4- 5	
0.23	1.9	7.5	0.7{0.08}	10	
0.23	1.9	11.2	1.1{0.11}	15	
0.25	2.7	15	1.5{0.15}	20	
0.29	5	18.7	1.8{0.19}	25	
0.29	5	22.5	2.2{0.23}	30	
0.32	7.7	26.2	2.6{0.26}	35	
0.32	7.7	30	2.9{0.3}	40	
0.25	1.7	7.5	0.7{0.08}	WY5-10	
0.25	1.7	11.2	1.1{0.11}	15	
0.3	3.2	15	1.5{0.15}	20	
0.3	3.2	18.7	1.8{0.19}	25	
0.35	6.3	22.5	2.2{0.23}	30	
0.35	6.3	26.2	2.6{0.26}	35	
0.38	9.2	30	2.9{0.3}	40	
0.38	9.2	33.7	3.3{0.34}	45	
0.38	9.2	37.5	3.7{0.38}	50	
0.3	2.1	7.5	0.75{0.08}	WY6-10	
0.32	2.8	11.2	1.1{0.11}	15	
0.32	2.8	15	1.5{0.15}	20	
0.35	4.1	18.7	1.8{0.19}	25	
0.38	5.6	22.5	2.2{0.23}	30	
0.38	5.6	26.2	2.6{0.26}	35	
0.4	7.2	30	2.9{0.3}	40	
0.4	7.2	33.7	3.3{0.34}	45	
0.4	7.2	37.5	3.7{0.38}	50	
0.45	12.2	41.2	4.0{0.41}	55	
0.45	12.2	45	4.4{0.45}	60	
0.45	12.2	48.7	4.8{0.49}	65	
0.45	12.2	52.5	5.1{0.53}	70	

d	Solid Length	F max.	Load N{kgf} max.	Part Number Type D-L	Unit Price 10 - 19 pcs.
0.35	2.1	7.5	0.75{0.08}	WY8- 10	
0.38	3	11.2	1.1{0.11}	15	
0.4	3.5	15	1.5{0.15}	20	
0.4	3.5	18.7	1.8{0.19}	25	
0.45	5.7	22.5	2.2{0.23}	30	
0.45	5.7	26.2	2.6{0.26}	35	
0.45	5.7	30	2.9{0.3}	40	
0.45	5.7	33.7	3.3{0.34}	45	
0.5	9	37.5	3.7{0.38}	50	
0.5	9	41.2	4.0{0.41}	55	
0.5	9	45	4.4{0.45}	60	
0.5	9	48.7	4.8{0.49}	65	
0.5	9	52.5	5.1{0.53}	70	
0.5	3	11.2	2.26{0.23}	WY10-15	
0.55	4.6	15	2.9{0.3}	20	
0.55	4.6	18.7	3.7{0.37}	25	
0.6	6.6	22.5	4.4{0.45}	30	
0.6	6.6	26.2	5.1{0.52}	35	
0.65	9.1	30	5.9{0.6}	40	
0.65	9.1	33.7	6.6{0.67}	45	
0.65	9.1	37.5	7.4{0.75}	50	
0.7	12.6	41.2	8.1{0.82}	55	
0.7	12.6	45	8.8{0.9}	60	
0.7	12.6	48.7	9.6{0.97}	65	
0.7	12.6	52.5	10.3{1.05}	70	

d	Solid Length	F max.	Load N{kgf} max.	Part Number Type D-L	Unit Price 10 - 19 pcs.
0.6	3.9	15	2.9{0.3}	WY13- 20	
0.65	5.1	18.7	3.7{0.37}	25	
0.65	5.1	22.5	4.4{0.45}	30	
0.7	6.7	26.2	5.1{0.52}	35	
0.75	8.7	30	5.9{0.6}	40	
0.75	8.7	33.7	6.6{0.67}	45	
0.8	11.6	37.5	7.4{0.75}	50	
0.8	11.6	41.2	8.1{0.82}	55	
0.8	11.6	45	8.8{0.9}	60	
0.85	15.3	48.7	9.6{0.97}	65	
0.85	15.3	52.5	10.3{1.05}	70	
0.65	3.6	15	2.9{0.3}	WY16-20	
0.7	4.6	18.7	3.7{0.37}	25	
0.75	5.7	22.5	4.4{0.45}	30	
0.8	7	26.2	5.1{0.52}	35	
0.85	9	30	5.9{0.6}	40	
0.85	9	33.7	6.6{0.67}	45	
0.9	11.3	37.5	7.4{0.75}	50	
0.9	11.3	41.2	8.1{0.82}	55	
0.9	11.3	45	8.8{0.9}	60	
0.9	11.3	48.7	9.6{0.97}	65	
0.9	11.3	52.5	10.3{1.05}	70	

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

⚠ Both ends of WY Type springs are not ground.

⚠ The values of solid length are for reference only. There may be some variations depending on the lot.

⚠ Usage Count: 1 Million Times

⚠ Product Outline P.327

⚠ How to use coil springs, and precautions P.328