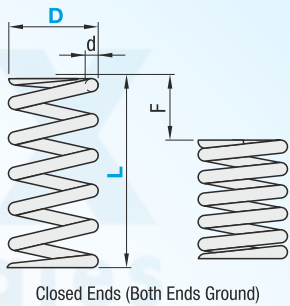
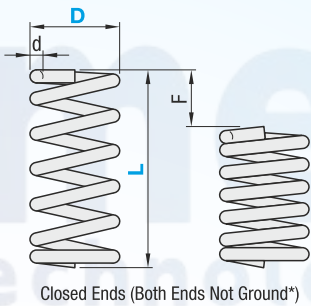
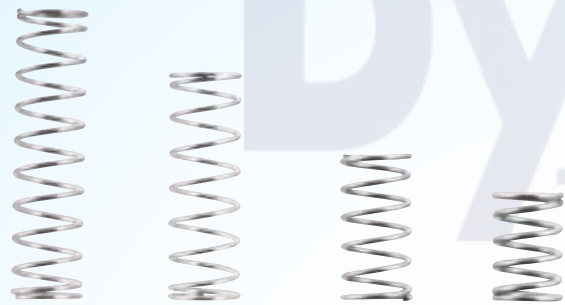


Round Wire Coil Springs/ Deflection 15%-25%/O.D. Referenced



DUBB



Closed Ends (Both Ends Not Ground*)

Closed Ends (Both Ends Ground)

Spring Constant±10% O.D. D Ø10 or Less 0 -0.5mm Ø12 or More 0 -0.8mm Free Length L 50 or Less ±1.5mm 55 or More ±2.5mm

DUBB: Fmax. (Allowable Deflection)=LxFa%

Part Number Type D-L	d	Solid Length	F Max.	N(kgf) max.	Fa%
DUBB4- 5*	0.55	3.3	1.25	6.1 {0.63}	25
10	0.65	7.0	2.5	12.3 {1.3}	
15	0.7	10.3	3.75	18.4 {1.9}	
20	0.75	14.4	5	24.5 {2.5}	
25	0.8	19.4	5	24.5 {2.5}	20
DUBB5- 5	0.6	2.9	1.25	6.1 {0.63}	25
10	0.75	6.9	2.5	12.3 {1.3}	
15	0.8	9.8	3.75	18.4 {1.9}	
20	0.85	13.4	5	24.5 {2.5}	
25	0.9	17.8	6.25	30.6 {3.1}	20
30	0.9	21.8	7.5	36.8 {3.8}	
DUBB6- 5	0.8	3.6	1.25	12.3 {1.3}	
10	0.9	6.8	2.5	24.5 {2.5}	
15	1	10.5	3.75	36.8 {3.8}	25
20	1.1	14.6	5	49.0 {5.0}	
25	1.1	17.9	6.25	61.3 {6.3}	
30	1.2	23.1	6	58.8 {6.0}	
35	1.2	27.3	7	68.6 {7.0}	20
40	1.2	31.2	8	78.5 {8.0}	
45	1.3	34.8	9	88.3 {9.0}	
50	1.3	38.4	10	98.1 {10.0}	
60	1.3	44.2	9	88.3 {9.0}	15
70	1.4	58.5	10.5	103 {10.5}	
DUBB8- 10	1.1	6.9	2.5	24.5 {2.5}	
15	1.2	9.9	3.75	36.8 {3.8}	
20	1.3	14.0	5	49.0 {5.0}	25
25	1.3	14.5	6.25	61.3 {6.3}	
30	1.4	21.4	7.5	73.5 {7.5}	
35	1.4	22.0	8.75	85.8 {8.8}	
40	1.5	28.9	10	98.1 {10.0}	25
45	1.5	32.6	11.25	110 {11.3}	
DUBB10- 10	1.3	7.2	2.5	24.5 {2.5}	
15	1.4	10.2	3.75	36.8 {3.8}	
20	1.5	13.9	5	49.0 {5.0}	25
25	1.5	16.1	6.25	61.3 {6.3}	
30	1.6	20.4	7.5	73.5 {7.5}	
35	1.6	22.8	8.75	85.8 {8.8}	
40	1.7	27.2	10	98.1 {10.0}	25
45	1.7	30.6	11.25	110 {11.3}	
50	1.8	36.5	12.5	123 {12.5}	
60	1.8	41.4	15	147 {15.0}	
70	1.9	50.8	17.5	172 {17.5}	25
DUBB12- 15	1.5	9.4	3.75	36.8 {3.8}	
20	1.6	12.4	5	49.0 {5.0}	
25	1.7	16.2	6.25	61.3 {6.3}	
30	1.8	20.3	7.5	73.5 {7.5}	25
40	1.9	28.0	10	98.1 {10.0}	
50	2	35.5	12.5	123 {12.5}	
60	2.1	43.6	15	147 {15.0}	
70	2.1	48.8	17.5	172 {17.5}	25
80	2.2	58.5	20	196 {20.0}	

Part Number Type D-L	d	Solid Length	F Max.	N(kgf) max.	Fa%
DUBB13- 15	1.8	9.5	3.75	73.5 {7.5}	25
20	1.9	12.9	5	98.1 {10.0}	
25	2	17.0	6.25	123 {12.5}	
30	2.1	20.5	7.5	147 {15.0}	
40	2.3	28.2	10	196 {20.0}	20
45	2.3	32.2	11.25	221 {22.5}	
50	2.4	36.0	12.5	245 {25.0}	
60	2.5	44.4	12	235 {24.0}	
70	2.6	54.0	14	275 {28.0}	20
DUBB14- 15	1.9	10.0	3.75	73.5 { 7.5}	
20	2	13.5	5	98.1 {10.0}	
25	2.1	16.3	6.25	123 {12.5}	
30	2.3	21.3	7.5	147 {15.0}	
35	2.3	24.7	8.75	172 {17.5}	25
40	2.4	28.2	10	196 {20.0}	
60	2.6	43.6	15	294 {30.0}	
80	2.7	61.4	16	314 {32.0}	

Part Number Type D-L	d	Solid Length	F Max.	N(kgf) max.	Fa%
DUBB16- 15	2	10	3.75	73.5 { 7.5}	25
20	2.1	12.1	5	98.1 {10.0}	
25	2.3	17.3	6.25	123 {12.5}	
30	2.4	21	7.5	147 {15.0}	
35	2.5	24.4	8.75	172 {17.5}	25
40	2.6	28	10	196 {20.0}	
45	2.7	31.7	11.25	221 {22.5}	
50	2.7	35.8	12.5	245 {25.0}	
60	2.9	43.5	15	294 {30.0}	20
70	2.9	49.4	17.5	343 {35.0}	
80	3	59.3	16	314 {32.0}	
DUBB20- 25	2.9	16.7	6.25	184 {18.8}	25
30	3	20.3	7.5	221 {22.5}	
35	3	22.7	8.75	257 {26.3}	
40	3.2	27.2	10	294 {30.0}	
45	3.2	29.6	9	265 {27.0}	20
50	3.4	38.3	10	294 {30.0}	
60	3.5	44.6	12	353 {36.0}	

- kgf (Load)=N/mm (Spring Constant) x0.101972xF (Deflection)
{kgf}=Nx0.101972
- For Types marked with *, both ends 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

D12 is applicable to DUY, DUR, DUF, DUL and DUBB Types only. D14 is applicable to UBB Type only.

D	Type	DUV	DUY	DUR	DUF	DUL	DUTT	DUM	DUH	DUBB
2			0.05{0.005}	0.2{0.02}	0.3{0.03}	0.5{0.05}				
3							N/mm 1.5 {kgf/mm} {0.15}	2.0{0.2}	2.9{0.3}	4.9{0.5}
4		N/mm 0.05 {kgf/mm} {0.005}	N/mm 0.098 {kgf/mm} {0.01}							
5										
6										
8				N/mm 0.29 {kgf/mm} {0.03}	N/mm 0.49 {kgf/mm} {0.05}	N/mm 0.98 {kgf/mm} {0.1}				
10										
12										
13			N/mm 0.2 {kgf/mm} {0.02}				N/mm 2.0 {kgf/mm} {0.2}	N/mm 2.9 {kgf/mm} {0.3}		
14										
16									N/mm 9.8 {kgf/mm} {1.0}	N/mm 19.6 {kgf/mm} {2.0}
20										
Fmax		F=Lx70%	F=LxFa%	F=LxFa%	F=Lx45%	F=Lx40%	F=LxFa%	F=LxFa%	F=LxFa%	F=LxFa%



- Basic Specifications
- Material - SUS304-WPB
- Environmentally friendly - RoHS Compliant (10 Substances)
- Type - Round Wire
- Characteristics/Applications - Not applicable

