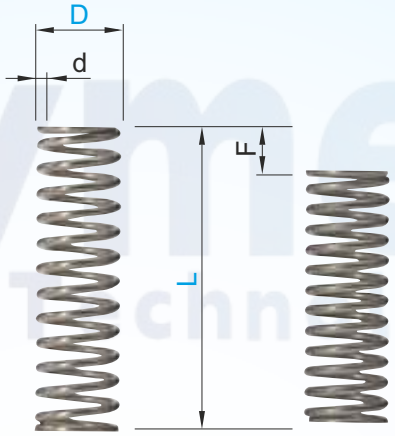
HEAT PROOF WIRE SPRINGS
DWHH (35% DEFLECTION) ● Heat resistant up to 200℃

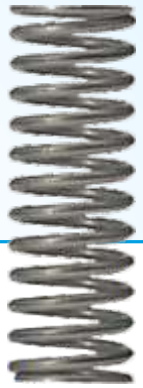
Dymex Technologies

■Spring constant

D \ Type	DWFH	DWLH	DWMH	DWHH
4	N/mm 0.5 (kgf/mm) (0.05)	N/mm 1.0 (kgf/mm) (0.1)	2.0 (0.2)	0.9 (0.3)
5				
6			N/mm 2.9 (kgf/mm) (0.3)	N/mm 5.9 (kgf/mm) (0.6)
8				
10				
12				N/mm 9.8 (kgf/mm) (1.0)
13				
16	1.0 (0.1)	2.9 (0.3)	4.9 (0.5)	14.7 (1.5)
18				
Fmax.	F=L×60%	F=L×50%	F=L×40%	F=L×35%



Spring constant ± 10%
Diameter D φ 10 or less $^{0}_{-0.5mm}$
φ 13 or more $^{0}_{-0.8mm}$
Free length L 50 or less ± 1mm
55 or more ± 1.5mm



● DWHH : Fmax (Allowable Deflection) = L x 35%

◐ **F(Allowable deflection) is due to the measurement at normal temperature (40°C)**
Maximum allowable deflection at high temperature (150°/200°C).

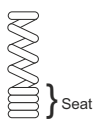
Part No. Type D-L	d	Height Solid	F max.	Load N{kgf} max.
DWHH4 - 5*	0.45	2.3	1.7	5.0 {0.5}
10*	0.5	4.5	3.5	10.3 {1.1}
15	0.6	9	5.2	15.3 {1.6}
20	0.65	12	7	20.6 {2.1}
25	0.65	14.5	8.7	25.6 {2.6}
30	0.7	18	10.5	30.9 {3.2}
DWHH5 - 5*	0.5	2.5	1.7	5.0 {0.5}
10*	0.65	6	3.5	10.3 {1.1}
15	0.7	9	5.2	15.3 {1.6}
20	0.7	10.5	7	20.6 {2.1}
25	0.8	14.8	8.7	25.6 {2.6}
30	0.8	16.8	10.5	30.9 {3.2}
35	0.8	19.2	12.2	35.9 {3.7}
40	0.8	21	14	41.2 {4.2}
DWHH6 - 5*	0.6	2.4	1.8	10.8 {1.1}
10*	0.8	5.5	3.5	20.6 {2.1}
15	0.9	9	5.3	31.4 {3.2}
20*	0.9	12	7	41.2 {4.2}
25	1.0	15	8.8	52.0 {5.3}
30	1.0	17.5	10.5	61.8 {6.3}
35*	1.0	19.5	12.3	72.6 {7.4}
40*	1.0	23.5	14	82.4 {8.4}
45	1.1	25	15.8	93.2 {9.5}
50*	1.1	29	17.5	103.0 {10.5}
55*	1.1	31	19.2	113.0 {11.5}
60*	1.1	36	21	123.6 {12.6}
65	1.2	39	22.7	133.6 {13.6}
70	1.2	40	24.5	144.2 {14.7}

Part No. Type D-L	d	Height Solid	F max.	Load N{kgf} max.
DWHH8 - 10	0.9	5	3.5	20.6 {2.1}
15	1.0	7.5	5.3	31.4 {3.2}
20	1.1	10	7	41.2 {4.2}
25*	1.1	13	8.8	52.0 {5.3}
30	1.2	15	10.5	61.8 {6.3}
35*	1.2	18	12.3	72.6 {7.4}
40*	1.2	22	14	82.4 {8.4}
45*	1.2	25	15.8	93.2 {9.5}
50	1.4	30	17.5	103.0 {10.5}
55	1.4	31	19.2	113.0 {11.5}
60*	1.4	35	21	123.6 {12.6}
65	1.4	37	22.7	133.6 {13.6}
70*	1.4	40	24.5	144.2 {14.7}
80	1.5	47	28	164.8 {16.8}
DWHH10 - 10	1.0	5	3.5	20.6 {2.1}
15*	1.1	8.5	5.3	31.4 {3.2}
20*	1.2	10.5	7	41.2 {4.2}
25*	1.2	14	8.8	52.0 {5.3}
30	1.4	16	10.5	61.8 {6.3}
35*	1.4	19	12.3	72.6 {7.4}
40*	1.4	22	14	82.4 {8.4}
45*	1.4	26	15.8	93.2{ 9.5}
50	1.6	30	17.5	103.0 {10.5}
55	1.6	30	19.2	113.0 {11.5}
60*	1.6	35	21	123.6 {12.6}
65*	1.6	34	22.7	133.6 {13.6}
70*	1.6	41	24.5	144.2 {14.7}
80	1.8	47	28	164.8 {16.8}
DWHH13 - 15	1.4	8.5	5.3	52.0 {5.3}
20	1.6	10	7	68.6 {7.0}
25*	1.6	14.5	8.8	86.3 {8.8}
30	1.8	16.5	10.5	103.0 {10.5}
35*	1.8	20	12.3	120.6 {12.3}
40*	1.8	24	14	137.3 {14.0}
45	2.0	26	15.8	154.9 {15.8}
50	2.0	28	17.5	171.6 {17.5}
55	2.0	28	19.2	188.3 {19.2}
60*	2.0	34	21	205.9 {21.0}
65	2.1	36	22.7	222.6 {22.7}
70*	2.1	42	24.5	240.3 {24.5}
80*	2.1	47	28	274.6 {28.0}
90	2.3	55	31.5	308.9 {31.5}

Part No. Type D-L	d	Height Solid	F max.	Load N{kgf} max.
DWHH16 - 15	1.6	6	5.3	52.0 {5.3}
20	1.8	10	7	68.6 {7.0}
25	2.0	14.5	8.8	86.3 {8.8}
30*	2.0	16.5	10.5	103.0 {10.5}
35	2.1	18.5	12.3	120.6 {12.3}
40*	2.1	24	14	137.3 {14.0}
45*	2.1	27	15.8	154.9 {15.8}
50	2.3	28	17.5	171.6 {17.5}
55	2.3	30	19.2	188.3 {19.2}
60	2.3	34	21	205.9 {21.0}
65	2.3	33	22.7	222.6 {22.7}
70	2.5	42	24.5	240.3 {24.5}
80	2.5	44	28	274.6 {28.0}
90	2.6	54	31.5	308.9 {31.5}
DWHH18 - 20	2.1	11	7	103.0 {10.5}
25*	2.1	15	8.8	128.5 {13.1}
30	2.3	17.5	10.5	154.9 {15.8}
35	2.3	20	12.5	184.4 {18.8}
40	2.5	22	14	205.9 {21.0}
45*	2.5	27	15.8	231.4 {23.6}
50	2.6	29	17.5	257.9 {26.3}
55	2.6	29	19.2	282.4 {28.8}
60*	2.6	36	21	353.0 {36.0}
65	2.9	38	22.7	334.4 {34.1}
70	2.9	43	24.5	360.9 {36.8}
80*	2.9	49	28	411.9 {42.0}
90	3.0	55	31.5	463.9 {47.3}
100*	3.0	63	35	514.8 {52.5}

◐ **N (load) = N/mm (spring constant) × Fmm (deflection)**
Load {kgf} = Load N × 0.101972

- ◐ No grinding on both ends of springs marked with ✱
- ◐ The solid height values are for reference only. There may be some dispersions depending on the lot.
- ◐ Times used: 1 million
- ◐ Instructions and notes for coil springs
- ◐ Coil springs marked with ● have spring seat(s) on one end or both ends in order to reduce excessive stress or potential breakage when deflecting.
(The seat becomes 4 rolling extent from 0.5))
Solid height/spring constant values are the same as those without spring seats.



ORDERING GUIDE

Part Number

DWHH 13 - 60

www.dymextech.com
india@dymextech.com