

27~35% Compression

CB137

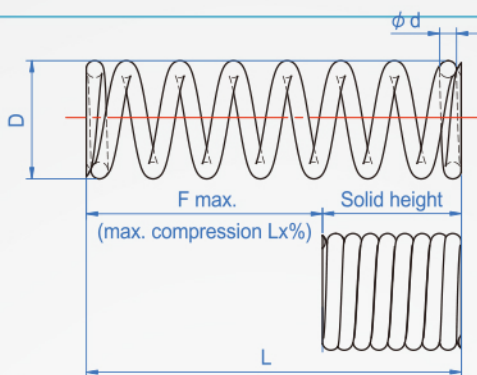
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◆ D Tolerance : Below φ 16 ⁺⁰_{-0.5mm}

◆ L : 50以下 ±1.5mm

◆ End grinding : Wire diameter below φ 0.75 No grinding.
Wire diameter above φ 0.8 is grinding.

◆ Frequency of use : About 100 million times.



Material	Heat resistance	Curl direction
SWP Piano wire JIS G 3522	80°	Right



How to order

① ② ③
CB137 - 5 - 10 - 0.60
TYPE D L d

Unit : mm								
D	L	d	Solid height	max. compression L x %	F max.	Load N/max	Modulus ±10%	
3	5	0.35	2.5	35%	1.8	3.6	2.0 N/mm	
	10	0.38	4.3	35%	3.5	6.9		
	15	0.45	7.0	35%	5.3	10.3		
	20	0.50	11.5	35%	7.0	13.7		
	25	0.50	11.5	30%	7.5	14.7		
	30	0.55	20.4	30%	9.0	17.7		
4	5	0.40	2.3	34%	1.7	3.9	2.9 N/mm	
	10	0.45	3.4	35%	3.5	6.9		
	15	0.50	5.1	35%	5.2	10.8		
	20	0.55	7.7	35%	7.0	13.7		
	25	0.60	11.7	35%	8.7	17.7		
	30	0.60	11.7	35%	10.5	20.6		
5	35	0.65	17.6	35%	12.2	24.0	2.9 N/mm	
	40	0.65	17.6	30%	12.0	23.5		
	5	0.50	2.8	34%	1.7	4.9		2.9 N/mm
	10	0.60	4.2	35%	3.5	9.8		
	15	0.65	6.5	35%	5.2	14.7		
	20	0.65	6.5	35%	7.0	20.6		
6	25	0.70	9.1	35%	8.7	25.5	2.9 N/mm	
	30	0.75	12.7	35%	10.5	30.4		
	35	0.80	17.4	35%	12.2	35.3		
	40	0.85	23.8	35%	14.0	41.2		
	45	0.85	23.8	35%	15.8	46.1		
	50	0.90	30.0	30%	15.0	43.5		
7	55	0.90	30.0	30%	16.5	49.0	2.9 N/mm	
	60	0.90	30.0	30%	18.0	53.0		
	65	0.90	30.0	27%	17.6	52.0		
	70	0.90	30.0	28%	19.6	58.8		
	5	0.55	2.8	34%	1.7	4.9		2.9 N/mm
	10	0.65	4.7	35%	3.5	9.8		
15	0.75	8.0	35%	5.2	14.7			
20	0.75	8.0	35%	7.0	20.6			
8	25	0.85	13.6	35%	8.7	25.5	2.9 N/mm	
	30	0.85	13.6	35%	10.5	30.4		
	35	0.90	18.0	35%	12.2	35.3		
	40	0.90	18.0	35%	14.0	41.2		
	45	0.90	18.0	35%	15.8	46.1		
	50	0.90	18.0	35%	17.5	51.0		
9	55	1.00	31.0	35%	19.2	55.9	2.9 N/mm	
	60	1.00	31.0	30%	18.0	53.0		
	65	1.00	31.0	29%	18.8	54.9		
	70	1.10	47.3	28%	20.0	58.8		
	80	1.10	48.4	28%	22.4	65.9		
	10	0.75	4.2	35%	3.5	9.8		2.9 N/mm
15	0.90	8.5	35%	5.2	14.7			
20	0.90	8.5	35%	7.0	20.6			
25	0.90	8.5	35%	8.7	25.5			
30	0.90	8.5	35%	10.5	30.4			
35	1.00	13.0	35%	12.2	35.3			
10	40	1.00	13.0	35%	14.0	41.2	2.9 N/mm	
	45	1.10	19.8	35%	15.8	46.1		
	50	1.10	19.8	35%	17.5	51.0		
	55	1.20	31.2	35%	19.2	55.9		
	60	1.20	31.2	35%	21.0	61.8		
	65	1.20	31.2	35%	22.7	64.7		
11	70	1.20	31.2	35%	24.5	71.6	2.9 N/mm	
	80	1.30	44.2	35%	28.0	82.4		
	10	0.90	5.2	35%	3.5	9.8		2.9 N/mm
	15	1.00	7.7	35%	5.2	14.7		
	20	1.00	7.7	35%	7.0	20.6		
	25	1.10	11.0	35%	8.7	25.5		
30	1.10	11.0	35%	10.5	30.4			
12	35	1.20	16.2	35%	12.2	35.3	2.9 N/mm	
	40	1.20	16.2	35%	14.0	41.2		
	45	1.30	22.1	35%	15.8	46.1		
	50	1.30	22.1	35%	17.5	51.0		

Unit : mm								
D	L	d	Solid height	max. compression L x %	F max.	Load N/max	Modulus ±10%	
10	55	1.30	22.1	35%	19.2	55.9	2.9 N/mm	
	60	1.40	32.1	35%	21.0	61.8		
	65	1.40	32.1	35%	22.7	64.7		
	70	1.40	32.1	35%	24.5	71.6		
	80	1.40	32.2	35%	28.0	82.4		
	10	1.00	5.0	35%	3.5	10.3		2.9 N/mm
15	1.10	7.4	35%	5.2	14.7			
20	1.10	7.4	35%	7.0	20.6			
25	1.10	7.4	35%	8.7	25.5			
30	1.20	10.2	35%	10.5	30.4			
12	35	1.20	10.2	35%	12.2	35.3	2.9 N/mm	
	40	1.30	14.3	35%	14.0	41.2		
	45	1.30	14.3	35%	15.8	46.1		
	50	1.30	14.3	35%	17.5	51.0		
	55	1.40	19.6	35%	19.2	55.9		
	60	1.40	19.6	35%	21.0	61.8		
13	65	1.50	26.3	35%	22.7	64.7	2.9 N/mm	
	70	1.50	26.3	35%	24.5	71.6		
	80	1.60	36.8	35%	28.0	82.4		
	10	1.00	5.0	35%	3.5	10.3		2.9 N/mm
	15	1.20	8.4	35%	5.2	14.7		
	20	1.30	11.7	35%	7.0	20.6		
25	1.30	11.7	35%	8.7	25.5			
30	1.40	14.5	35%	10.5	30.4			
14	35	1.40	14.5	35%	12.2	35.3	2.9 N/mm	
	40	1.40	14.5	35%	14.0	41.2		
	45	1.40	14.5	35%	15.8	46.1		
	50	1.40	14.5	35%	17.5	51.0		
	55	1.50	22.5	35%	19.2	55.9		
	60	1.50	22.5	35%	21.0	61.8		
15	65	1.60	28.8	35%	22.7	64.7	2.9 N/mm	
	70	1.60	28.8	35%	24.5	71.6		
	80	1.70	37.4	35%	28.0	82.4		
	90	1.70	37.4	35%	31.5	92.2		
	15	1.20	7.5	35%	5.2	14.7		2.9 N/mm
	20	1.30	9.8	35%	7.0	20.6		
25	1.40	13.3	35%	8.7	25.5			
30	1.40	13.3	35%	10.5	30.4			
35	1.40	13.3	35%	12.2	35.3			
16	40	1.40	13.3	35%	14.0	41.2	2.9 N/mm	
	45	1.50	17.3	35%	15.8	46.1		
	50	1.50	17.3	35%	17.5	51.0		
	55	1.50	17.3	35%	19.2	55.9		
	60	1.60	23.2	35%	21.0	61.8		
	65	1.60	23.2	35%	22.7	64.7		
17	70	1.70	30.6	35%	24.5	71.6	2.9 N/mm	
	80	1.70	30.6	35%	28.0	82.4		
	90	1.80	39.6	35%	31.5	92.2		
	15	1.30	7.8	35%	5.2	14.7		2.9 N/mm
	20	1.40	9.8	35%	7.0	20.6		
	25	1.50	12.5	35%	8.7	25.5		
30	1.50	12.5	35%	10.5	30.4			
35	1.60	15.0	35%	12.2	35.3			
18	40	1.60	15.0	35%	14.0	41.2	2.9 N/mm	
	45	1.70	20.4	35%	15.8	46.1		
	50	1.70	20.4	35%	17.5	51.0		
	55	1.80	27.0	35%	19.2	55.9		
	60	1.80	27.0	35%	21.0	61.8		
	65	1.80	27.0	35%	22.7	64.7		
19	70	1.80	27.0	35%	24.5	71.6	2.9 N/mm	
	80	1.80	27.0	35%	28.0	82.4		
	90	1.90	34.2	35%	31.5	92.2		

Example : CB137-5-30-0.75

Length 30 (ex. Tensile 5mm) to load 25

Load=Modulus x Extension + Initial tension

14.5N=2.9N/mm x 5mm

※Load calculation formula : Load(N) = Modulus x Compression

※Conversion : kgf=N x 0.102

※Solid height is the reference value, there will be little difference in the production.