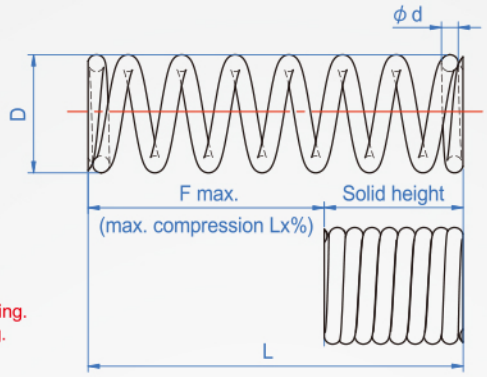
21~30% Compression

CB138

8/9



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

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

◆ 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.

How to order

CB138 - 5 - 20 - 0.75
TYPE D L d

Unit : mm

D	L	d	Solid height	max. compression L x %	max. compression F max.	Load N/max	Modulus ±10%
4	5	0.45	2.7	30%	1.5	4.9	2.9 N/mm
	10	0.45	2.7	30%	3.0	8.8	
	15	0.55	5.8	30%	4.5	13.7	
	20	0.60	8.4	30%	6.0	17.7	
	25	0.65	12.4	30%	7.5	22.6	
	30	0.65	12.4	30%	9.0	26.5	
5	5	0.60	3.3	30%	1.5	8.8	5.9 N/mm
	10	0.70	5.5	30%	3.0	17.7	
	15	0.75	7.5	30%	4.5	26.5	
	20	0.75	7.5	30%	6.0	35.3	
	25	0.85	13.6	30%	7.5	44.1	
	30	0.85	13.6	25%	7.5	44.3	
	35	0.90	17.1	25%	8.8	51.6	
	40	0.90	17.1	22%	8.8	51.9	
6	5	0.65	3.3	30%	1.5	8.8	5.9 N/mm
	10	0.75	5.2	30%	3.0	17.7	
	15	0.80	6.4	30%	4.5	26.5	
	20	0.90	9.9	30%	6.0	35.3	
	25	0.90	9.9	30%	7.5	44.1	
	30	1.00	16.0	30%	9.0	53.0	
	35	1.00	16.0	30%	10.5	61.8	
	40	1.10	25.0	30%	12.0	70.6	
	45	1.10	25.0	25%	11.3	66.7	
	50	1.20	39.6	20%	10.0	58.8	
	55	1.20	39.6	25%	14.5	85.3	
	60	1.20	39.6	23%	14.0	82.4	
	65	1.20	39.6	22%	14.0	82.4	
	70	1.30	39.6	21%	15.0	88.3	
8	10	0.90	5.4	30%	3.0	17.7	5.9 N/mm
	15	1.00	8.0	30%	4.5	26.5	
	20	1.10	11.5	30%	6.0	35.3	
	25	1.10	11.5	30%	7.5	44.1	
	30	1.20	16.8	30%	9.0	53.0	
	35	1.20	16.8	30%	10.5	61.8	
	40	1.20	16.8	30%	12.0	70.6	
	45	1.30	24.7	30%	13.5	79.4	
	50	1.30	24.7	30%	15.0	88.3	
	55	1.40	35.0	30%	16.5	97.1	
	60	1.40	35.0	30%	18.0	105.9	
	65	1.40	35.0	26%	17.0	100.0	
	70	1.40	35.0	27%	19.0	141.0	
10	10	1.00	5.4	30%	3.0	17.7	5.9 N/mm
	15	1.10	7.0	30%	4.5	26.5	
	20	1.20	9.6	30%	6.0	35.3	
	25	1.20	9.6	30%	7.5	44.1	
	30	1.30	13.9	30%	9.0	53.0	
	35	1.40	18.0	30%	10.5	61.8	
	40	1.40	18.0	30%	12.0	70.6	
	45	1.50	25.0	30%	13.5	79.4	
	50	1.50	25.0	30%	15.0	88.3	
	55	1.50	25.0	30%	16.5	97.1	
	60	1.50	25.0	30%	18.0	105.9	
	65	1.60	35.0	30%	19.5	114.7	
	70	1.60	35.0	30%	21.0	123.6	
	80	1.70	45.9	30%	24.0	141.2	

Unit : mm

D	L	d	Solid height	max. compression L x %	max. compression F max.	Load N/max	Modulus ±10%
12	10	1.20	6.9	30%	3.0	17.7	5.9 N/mm
	15	1.30	9.1	30%	4.5	26.5	
	20	1.30	9.1	30%	6.0	35.3	
	25	1.30	9.1	30%	7.5	44.1	
	30	1.40	11.9	30%	9.0	53.0	
	35	1.40	11.9	30%	10.5	61.8	
	40	1.50	15.4	30%	12.0	70.6	
	45	1.50	15.4	30%	13.5	79.4	
	50	1.60	20.4	30%	15.0	88.3	
	55	1.60	20.4	30%	16.5	97.1	
	60	1.70	26.8	30%	18.0	105.9	
	65	1.70	26.8	30%	19.5	114.7	
	70	1.80	35.1	30%	21.0	123.6	
	80	1.90	45.6	30%	24.0	141.0	
13	10	1.30	6.2	30%	3.0	29.4	9.8 N/mm
	15	1.50	9.3	30%	4.5	44.1	
	20	1.60	12.3	30%	6.0	58.8	
	25	1.60	12.3	30%	7.5	73.5	
	30	1.70	15.0	30%	9.0	88.3	
	35	1.70	15.0	30%	10.5	103.0	
	40	1.80	19.0	30%	12.0	117.7	
	45	1.90	25.0	30%	13.5	132.4	
	50	1.90	25.0	30%	15.0	147.1	
	55	2.00	30.0	30%	16.5	161.8	
	60	2.00	30.0	30%	18.0	176.5	
	65	2.10	39.0	30%	19.5	191.2	
	70	2.10	39.0	30%	21.0	205.9	
	80	2.10	39.0	30%	24.0	235.4	
14	15	1.60	10.4	30%	4.5	44.1	9.8 N/mm
	20	1.60	10.4	30%	6.0	58.8	
	25	1.60	10.4	30%	7.5	73.5	
	30	1.70	12.8	30%	9.0	88.3	
	35	1.70	12.8	30%	10.5	103.0	
	40	1.90	20.0	30%	12.0	117.7	
	45	1.90	20.0	30%	13.5	132.4	
	50	2.10	30.5	30%	15.0	147.1	
	55	2.10	30.5	30%	16.5	161.8	
	60	2.10	30.5	30%	18.0	176.5	
	65	2.20	37.4	30%	19.5	191.2	
	70	2.20	37.4	30%	21.0	205.9	
	80	2.30	47.2	30%	24.0	235.4	
16	15	1.70	10.2	30%	4.5	44.1	9.8 N/mm
	20	1.80	12.6	30%	6.0	58.8	
	25	1.90	14.5	30%	7.5	73.5	
	30	1.90	14.5	30%	9.0	88.3	
	35	2.00	18.0	30%	10.5	103.0	
	40	2.10	21.0	30%	12.0	117.7	
	45	2.20	26.0	30%	13.5	132.4	
	50	2.20	26.0	30%	15.0	147.1	
	55	2.20	26.0	30%	16.5	161.8	
	60	2.30	32.0	30%	18.0	176.5	
	65	2.30	32.0	30%	19.5	191.2	
	70	2.40	38.0	30%	21.0	205.9	
	80	2.50	47.5	30%	24.0	235.4	

※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.