

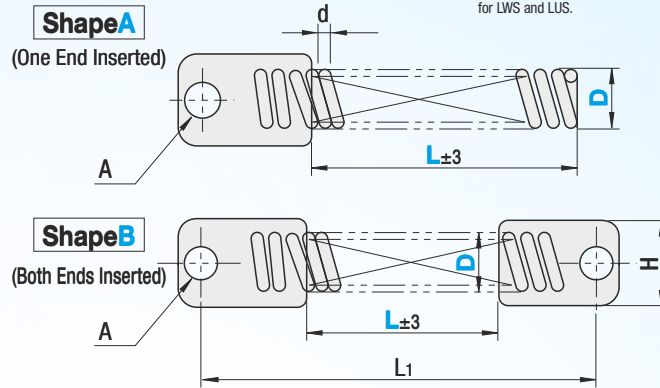
Hook Insertion for Springs

Tension Springs Inserted Hooks



Type	M Material		S Surface Treatment
	Springs	Hooks	Hooks
DLWSH	SWP~A	SPCC	Black Oxide
DLUSH	SUS304~WPB	SPCC	-

- SWP-A comes with SPCC hook, and SUS304-WPB comes with the SUS304 hook.
- Load Formula
Load = Spring Constant x Deflection mm + Initial Tension
- The springs for LWSH and LUSH are different from that for LWS and LUS.



Part Number Type	Shape	D	L	Wire Dia. dmm	A	H	Max. Deflection	L1	Initial Tension (N)		Standard Spring Constant (N/mm)	
									DLWSH	DLUSH	DLWSH	DLUSH
DLWSH DLUSH	A	5	200 500	0.6	5	10	70	L+36	1.01	1.01	0.045	0.040
		6		2.28					2.28	0.114	0.101	
		8		3.04					3.04	0.145	0.128	
		10		4.31	4.31	0.183		0.163				
		12		8.72	8.72	0.470		0.415				
	B	14		10.6	10.6	0.525	0.465					
		16		12.6	12.6	0.593	0.525					
		18		18.7	18.7	0.850	0.753					
		1.2		6	15	60	L+38	4.31	4.31	0.183	0.163	
		1.6						8.72	8.72	0.470	0.415	
1.8	7	18	L+45	10.6	10.6		0.525	0.465				
2.0				12.6	12.6		0.593	0.525				
2.3	9	25	L+51	18.7	18.7		0.850	0.753				

Shape A	Shape B
D	D
5	5
6	6
8	8
10	10
12	12
14	14
16	16
18	18

- Standard Spring Constant
Standard spring constant is the value when the L Dimension is 200 on shape B.
For other dimensions, use the formula below for calculation.

$$\text{Spring Constant (N/mm)} = \frac{200 (\text{Reference L Dimension})}{\text{Configurable L Dimension}} \times \text{Standard Spring Constant}$$

Ex.) LWSHB-8-400

$$0.0725(\text{N/mm}) = \frac{200}{400} \times 0.145$$

$$\text{kgf} = \text{N} \times 0.101972$$

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