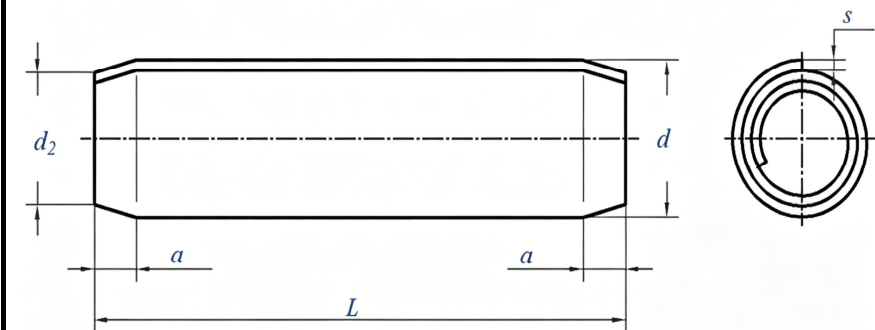


DIN EN ISO 8751-2007
弹性圆柱销 卷制 轻型
Spring-type straight pins-Coiled, light duty

Amendant record:
DIN EN 28751:1992-10
DIN EN 8751:1998-03

Table 2 — Requirements and reference International Standards

	steel	Austenitic stainless steel	Martensitic stainless steel
	St (Selected by the manufacturer)	A	C
Chemical composition limits (check analysis)%			
Material ②	All pin diameters	Alternative for pin diameters $d_1 > 12\text{mm}$	C ≥ 0.15 Mn ≤ 1.00 Si ≤ 1.00 Cr: 11.5~14 Ni ≤ 1.00 P ≤ 0.04 S ≤ 0.03 Hardened and tempered to a Vickers hardness of: 460-560HV30
	C ≥ 0.64 Mn ≥ 0.6 Si ≥ 1.50 Cr: ③ P ≤ 0.04 S ≤ 0.05	C ≥ 0.38 Mn ≥ 0.70 Si ≥ 0.2 Cr ≥ 0.80 V ≥ 0.15 P ≤ 0.035 S ≤ 0.04	C ≤ 0.15 Mn ≤ 2.00 Si ≤ 1.50 Cr: 16~20 Ni: 6~12 P ≤ 0.045 S ≤ 0.03 Mo ≤ 0.8 Cold worked
	Hardened and tempered to a Vickers hardness of: 420 HV to 545 HV		



Both ends need to be chamfered by pressing.

Table 1 — Dimensions

nominal diameter d		φ1.5	φ2	φ2.5	φ3	φ3.5	φ4	φ5	φ6	φ8
d	Max (before mounting)	1.75	2.28	2.82	3.35	3.87	4.45	5.5	6.55	8.65
	min (before mounting)	1.62	2.13	2.65	3.15	3.67	4.2	5.2	6.25	8.3
d_2	Max (before mounting)	1.4	1.9	2.4	2.9	3.4	3.9	4.85	5.85	7.8
a	≈	0.5	0.7	0.7	0.9	1	1.1	1.3	1.5	2
s		0.08	0.11	0.14	0.17	0.19	0.22	0.28	0.33	0.45
Minum shear strength, double, kN ①	1)	0.8	1.5	2.3	3.3	4.5	5.7	9	13	23
	2)	0.65	1	1.8	2.5	3.4	4.4	7	10	18

- ①, 1) Applies to steel and martensitic corrosion resistant steel products.
2) Applies to austenitic stainless steel products.
● length tolerance $L \leq 10 = \pm 0.25$ $10 < L \leq 50 = \pm 0.5$ $50 < L \leq 200 = \pm 0.75$

Surface condition	Plain, i.e. pins to be supplied in natural finish, treated with a protective lubricant, unless otherwise specified by agreement between customer and supplier. If pins are surface coated appropriate plating or coating processes should be employed to avoid hydrogen embrittlement. When pins are electroplated or phosphate-coated, they shall be suitably treated immediately after plating or coating to obviate detrimental hydrogen embrittlement although freedom from hydrogen embrittlement is not absolutely guaranteed (see ISO 4042). All tolerances shall apply prior to the application of a plating or coating.	Plain, i.e. pins to be supplied in natural finish.
Application	The diameter of the hole into which the spring pin is to be inserted shall be equal to the nominal diameter d , of the mating pin and to tolerance class H12.	
Shear strength test	Test shall be in accordance with ISO 8749	

- ② Other materials as agreed between customer and supplier;
③ Use of Cr is optional.