



Coiled spring pins consist of 2 1/4 coils of spring steel or stainless steel and have swaged chamfers at each end. They are designed for plain drilled holes, but countersinking makes insertion easier.

Advantages of coiled pins:

- The coiled design improves shock absorption as the load is spread over more than one coil.
- Assembly is easier as the insertion force needed is lower.
- The pins cannot interlock when in bulk, which is a benefit when they are to be barrel plated or installed using bowl-fed equipment.

MATERIALS

SPRING STEEL

CS 67 and DIN 17222, hardened and tempered to HV 420-520

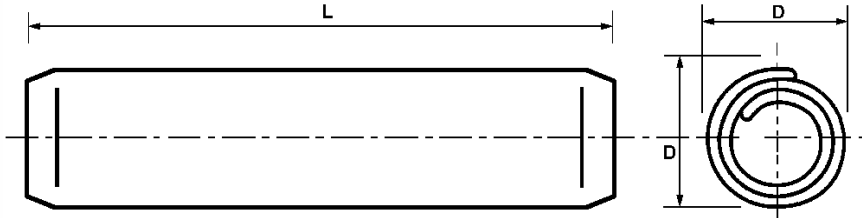
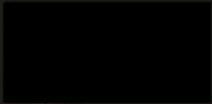
STAINLESS STEEL A2

STANDARDS

ISO 8748	Heavy duty
BS 7057	Heavy duty
DIN 7344	Heavy duty
ISO 8750	Standard duty
BS 7058	Standard duty
DIN 7343	Standard duty
BS 7059	Light duty
ISO 8751	Light duty
Superelastic	Light duty with 1 1/2 coils

FINISHES

Coiled pins are normally supplied with a plain oiled finish. Steel pins may be given a protective finish such as zinc, phosphate, etc but for electrolytically applied finishes it is essential to de-embrittle the pins immediately after plating. Since the de-embrittlement process is not completely reliable, non-electrolytic finishes or stainless should be used for safety-critical applications. Where pins are to be used in plastic assemblies, it is recommended that they be de-oiled before use to avoid embrittlement of the plastic.



Nominal Diameter	0.8	1	1.2	1.5	2	2.5	3	3.5	4	5	6	8	10	12	14	16	
Available Materials	Spring Steel CS70 In All Diameters																
	Stainless Steel A2																
Expanded Diameter 'D'																	
Standard Duty Max	0.91	1.15	1.35	1.73	2.25	2.78	3.30	3.84	4.40	5.50	6.50	8.63	10.80	12.85	14.45	16.45	
ISO 8750 Min	0.85	1.05	1.25	1.62	2.13	2.65	3.15	3.67	4.20	5.25	6.25	8.30	10.35	12.40	14.95	17.00	
Heavy Duty Max				1.71	2.21	2.73	3.25	3.79	4.3	5.35	6.40	8.55					
ISO 8748 Min				1.61	2.11	2.62	3.12	3.64	4.15	5.15	6.18	8.25					
Recommended Hole Size Max	0.84	1.04	1.24	1.60	2.10	2.60	3.10	3.62	4.12	5.12	6.13	8.17	10.20	12.22	14.25	16.25	
Min	0.80	1.00	1.20	1.50	1.99	2.49	2.99	3.48	3.98	4.95	5.95	7.93	9.93	11.90	13.85	15.85	
Minimum Double Shear Strengths tested to ISO 8749, kN (see also Page 37)																	
Carbon Steel																	
Standard Duty	0.4	0.6	0.9	1.45	2.5	3.9	5.5	7.5	9.6	15	22	39	62	89	120	160	
Heavy Duty				1.9	3.5	5.5	7.6	10	13.5	20	30	53					
A2 Stainless Steel																	
Standard Duty				1.05	1.9	2.9	4.2		7.6	11.5	16.8	30					
Lengths in mm (ISO 8750) Steel																	
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120																	
140																	
160																	
180																	
Length Tolerances	1 – 10 mm long ± 0.25					12 – 50 mm long ± 0.50					Over 50 mm long ± 0.75						

*Also stocked in inch sizes

