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INTERNATIONAL STANDARD

**ISO
8748**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Spring-type straight pins — Coiled, heavy duty

Goupilles élastiques spiralées — Série épaisse

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Reference number
ISO 8748:1987 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8748 was prepared by Technical Committee ISO/TC 2, *Fasteners*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Spring-type straight pins — Coiled, heavy duty

1 Scope and field of application

This International Standard specifies the characteristics of heavy duty coiled spring-type straight pins with metric dimensions and nominal diameters, d_1 , from 1,5 to 20 mm inclusive.

NOTE — Spring-type straight pins, coiled, standard duty and spring-type straight pins, coiled, light duty, are the subjects of ISO 8750 and ISO 8751 respectively.

2 References

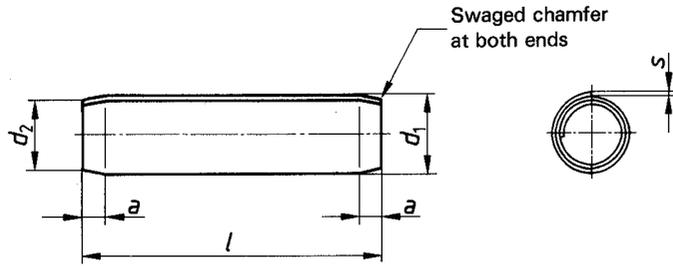
ISO 3269, *Fasteners — Acceptance inspection.*

ISO 8749, *Pins and grooved pins — Shear test.*

ISO 8750, *Spring-type straight pins — Coiled, standard duty.*

ISO 8751, *Spring-type straight pins — Coiled, light duty.*

3 Dimensions



Dimensions in millimetres

		nom.	1,5	2	2,5	3	3,5	4	5	6	8	10	12	14	16	20
d_1	before mounting	min.	1,61	2,11	2,62	3,12	3,64	4,15	5,15	6,18	8,25	10,3	12,35	14,4	16,4	20,4
		max.	1,71	2,21	2,73	3,25	3,79	4,3	5,35	6,4	8,55	10,65	12,75	14,85	16,9	21
d_2	before mounting	max.	1,4	1,9	2,4	2,9	3,4	3,9	4,85	5,85	7,8	9,75	11,7	13,6	15,6	19,6
a		≈	0,5	0,7	0,7	0,9	1	1,1	1,3	1,5	2	2,5	3	3,5	4	4,5
s			0,17	0,22	0,28	0,33	0,39	0,45	0,56	0,67	0,9	1,1	1,3	1,6	1,8	2,2
Minimum shear strength, double kN			1,9	3,5	5,5	7,6	10	13,5	20	30	53	84	120	165	210	340
		<i>1)</i>														
	nom.	min.	max.													
	4	3,75	4,25													
	5	4,75	5,25													
	6	5,75	6,25													
	8	7,75	8,25													
	10	9,75	10,25													
	12	11,5	12,5													
	14	13,5	14,5													
	16	15,5	16,5													
	18	17,5	18,5													
	20	19,5	20,5													
	22	21,5	22,5													
	24	23,5	24,5													
	26	25,5	26,5													
	28	27,5	28,5													
	30	29,5	30,5													
	32	31,5	32,5													
	35	34,5	35,5													
	40	39,5	40,5													
	45	44,5	45,5													
	50	49,5	50,5													
	55	54,25	55,75													
	60	59,25	60,75													
	65	64,25	65,75													
	70	69,25	70,75													
	75	74,25	75,75													
	80	79,25	80,75													
	85	84,25	85,75													
	90	89,25	90,75													
	95	94,25	95,75													
	100	99,25	100,75													
	120	119,25	120,75													
	140	139,25	140,75													
	160	159,25	160,75													
	180	179,25	180,75													
	200	199,25	200,75													

1) For nominal lengths above 200 mm, steps of 20 mm.