

# INTERNATIONAL STANDARD

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## Spring-type straight pins — Coiled, light duty

*Goupilles élastiques spiralées — Série mince*

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Reference number  
ISO 8751:1987 (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 8751 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, light duty

## 1 Scope and field of application

This International Standard specifies the characteristics of light duty coiled spring-type straight pins with metric dimensions and nominal diameters,  $d_1$ , from 1,5 to 8 mm inclusive.

NOTE — Spring-type straight pins, coiled, standard duty, and spring-type straight pins, coiled, heavy duty are the subjects of ISO 8748 and ISO 8750 respectively.

## 2 References

ISO 3269, *Fasteners — Acceptance inspection.*

ISO 8748, *Spring-type straight pins — Coiled, heavy duty.*

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

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



#### 4 Application

The bore diameter of the spring pin hole shall be equal to the nominal diameter,  $d_1$ , of the mating pin, and to tolerance H12.

#### 5 Specifications and reference International Standards

<b>Material</b>	<p>St = steel meeting the following analyses [% (m/m)] :</p> <p>C &gt; 0,64  Mn &gt; 0,60  Si &gt; 0,15  Cr &gt; 0,50 (opt.)  P &lt; 0,04  S &lt; 0,05</p> <p>Hardened and tempered to a Vickers hardness 420 to 520 HV.  Other materials as agreed between customer and supplier.</p>
<b>Surface finish</b>	<p>Plain, i.e. pins to be supplied in natural finish, treated with a protective lubricant, unless otherwise specified by agreement between customer and supplier.</p> <p>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 guaranteed.</p> <p>Preferred coatings are chemical black oxide or non-electrolytic zinc plating.  Other coatings as agreed between customer and supplier.  All tolerances shall apply prior to the application of a plating or coating.</p>
<b>Workmanship</b>	<p>Parts shall be uniform in quality and free of irregularities or detrimental defects.  No burrs shall appear on any part of the pin.</p>
<b>Shear strength test</b>	<p>The test shall be in accordance with ISO 8749.</p>
<b>Acceptability</b>	<p>The acceptance procedure is covered in ISO 3269.</p>

#### 6 Designation

Example for the designation of a steel spring-type straight pin, coiled, light duty, with nominal diameter  $d_1 = 6$  mm and nominal length  $l = 30$  mm :

Spring pin ISO 8751 - 6 × 30 - St

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