

# SLOTTED SPRING PINS



A single coil of spring steel with an open slot for easy assembly

## Spring Tension Slotted Pins

Slotted spring pins consist of a single coil of spring steel or stainless steel with an open slot sufficiently wide to enable the pin to reduce in diameter as it is driven into a hole of appropriate size.

The ends of the pin have a bevelled chamfer. They are designed for plain drilled holes but a countersink makes assembly easier, especially for the ISO 8752 type.

Slotted pins are normally supplied in the heavy duty form to ISO 8752, but a light duty version can be supplied to ISO 13337.



## Increasing Shear Strength Of Spring Pins

It is possible to increase the shear strength of slotted pins by inserting a small diameter pin inside a large one. This should always be done by inserting the larger pin first, then inserting the smaller one, taking care that the slot is between 90° and 180° away from the slot in the larger pin.

Suitable combinations for pins to ISO 8752 standard are:

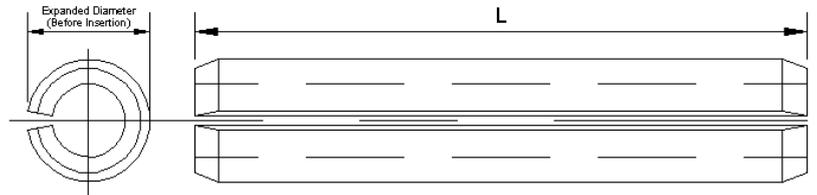
Outer Pin	Inner Pin
3.5mm	2.0mm
5.00mm	3.00mm
6.0mm	3.5mm
8.0mm	5.0mm
10.0mm	6.0mm
12.0mm	7.0mm

## Standards

- ◆ ISO 8752—Heavy Duty (stocked range)
- ◆ ISO 13337—Light Duty
- ◆ DIN 1481—Equivalent to ISO 8752, but with plus only length tolerances
- ◆ DIN 7346—Light Duty
- ◆ BS 7060—Equivalent to ISO 8752

## Materials

- ◆ Spring Steel
- ◆ Austenitic Stainless Steel



Nominal Diameter, ISO 8752, mm	1.5	2	2.5	3	3.5	4	5	6	8	10	12	
Expanded Diameter	Min	1.7	2.3	2.8	3.3	3.8	4.4	5.4	6.4	8.5	10.5	12.5
	Max	1.8	2.4	2.9	3.5	4.0	4.6	5.6	6.7	8.8	10.8	12.8
Recommended Hole Size (H12)	Min	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	8.0	10.0	12.0
	Max	1.6	2.1	2.6	3.1	3.62	4.12	5.12	6.12	8.15	10.15	12.18
Material Thickness	0.3	0.4	0.5	0.6	0.7	0.8	1	1.2	1.5	2	2.5	

Minimum Double Shear Strengths—Tested to ISO 8749, kN

Spring Steel	1.58	2.82	4.38	6.32	9.06	11.24	17.54	26.04	42.76	70.16	104.1
Austenitic Stainless Steel	0.98	1.81	2.84	4.07	5.80	7.25	10.75	16.17	26.46	42.14	

Lengths—from 4mm up to 180, depending on diameter. Ask for more information

Standard diameters are shown above, but we are also able to quote, as specials in other diameters; 1, 4.5, 7, 11, 13, 15, 18, 22, 24, 25, 26, 28, 30, 32, 34, 36, 38, 40mm

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