


$\alpha$  degree Unstressed leg position  
 $\alpha 1$  degree Prestressed rotational angle  
 $\alpha 2$  degree Loaded rotational angle  
 $\alpha h$  degree Excursion  
 $\alpha n$  degree Maximum rotational angle  
 $d$  mm Wire diameter  
 $Ddmin$  mm Min. possible mandrel diameter  
 $Ddmax$  mm Max. possible mandrel diameter  
 $De$  mm Outer coil diameter  
 $Di$  mm Inner coil diameter  
 $F1$  N Prestressed spring force  
 $F2$  N Loaded spring force  
 $Lk0$  mm Length of spring body when relaxed  
 $LS$  mm Length of leg  
 $M1$  Nmm Prestressed torque  
 $M2$  Nmm Loaded torque  
 $Mn$  Nmm Maximum torque  
 $n$  pc. Active coils  
 $RH$  mm Distance power flow point from centre  
 $St$  mm Distance between coils (pitch)  
 Weight g Weight of one spring in grammes

Spring test acc. to DIN ISO 2859/1 test level II

**1 Coiling direction**  
  left   right

**2 Form of legs**  
 tangential, straight, no bends \*   
 \*We can also supply torsion springs with any form of leg for an extra charge.

**3 Fixing**  
 Recumbent leg  Lever leg

**4 Load**  
 in winding direction  
 against winding direction

**5 Excursion  $\alpha h$**   degr.

**6 Stress cyc. end.  $N$**

**7 Stress cycle frequ.  $n$**   /

**8 Application temp.**  °C

**9 Material**  
 EN 10270-3-1.4310

**10 Wire or rod surface**  
 drawn  rolled  metal-cut

**11 Surface treatment**

**12 Tolerances to DIN 2194**

Grade	Di	Lk0	LSH,LSR	$\alpha, \alpha 1, \alpha 2$	M1, M2	Wire diameter d to DIN 2076
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**13 Production compensation through**

A spring torque and the associated swing angle	$\alpha$	<input checked="" type="checkbox"/>
A spring torque and the associated swing angle and $\alpha 0$	$n, d$	<input type="checkbox"/>
	$n, Di$	<input type="checkbox"/>
Two spring resistances and the associated swing angle	$\alpha, n, d$	<input type="checkbox"/>
	$\alpha, n, Di$	<input type="checkbox"/>

**Prices**

Grupa ilociowa	Cena jednostkowa [EUR]
1	
2	5,1600 €
3	3,6400 €
7	3,4700 €
17	2,4200 €
37	1,1500 €
75	0,8500 €
125	0,6800 €
175	0,4859 €
250	0,4196 €
350	0,3695 €
450	0,3536 €
	0,3284 €

**Remarks**  
 Kraj pochodzenia: DE | Numer taryfy celnej: 73202089