

D	mm	Wire diameter	L1	mm	Prestressed spring length
D	mm	Mean coil diameter	L2	mm	Loaded spring length
De	mm	Outer coil diameter	Ln	mm	Maximum spring length
Dh	mm	Minimum diameter of bush	m	mm	Loop opening width
F0	N	Initial tension	n	pc.	Number of active coils
F1	N	Prestressed spring force	nt	pc.	Total number of coils
F2	N	Loaded spring force	s1	mm	Prestressed spring deflection
Fn	N	Maximum spring force	s2	mm	Loaded spring deflection
Lh	mm	Loop height	sn	mm	Maximum spring deflection
Lk	mm	Length of unstressed spring body	sh	mm	Excursion
L0	mm	Unstressed spring length	R	N/mm	Spring rate

Symbol	Unit	Description
Fh	N	Maximum spring force
Lh	mm	Loop height
Lk	mm	Length of unstressed spring body
L0	mm	Unstressed spring length
s2	mm	Loaded spring deflection
sn	mm	Maximum spring deflection
sh	mm	Excursion
R	N/mm	Spring rate

The technical drawing shows a spring with the following dimensions and values:

- Dimensions:**
 - L_h : Loop height (2,560)
 - L_k : Length of unstressed spring body (24,88)
 - L_0 : Unstressed spring length (30,00 $\pm$ 0,80)
 - L_1 : [Empty box]
 - L_2 : [Empty box]
 - L_n : [Empty box]
 - D_h : [Empty box] (4,90)
 - d : Wire diameter (0,50)
 - D : Mean coil diameter (4,00 $\pm$ 0,15)
 - s_1 : [Empty box]
 - s_2 : [Empty box]
 - s_n : Maximum spring deflection (39,55)
 - sh : Excursion (13,05)
- Force-Displacement Diagram:**
 - Y-axis: Force (F)
 - X-axis: Deflection (s)
 - Points: F_0 , F_1 , F_2 , F_n
 - Deflections: s_1 , s_2 , s_n
 - Spring rate R is indicated by the slope of the line.

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

1 Coiling direction ☐ left ☒ right	4 Stress cyc. end. N	10 Tolerances to DIN 2097 <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th>Grade</th> <th>De, Di, D</th> <th>L0</th> <th>F0-Fn</th> <th>Loops</th> <th>Wire diameter d to DIN 2076</th> </tr> <tr> <td>1</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td rowspan="3">☒</td> </tr> <tr> <td>2</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> <tr> <td>3</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>	Grade	De, Di, D	L0	F0-Fn	Loops	Wire diameter d to DIN 2076	1	☐	☐	☐	☐	☒	2	☒	☒	☒	☒	3	☐	☐	☐	☐
Grade	De, Di, D	L0	F0-Fn	Loops	Wire diameter d to DIN 2076																			
1	☐	☐	☐	☐	☒																			
2	☒	☒	☒	☒																				
3	☐	☐	☐	☐																				
2 Loop shape and loop position Loop shape 1/1 German loop	5 Stress cycle frequ. n /	11 Production compensation through <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">A spring resistance, associated length of tensed spring and L0</td> <td style="width: 20%;">F0, D ☒</td> </tr> <tr> <td rowspan="2">A spring resistance, associated length of tensed spring and F0</td> <td>L0, n, d ☐</td> </tr> <tr> <td>L0, D ☐</td> </tr> <tr> <td rowspan="2">Two spring resistances and associated length of tensed spring</td> <td>L0, n, d ☐</td> </tr> <tr> <td>F0, D ☐</td> </tr> </table>	A spring resistance, associated length of tensed spring and L0	F0, D ☒	A spring resistance, associated length of tensed spring and F0	L0, n, d ☐	L0, D ☐	Two spring resistances and associated length of tensed spring	L0, n, d ☐	F0, D ☐														
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	F0, D ☐																							
Loops offset to one another by 270,0 ☒ 39,0 degrees (in the dir. of the right helix)	6 Application temp. °C	Prices Grupa ilociowa Cena jednostkowa																						
3 Excursion sh mm	7 Material EN 10270-1																							
8 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut		9 Surface treatment 																						

Kraj pochodzenia: DE | Numer taryfy celnej: 73202085

Grade	De,Di,D	L0	F0-Fn	Loops	Wire diameter d to DIN 2076
1	☐	☐	☐	☐	
2	☒	☒	☒	☒	
3	☐	☐	☐	☐	

A spring resistance, associated length of tensed spring and L0	F0, D	☒
A spring resistance, associated length of tensed spring and F0	L0, n, d	☐
	L0, D	☐
Two spring resistances and associated length of tensed spring	L0, n, d	☐
	F0, D	☐

Prices

Grupa ilociowa	Cena jednostkowa
1	[EUR]
2	5,9800 €
3	3,7700 €
7	2,1900 €
17	1,8300 €
37	0,8300 €
75	0,5500 €
125	0,3300 €
175	0,3142 €
250	0,3080 €
350	0,3019 €
450	0,2956 €
	0,2885 €