

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	Value
Fh	N	Maximum spring force	15,22
Lh	mm	Loop height	1,15
Lk	mm	Length of unstressed spring body	18,03
L0	mm	Unstressed spring length	28,00 ± 0,90
sn	mm	Maximum spring deflection	52,10
sh	mm	Excursion	
R	N/mm	Spring rate	

The technical drawing shows a spring with a hook and a coiled body. Key dimensions include:

- Lh**: Loop height (1,15 mm)
- Lk**: Length of unstressed spring body (18,03 mm)
- L0**: Unstressed spring length (28,00 ± 0,90 mm)
- sn**: Maximum spring deflection (52,10 mm)
- sh**: Excursion
- Fh**: Maximum spring force (15,22 N)
- F0, F1, F2, Fn**: Force values at different deflection points
- s1, s2**: Deflection values
- Dh**: Hook diameter (8,90 mm)
- D**: Coil diameter
- d**: Wire diameter (0,70 mm)
- De**: End distance (7,50 ± 0,30 mm)
- m**: Fillet radius

 A force-displacement diagram is shown on the right, plotting force (F) against deflection (s). The curve starts at the origin and rises linearly, with points (F0, s0), (F1, s1), (F2, s2), and (Fn, sn) marked.

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	☐	☐	☐	☐
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1	☐		☐	☐	☐	☒																		
2	☒	☒	☒	☒																				
3	☐	☐	☐	☐																				
2 Loop shape and loop position Loop shape 1/1 German loop	5 Stress cycle frequ. n /																							
Loops offset to one another by 270,0 ☒ 32,0 degrees (in the dir. of the right helix)	6 Application temp. °C																							
7 Material 1.4310		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 ☐																							
8 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut																								
9 Surface treatment 																								
3 Excursion sh mm																								
Remarks Paese d'origine: DE Numero della tariffa doganale: 73202085																								