

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	27,55
Lh	mm	Loop height	5,460
Lk	mm	Length of unstressed spring body	37,57
L0	mm	Unstressed spring length	48,50 ± 1,30
sn	mm	Loaded spring deflection	78,94
sh	mm	Excursion	
R	N/mm	Spring rate	2,22

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

- Hook dimensions:** Dh = 10,20; Lh = 5,460; Lk = 37,57; d = 0,90; De = 8,50 ± 0,30.
- Body dimensions:** L0 = 48,50 ± 1,30; L1, L2, and Ln are also indicated.
- Graph:** A load-deflection graph showing force (F) on the y-axis and deflection (s) on the x-axis. The spring rate R = 2,22 N/mm is indicated. The graph shows the spring's behavior under load, with F0, F1, F2, and Fn corresponding to s0, s1, s2, and sn respectively.

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;"> <tr> <th>Grade</th> <th>De, Di, D</th> <th>L0</th> <th>F0-Fn</th> <th>Loops</th> <th rowspan="4">Wire diameter d to DIN 2076</th> </tr> <tr> <td>1</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</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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3	☐	☐	☐	☐																								
2 Loop shape and loop position Loop shape 1/1 German loop Loops offset to one another by 270,0 + 38,0 degrees (in the dir. of the right helix)	6 Application temp. °C	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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3 Excursion sh mm	7 Material 1.4310																											
8 Wire or rod surface ☒ drawn ☐ rolled ☐ metal-cut		Prices <table style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Quantity scale</th> <th style="text-align: left;">Single price [EUR]</th> </tr> </thead> <tbody> <tr><td>1</td><td>6,4000 €</td></tr> <tr><td>2</td><td>4,0300 €</td></tr> <tr><td>3</td><td>2,8200 €</td></tr> <tr><td>7</td><td>2,3500 €</td></tr> <tr><td>17</td><td>1,1600 €</td></tr> <tr><td>37</td><td>0,8500 €</td></tr> <tr><td>75</td><td>0,6900 €</td></tr> <tr><td>125</td><td>0,6356 €</td></tr> <tr><td>175</td><td>0,6220 €</td></tr> <tr><td>250</td><td>0,6172 €</td></tr> <tr><td>350</td><td>0,5899 €</td></tr> <tr><td>450</td><td>0,5461 €</td></tr> </tbody> </table>	Quantity scale	Single price [EUR]	1	6,4000 €	2	4,0300 €	3	2,8200 €	7	2,3500 €	17	1,1600 €	37	0,8500 €	75	0,6900 €	125	0,6356 €	175	0,6220 €	250	0,6172 €	350	0,5899 €	450	0,5461 €
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Remarks Country of origin: DE Customs tariff number: 73202085																												