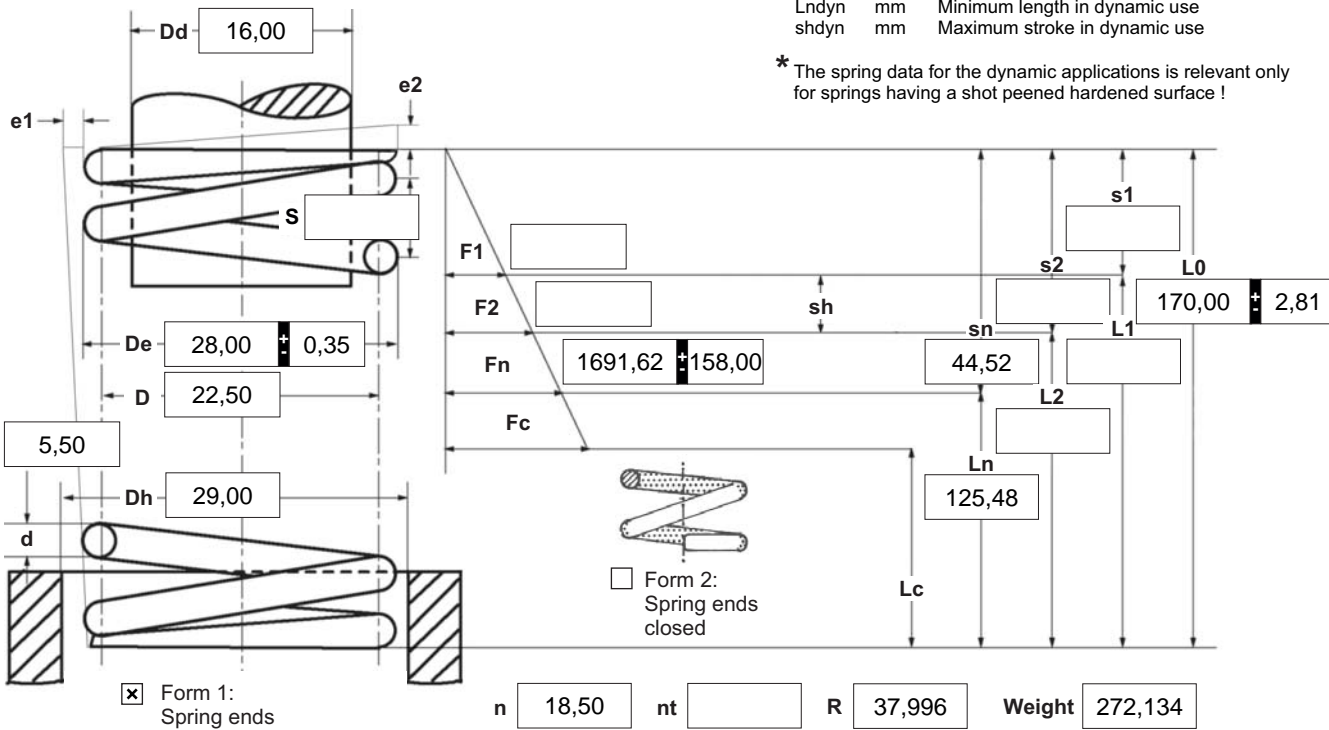


d mm	Wire diameter
D mm	Mean coil diameter
Dd mm	Diameter of mandrel
De mm	Outer coil diameter
Dh mm	Diameter of bush
e1 mm	Perm.dev. perpendicular line
e2 mm	Perm.dev. parallel line
F1 N	Prestressed spring force
F2 N	Loaded spring force

Fn N	Maximum force in static use
Fc N	Theoretic maximum force at Lc
L0 mm	Length of unstressed spring
L1 mm	Prestressed spring length
L2 mm	Loaded spring length
Lk mm	Buckling length
Ln mm	Minimum length in static use
Lc mm	Block length
n pc.	Active coils

nt	pc.	Total coils
R	N/mm	Spring rate
S	mm	Pitch (distance between coils)
s1	mm	Prestressed spring deflection
s2	mm	Loaded spring deflection
sh	mm	Maximum stroke in static use
sn	mm	Maximum spring deflection in static use
Weight	g	Weight of one spring in grammes
Fndyn	N	Maximum force in dynamic force
Fndtol	N	(+/-) tolerance of maximum dynamic force
Lndyn	mm	Minimum length in dynamic use
shdyn	mm	Maximum stroke in dynamic use



\* The spring data for the dynamic applications is relevant only for springs having a shot peened hardened surface !

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

**1 Coiling direction**

left  right

**2 Dynamic load \***

Fndyn	1449,93
Fndtol	149,00
Lndyn	131,84
shdyn	7,61

**3 Excursion sh**

**4 Stress cyc. end. N**

**5 Stress cycle frequ. n**

**6 Application temp.**

Remarks

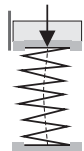
Kraj pochodzenia: DE | Numer taryfy celnej: 73202081

**7 Guidance and seat to DIN EN 13906-1**

mandrel  bush

Buckling length **Lk** at

v=0,5 / Bild 5  mm



**8 Material**

EN 10270-3-1.4310

**9 Wire or rod surface**

drawn  rolled  metal-cut

**10 Springs deburred**  inside  outside

**11 Surface treatment**  shot peened

**12 Tolerances to DIN EN 15800**

Grade	De,Di,D	L0	F1,F2	e1,e2	Wire diameter d to DIN 2076
1	<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"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**13 Prouction compensation through**

A spring resistance and associated length of tensed spring	L0	<input type="checkbox"/>
A spring resistance, associated length of tensed spring and L0	n, d	<input checked="" type="checkbox"/>
	n, De, Di	<input type="checkbox"/>
Two spring resistances and associated lengths of tensed spring	L0, n, d	<input type="checkbox"/>
	L0,n,De,Di	<input type="checkbox"/>

**14 Setting springs**

All springs which show setting tendency because of their size are pre-set within the production process.

**Prices**

Grupa ilociowa	Cena jednostkowa [EUR]
1	
2	15,4300 €
3	12,3000 €
7	8,1000 €
17	6,2800 €
37	4,6900 €
75	4,0400 €
125	3,9700 €
175	3,9606 €
250	3,9533 €
350	3,8771 €
	3,7845 €