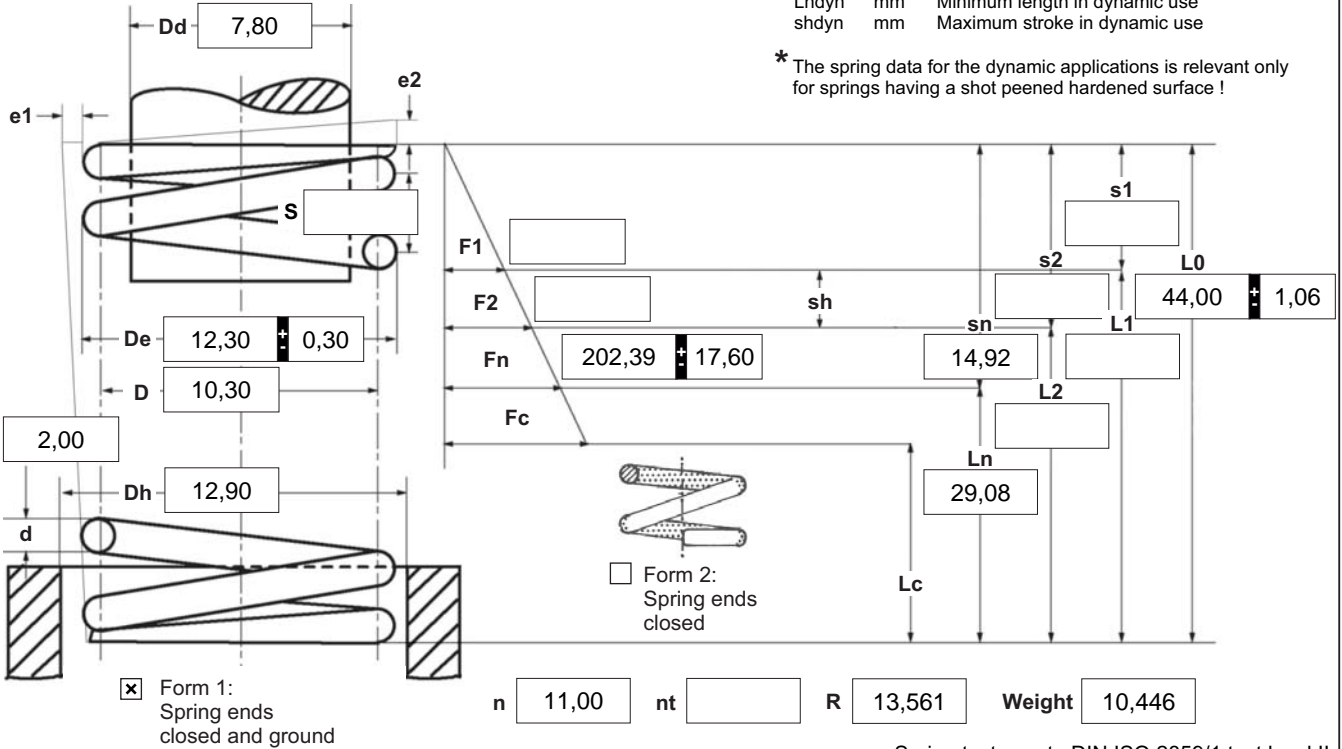


d mm	Wire diameter	Fn N	Maximum force in static use
D mm	Mean coil diameter	Fc N	Theoretic maximum force at Lc
Dd mm	Diameter of mandrel	L0 mm	Length of unstressed spring
De mm	Outer coil diameter	L1 mm	Prestressed spring length
Dh mm	Diameter of bush	L2 mm	Loaded spring length
e1 mm	Perm.dev. perpendicular line	Lk mm	Buckling length
e2 mm	Perm.dev. parallel line	Ln mm	Minimum length in static use
F1 N	Prestressed spring force	Lc mm	Block length
F2 N	Loaded spring force	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**



**2 Dynamic load \***

Fndyn	181,58
Fndtol	17,29
Lndyn	30,61
shdyn	7,99

**3 Excursion sh**  mm

**4 Stress cyc. end.**  N

**5 Stress cycle frequ.**  /

**6 Application temp.**  °C

Remarks

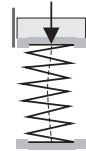
País de origen: DE | Número de arancel aduanero: 73202081

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

mandrel  bush

Buckling length **Lk** at

v=0,5 / Bild 5  mm



**8 Material**

**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 type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**13 Production 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**

Cantidad progresiva	Precio unidad [EUR]
1	5,1100 €
2	3,6000 €
3	3,4300 €
7	2,2200 €
17	1,1200 €
37	0,7400 €
75	0,5500 €
125	0,4570 €
175	0,4069 €
250	0,3567 €
350	0,3095 €
450	0,2652 €