

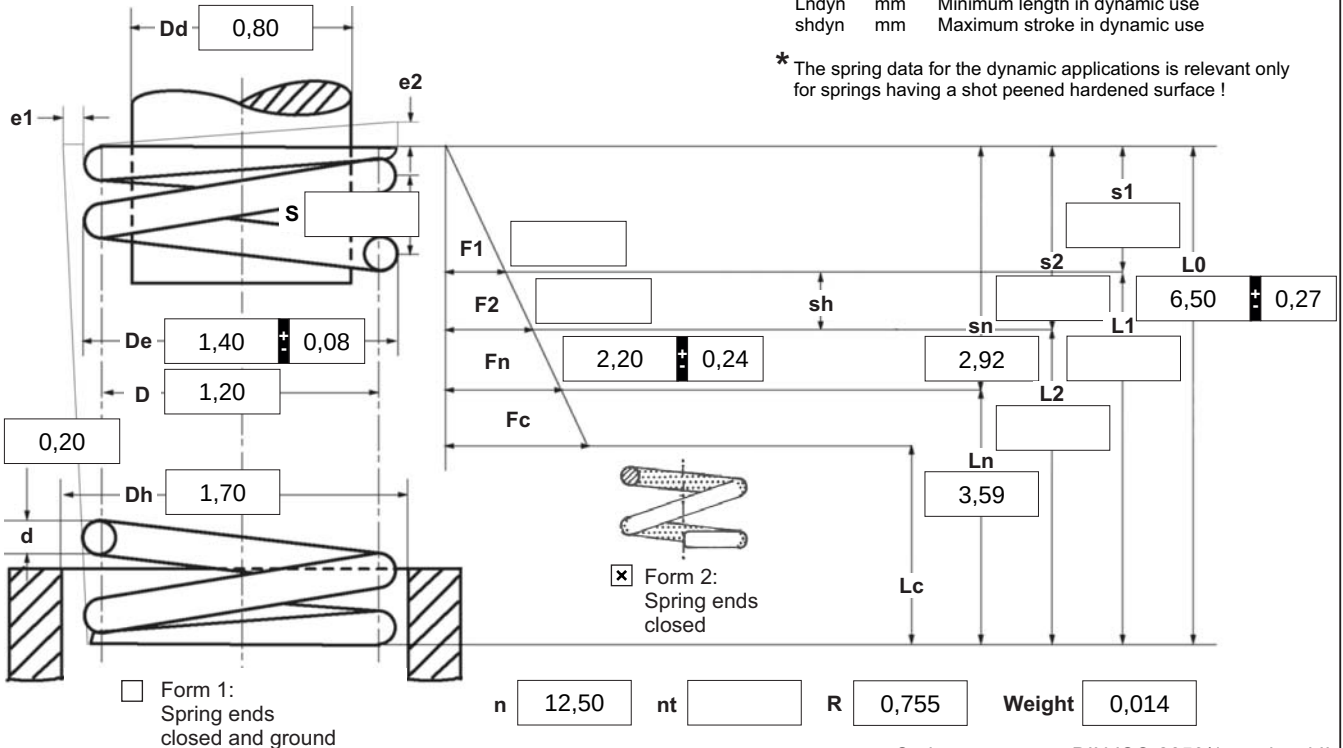
d mm Wire diameter
D mm Mean coil diameter
Dd mm Diameter of mandrel
De mm Outer coil diameter
Dh mm Diameter of bush
e1 mm Perm.dev. perpendicular line
e2 mm Perm.dev. parallel line
F1 N Prestressed spring force
F2 N Loaded spring force

F_n N Maximum force in static use
F_c N Theoretic maximum force at L_c
L0 mm Length of unstressed spring
L1 mm Prestressed spring length
L2 mm Loaded spring length
L_k mm Buckling length
L_n mm Minimum length in static use
L_c 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

F_{ndyn} N Maximum force in dynamic force
F_{ndtol} N (+/-) tolerance of maximum dynamic force
L_{ndyn} mm Minimum length in dynamic use
sh_{dyn} 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 *

F_{ndyn} 2,05

F_{ndtol} 0,24

L_{ndyn} 3,78

sh_{dyn} 0,91

3 Excursion sh

mm

4 Stress cyc. end. N

/

5 Stress cycle frequ. n

°C

6 Application temp.

Remarks

Paese d'origine: DE | Numero della tariffa doganale: 73202081

7 Guidance and seat to DIN EN 13906-1

□ mandrel □ bush

Buckling length L_k at

v=0,5 / Bild 5 2,77 mm

8 Material

EN 10270-1

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	□	□	□	□	□
2	☒	☒	☒	☒	☒
3	□	□	□	□	☒

13 Production compensation through

A spring resistance and associated length of tensed spring	L0	□
A spring resistance, associated length of tensed spring and L0	n, d	☒
	n, De, Di	□
Two spring resistances and associated lengths of tensed spring	L0, n, d	□
	L0, n, De, Di	□

14 Setting springs

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

Prices

Quantità progressive	Prezzo singolo [EUR]
1	4,8100 €
2	3,3900 €
3	3,2300 €
7	1,8100 €
17	0,7800 €
37	0,4700 €
75	0,2700 €
125	0,2226 €
175	0,1689 €
250	0,1503 €
350	0,1199 €
450	0,1011 €