

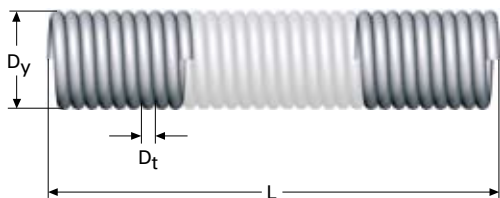
COIL LENGTHS

SF-TS, SF-GF, FF



EXTENSION SPRING COILS

SF-TS, Length 300 mm



Spring material, which can be cut into required length.

All dimensions are in mm

D_t = Wire diameter

D_y = Outer diameter

L = Length

F_o = Initial force in Newtons; the force required before the spring starts to extend

Material: EN 10270-1-SM

Stainless steel EN 10270-3-1.4310

Tolerances: SS 2384, see page 220 for more information.

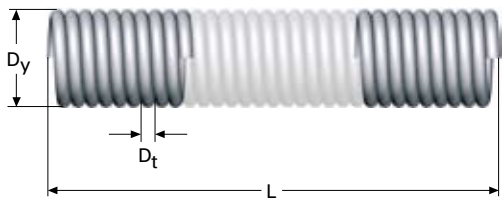
1 kp = 9.80665 Newtons, 1 Newton = 0.10197 kp

D_t	D_y	L	F_o	EN 10270-1-SM Cat. no.	Stainless steel EN 10270-3-1.4310 Cat. no.
0,2	1,5	300	0,3	7659	7671
0,2	2	300	0,2	7660	7672
0,2	2,5	300	0,1	7661	7673
0,2	3	300	0,1	7662	7674
0,25	2	300	0,3	7663	7675
0,25	2,5	300	0,3	7664	7676
0,25	3	300	0,2	7665	7677
0,25	4	300	0,1	7666	7678
0,3	2,5	300	0,5	7667	7679
0,3	3	300	0,4	7668	7680
0,3	4	300	0,3	7669	7681
0,3	5	300	0,2	7670	7682
0,4	3	300	0,9	4025	4096
0,4	4	300	0,7	4026	4097
0,4	5	300	0,6	4027	4098
0,5	4	300	1,3	4028	4099
0,5	5	300	1,1	4029	4100
0,5	6	300	0,9	4030	4101
0,5	7	300	0,8	4031	4102
0,5	8	300	0,7	4032	4103
0,6	4	300	2,3	4033	4104
0,6	5	300	1,8	4034	4105
0,6	6	300	1,5	4035	4106
0,6	7	300	1,4	4036	4107
0,6	8	300	1,2	4037	4108
0,75	6	300	3,0	4038	4109
0,75	7	300	2,6	4039	4110
0,75	8	300	2,2	4040	4111
0,75	9	300	0,2	4041	4112
0,75	10	300	1,8	4042	4113
0,75	12	300	1,5	4043	4114
1	6	300	6,0	4044	4115
1	7	300	5,7	4045	4116
1	8	300	5,0	4046	4117
1	9	300	4,6	4047	4118
1	10	300	4,0	4048	4119
1	12	300	3,5	4049	4120
1	14	300	3,0	4050	4121
1,2	8	300	8,0	4051	4122
1,2	9	300	7,5	4052	4123
1,2	10	300	7,0	4053	4124
1,2	12	300	6,0	4054	4125

D_t	D_y	L	F_o	EN 10270-1-SM Cat. no.	Stainless steel EN 10270-3-1.4310 Cat. no.
1,2	14	300	5,0	4055	4126
1,2	15	300	4,8	4056	4127
1,5	10	300	13	4057	4128
1,5	12	300	11	4058	4129
1,5	14	300	10	4059	4130
1,5	15	300	9	4060	4131
1,5	16	300	8,5	4061	4132
1,5	18	300	8	4062	4133
1,5	20	300	7	4063	4134
1,8	12	300	18	4064	4135
1,8	14	300	16	4065	4136
1,8	15	300	15	4066	4137
1,8	16	300	14	4067	4138
1,8	18	300	13	4068	4139
1,8	20	300	12	4069	4140
1,8	22	300	10	4070	4141
1,8	25	300	9	4071	4142
2	12	300	25	4072	4143
2	14	300	22	4073	4144
2	15	300	20	4074	4145
2	16	300	19	4075	4146
2	18	300	17	4076	4147
2	20	300	15	4077	4148
2	22	300	14	4078	4149
2	25	300	13	4079	4150
2,5	15	300	40	4080	4151
2,5	16	300	36	4081	4152
2,5	18	300	32	4082	4153
2,5	20	300	30	4083	4154
2,5	22	300	26	4084	4155
2,5	25	300	23	4085	4156
2,5	28	300	21	4086	4157
2,5	30	300	20	4087	4158
3	18	300	52	4088	4159
3	20	300	45	4089	4160
3	22	300	44	4090	4161
3	25	300	40	4091	4162
3	28	300	35	4092	4163
3	30	300	33	4093	4164
3	32	300	31	4094	4165
3	35	300	29	4095	4166

EXTENSION SPRING COILS

SF-TS, Length 1000 mm



Spring material, which can be cut into required length.

All dimensions are in mm

D_t = Wire diameter

D_y = Outer diameter

L = Length

F_o = Initial force in Newtons; the force required before the spring starts to extend

F_n = Max. permitted spring force in Newtons

Material: Spring steel EN 10270-1-SM

Stainless steel EN 10270-3-1.4310

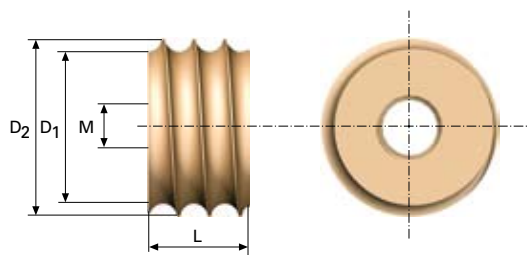
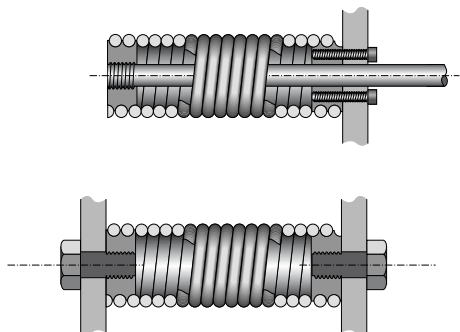
Tolerances: SS 2384, see page 220 for more information.

1 kp = 9.80665 Newtons, 1 Newton = 0.10197 kp

D_t	D_y	L	F_o	F_n	EN 10270-1-SM	Stainless steel EN 10270-3-1.4310
					Cat. no.	Cat.no
2	14	1000	22	134	8762	8803
2	16	1000	19	112	8763	8804
2	18	1000	17	102	8764	8805
2	20	1000	15	92	8765	8806
2	22	1000	14	84	8766	8807
2	25	1000	13	76	8767	8808
2,5	16	1000	36	215	8768	8809
2,5	18	1000	32	192	8769	8810
2,5	20	1000	30	173	8770	8811
2,5	22	1000	26	160	8771	8812
2,5	25	1000	23	139	8772	8813
2,5	30	1000	20	122	8773	8814
3	18	1000	52	322	8774	8815
3	20	1000	45	287	8775	8816
3	22	1000	44	266	8776	8817
3	25	1000	40	232	8777	8818
3	30	1000	33	195	8778	8819
3	35	1000	29	177	8779	8820
3,5	20	1000	70	424	8780	8821
3,5	22	1000	65	400	8781	8822
3,5	25	1000	60	356	8782	8823
3,5	30	1000	50	300	8783	8824
3,5	35	1000	42	268	8784	8825
3,5	40	1000	35	231	8785	8826
4	22	1000	100	580	8786	8827
4	25	1000	80	492	8787	8828
4	30	1000	70	422	8788	8829
4	35	1000	60	366	8789	8830
4	40	1000	50	335	8790	8831
5	25	1000	160	980	8791	8832
5	30	1000	130	788	8792	8833
5	35	1000	110	670	8793	8834
5	40	1000	100	600	8794	8835
5	45	1000	85	572	8795	8836
5	50	1000	70	516	8796	8837
6	30	1000	220	1405	8797	8838
6	35	1000	180	1160	8798	8839
6	40	1000	160	1026	8799	8840
6	45	1000	145	978	8800	8841
6	50	1000	130	797	8801	8842
6	60	1000	90	733	8802	8843

THREAD FITTING

SF-GF



Thread fitting for assembly in compression spring coils, see previous pages. This fitting is safer than conventional loops, which is why higher loads are permitted on the spring. The coil can be cut into the required length, and the fitting can be mounted without any special tools.

The fitting can also be used for compression springs, where the end coils are not ground. Special manufactured springs with two tightly wound coils at each end must then be ordered.

All dimensions are in mm

D_t = Wire diameter

D_y = Outer diameter

D_1 = Diameter, bottom of thread

D_2 = Diameter, thread

L = Length

A = Thread

Material: Automatic steel

Finish: Galvanised and yellow chromated

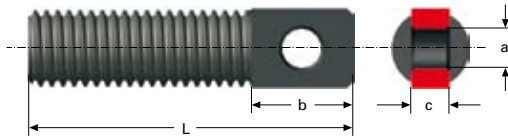
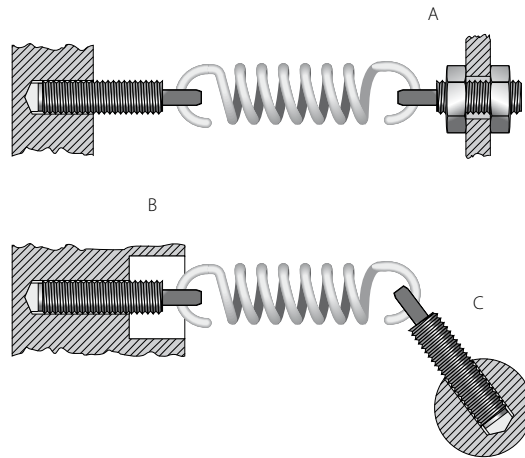
D_t	D_y	D_1	D_2	L	A	Cat.no
2,5	16	11	13	8	M6	8645
2,5	18	13	15	8	M6	8646
2,5	20	15	17	8	M6	8647
2,5	22	17	19	8	M6	8648
3	18	12	14,5	10	M6	8649
3	20	14	16,5	10	M6	8650
3	22	16	18,5	10	M6	8651
3	25	19	21,5	10	M6	8652
3,5	20	13	16	12	M8	8653
3,5	22	15	18	12	M8	8654
3,5	25	18	21	12	M8	8655
3,5	30	23	26	12	M8	8656
4	25	17	20	14	M8	8657
4	30	22	25	14	M8	8658
4	35	27	30	14	M8	8659
4	40	32	35	14	M8	8660
5	30	20	24	18	M10	8661
5	35	25	29	18	M10	8662
5	40	30	34	18	M10	8663
5	45	35	39	18	M10	8664
6	35	23	28	20	M12	8665
6	40	28	33	20	M12	8666
6	45	33	38	20	M12	8667
6	50	38	43	20	M12	8668

SPRING SOCKETS

FF



Fitting example



Spring sockets may be used for the mounting of an extension spring. You can easily adjust the spring force by screwing the socket in or out. Spring sockets are available as standard in seven dimensions; one length of each.

If the spring socket is mounted as shown in fig. A, the spring force can easily be adjusted without disengaging the spring. Where space is limited, the spring socket can be used as shown in fig. B. Fig. C shows a spring socket used as a lever.

All dimensions are in mm

L = Total length

a = Hole diameter

b = Mounting loop length

c = Mounting loop thickness

D_t = For maximum wire diameter

Material: SS 1650

Finish: Galvanised and black chromated

Thread	L	a	b	c	D_t	Cat. no.
M3	12	1,2	3,2	1,7	1,0	4658
M4	18	1,6	4,5	2	1,5	4659
M5	20	2,2	5,5	2,5	2,0	8958
M6	25	2,7	6,7	3	2,5	4660
M8	35	3,7	9	4	3,5	4661
M10	45	5,2	11	5	5	4662
M14	55	6,4	16	7	6	4663