



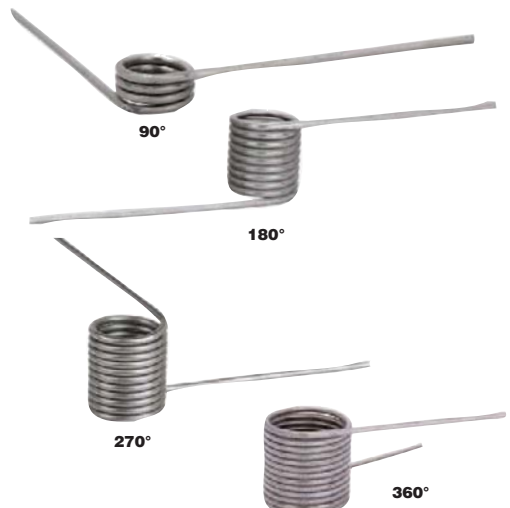
Precision Compression Springs

Manufactured to tighter load and dimensional tolerances.

Note: Additional sizes are available; on Grainger.com, search for "precision compression springs."

Type 302 Stainless Steel—Springs offer better corrosion resistance and perform well at up to 500°F. Meet ASTM A313 standards.

Overall Length	Outside Dia.	Wire Dia.	Compressed Length	Load (lb.)	Item No.	Pkg. Qty.	Overall Length	Outside Dia.	Wire Dia.	Compressed Length	Load (lb.)	Item No.	Pkg. Qty.
302 Stainless Steel							High Carbon Steel Music Wire						
1/4 in	0.12 in	0.016 in	0.114 in	1.6 lb	1NCG3	5	1/4 in	0.12 in	0.016 in	0.114 in	1.93 lb	1NBX9	5
3/8 in	0.24 in	0.022 in	0.111 in	2 lb	1NCG4	5	3/8 in	0.24 in	0.022 in	0.111 in	2.4 lb	1NB11	5
	0.12 in	0.016 in	0.205 in	1.56 lb	1NCG5	5		0.12 in	0.016 in	0.205 in	1.87 lb	1NB12	5
	0.12 in	0.022 in	0.309 in	3.62 lb	1NCG6	5		0.12 in	0.022 in	0.309 in	4.34 lb	1NB13	5
1/2 in	0.18 in	0.018 in	0.132 in	1.46 lb	1NCG7	5	1/2 in	0.18 in	0.018 in	0.132 in	1.75 lb	1NB14	5
	0.3 in	0.022 in	0.106 in	1.57 lb	1NCG8	5		0.3 in	0.022 in	0.106 in	1.89 lb	1NB15	5
	0.36 in	0.032 in	0.145 in	3.75 lb	1NCG9	5		0.36 in	0.032 in	0.145 in	4.5 lb	1NB16	5
	0.48 in	0.045 in	0.192 in	7.52 lb	1NCH1	5		0.48 in	0.045 in	0.192 in	9.1 lb	1NB17	5
5/8 in	0.18 in	0.026 in	0.274 in	4.02 lb	1NCH2	5	5/8 in	0.18 in	0.026 in	0.274 in	4.83 lb	1NB18	5
	0.24 in	0.022 in	0.144 in	1.93 lb	1NCH3	5		0.24 in	0.022 in	0.144 in	2.32 lb	1NB19	5
	0.24 in	0.026 in	0.203 in	3.12 lb	1NCH4	5		0.24 in	0.026 in	0.203 in	3.75 lb	1NB21	5
	0.24 in	0.032 in	0.273 in	5.6 lb	1NCH5	5		0.24 in	0.032 in	0.273 in	6.72 lb	1NB22	5
1 1/16 in	0.3 in	0.022 in	0.128 in	1.57 lb	1NCH6	5	1 1/16 in	0.3 in	0.022 in	0.128 in	1.89 lb	1NB23	5
	0.3 in	0.032 in	0.241 in	4.93 lb	1NCH7	5		0.3 in	0.032 in	0.241 in	5.92 lb	1NB24	5
	0.12 in	0.016 in	0.318 in	1.92 lb	1NCH8	5		0.12 in	0.016 in	0.318 in	2.3 lb	1NB25	5
	0.12 in	0.018 in	0.351 in	2.12 lb	1NCH9	5		0.12 in	0.018 in	0.351 in	2.55 lb	1NB26	5
	0.18 in	0.016 in	0.177 in	1.06 lb	1NCJ1	5		0.18 in	0.016 in	0.177 in	1.28 lb	1NB27	5
	0.24 in	0.038 in	0.39 in	8.1 lb	1NCJ2	5		0.24 in	0.038 in	0.39 in	10.58 lb	1NB28	5
3/4 in	0.36 in	0.026 in	0.138 in	2.1 lb	1NCJ3	5	3/4 in	0.36 in	0.026 in	0.138 in	2.52 lb	1NB29	5
	0.6 in	0.072 in	0.397 in	22.09 lb	1NCJ4	5		0.6 in	0.072 in	0.397 in	26.52 lb	1NC1A	5
	0.72 in	0.055 in	0.221 in	8.81 lb	1NCJ5	5		0.72 in	0.055 in	0.221 in	10.58 lb	1NC2A	5
	0.72 in	0.063 in	0.284 in	12.92 lb	1NCJ6	5		0.72 in	0.063 in	0.284 in	15.51 lb	1NC3A	5
	0.12 in	0.022 in	0.51 in	3.75 lb	1NCJ7	5		0.12 in	0.022 in	0.51 in	4.5 lb	1NC4A	5
	0.24 in	0.022 in	0.199 in	1.96 lb	1NCJ8	5		0.24 in	0.022 in	0.199 in	2.35 lb	1NC5A	5
	0.24 in	0.042 in	0.505 in	11.5 lb	1NCJ9	5		0.24 in	0.042 in	0.505 in	13.8 lb	1NC6A	5
1 3/16 in	0.3 in	0.045 in	0.417 in	11.9 lb	1NCK1	5	1 3/16 in	0.3 in	0.045 in	0.417 in	14.28 lb	1NC7A	5
	0.36 in	0.038 in	0.201 in	6.17 lb	1NCK2	5		0.36 in	0.038 in	0.201 in	7.41 lb	1NC8A	5
	0.36 in	0.042 in	0.306 in	8.16 lb	1NCK3	5		0.36 in	0.042 in	0.306 in	9.8 lb	1NC9A	5
	0.36 in	0.045 in	0.339 in	9.86 lb	1NCK4	5		0.36 in	0.045 in	0.339 in	11.84 lb	1NC1B	5
	0.18 in	0.026 in	0.391 in	4.12 lb	1NCK5	5		0.18 in	0.026 in	0.391 in	4.95 lb	1NC82	5
	0.24 in	0.026 in	0.287 in	3.13 lb	1NCK6	5		0.24 in	0.026 in	0.287 in	3.76 lb	1NC83	5
	0.3 in	0.022 in	0.166 in	1.57 lb	1NCK7	5		0.3 in	0.022 in	0.166 in	1.89 lb	1NC84	5
	0.36 in	0.032 in	0.209 in	3.83 lb	1NCK8	5		0.36 in	0.032 in	0.209 in	4.6 lb	1NC85	5
	0.42 in	0.047 in	0.33 in	9.56 lb	1NCK9	5		0.42 in	0.047 in	0.33 in	11.48 lb	1NC86	5
7/8 in	0.48 in	0.038 in	0.21 in	4.44 lb	1NCL1	5	7/8 in	0.48 in	0.038 in	0.21 in	5.57 lb	1NC87	5
	0.48 in	0.045 in	0.271 in	7.64 lb	1NCL2	5		0.48 in	0.045 in	0.271 in	8.93 lb	1NC88	5
	0.48 in	0.055 in	0.373 in	6.65 lb	1NCL3	5		0.48 in	0.055 in	0.373 in	15.58 lb	1NC89	5
	0.48 in	0.063 in	0.457 in	18.95 lb	1NCL4	5		0.48 in	0.063 in	0.457 in	22.75 lb	1NC1C	5
	0.6 in	0.045 in	0.226 in	6 lb	1NCL5	5		0.6 in	0.045 in	0.226 in	7.2 lb	1NC2C	5
	0.72 in	0.072 in	0.361 in	18.79 lb	1NCL6	5		0.72 in	0.072 in	0.361 in	22.56 lb	1NC3C	5
1 in	0.18 in	0.032 in	0.601 in	7.01 lb	1NCL7	5	1 in	0.18 in	0.032 in	0.601 in	12.18 lb	1NC4C	5
	0.24 in	0.032 in	0.425 in	5.6 lb	1NCL8	5		0.24 in	0.032 in	0.425 in	6.72 lb	1NC5C	5
1 1/2 in	0.24 in	0.038 in	0.772 in	8.92 lb	1NCL9	5	1 1/2 in	0.24 in	0.038 in	0.772 in	10.71 lb	1NC6C	5
	0.24 in	0.042 in	0.905 in	11.62 lb	1NCL8	5		0.24 in	0.042 in	0.905 in	13.95 lb	1NC5D	5
1 in	0.3 in	0.026 in	0.229 in	2.54 lb	1NCL9	5	1 in	0.3 in	0.026 in	0.229 in	3.05 lb	1NC6C	5
	0.3 in	0.032 in	0.337 in	4.5 lb	1NCL1	5		0.3 in	0.032 in	0.337 in	5.4 lb	1NC7C	5
	0.3 in	0.038 in	0.571 in	7.31 lb	1NCL9	5		0.3 in	0.038 in	0.571 in	8.78 lb	1NCL6D	5
1 1/2 in	0.3 in	0.042 in	0.673 in	9.5 lb	1NCP1	5	1 1/2 in	0.3 in	0.042 in	0.673 in	11.4 lb	1NCD7	5
	0.3 in	0.045 in	0.743 in	11.7 lb	1NCP2	5		0.3 in	0.045 in	0.743 in	14.04 lb	1NCD8	5
1 3/8 in	0.36 in	0.026 in	0.19 in	2.13 lb	1NCP2	5	1 3/8 in	0.36 in	0.026 in	0.19 in	2.56 lb	1NCC8	5
	0.36 in	0.032 in	0.338 in	3.8 lb	1NCP3	5		0.36 in	0.032 in	0.338 in	4.57 lb	1NCP9	5
	0.36 in	0.038 in	0.477 in	6.15 lb	1NCP4	5		0.36 in	0.038 in	0.477 in	7.39 lb	1NCE1	5
	0.36 in	0.042 in	0.527 in	8.09 lb	1NCP5	5		0.36 in	0.042 in	0.527 in	9.72 lb	1NCE2	5
	0.36 in	0.045 in	0.586 in	9.75 lb	1NCP6	5		0.36 in	0.045 in	0.586 in	11.7 lb	1NCE3	5
	0.42 in	0.038 in	0.381 in	5.31 lb	1NCP7	5		0.42 in	0.038 in	0.381 in	6.37 lb	1NCE4	5
	0.42 in	0.042 in	0.442 in	7 lb	1NCP8	5		0.42 in	0.042 in	0.442 in	8.4 lb	1NCE5	5
	0.42 in	0.055 in	0.661 in	14.93 lb	1NCP9	5		0.42 in	0.055 in	0.661 in	17.92 lb	1NCE6	5
1 1/2 in	0.48 in	0.038 in	0.315 in	4.65 lb	1NCR1	5	1 1/2 in	0.48 in	0.038 in	0.315 in	5.58 lb	1NCE7	5
	0.48 in	0.042 in	0.379 in	6.16 lb	1NCR2	5		0.48 in	0.042 in	0.379 in	7.4 lb	1NCE8	5
	0.48 in	0.045 in	0.404 in	7.42 lb	1NCR3	5		0.48 in	0.045 in	0.404 in	8.91 lb	1NCE9	5
	0.48 in	0.055 in	0.565 in	13.19 lb	1NCR4	5		0.48 in	0.055 in	0.565 in	15.84 lb	1NCF1	5
	0.48 in	0.063 in	0.694 in	19.11 lb	1NCR5	5		0.48 in	0.063 in	0.694 in	22.94 lb	1NCF2	5
	0.6 in	0.045 in	0.35 in	6.01 lb	1NCR6	5		0.6 in	0.045 in	0.35 in	7.22 lb	1NCF3	5
	0.6 in	0.055 in	0.427 in	10.62 lb	1NCR7	5		0.6 in	0.055 in	0.427 in	12.75 lb	1NCF4	5
	0.6 in	0.063 in	0.552 in	15.39 lb	1NCR8	5		0.6 in	0.063 in	0.552 in	18.48 lb	1NCF5	5
1 3/4 in	0.6 in	0.067 in	0.705 in	18.19 lb	1NCR9	5	1 3/4 in	0.6 in	0.067 in	0.705 in	21.84 lb	1NCF6	5
	0.6 in	0.072 in	0.596 in	25.49 lb	1NCR3	5		0.6 in	0.072 in	0.596 in	30.6 lb	1NCR9	5
	0.72 in	0.055 in	0.304 in	8.4 lb	1NCR4	5		0.72 in	0.055 in	0.304 in	10.08 lb	1NCR1	5
1 1/4 in	0.72 in	0.063 in	0.441 in	12.98 lb	1NCR5	5	1 1/4 in	0.72 in	0.063 in	0.441 in	15.58 lb	1NCR2	5
	0.72 in	0.072 in	0.47 in	18.97 lb	1NCR6	5		0.72 in	0.072 in	0.47 in	22.77 lb	1NCR3	5
	0.6 in	0.072 in	0.939 in	22.31 lb	1NCT1	5		0.6 in	0.072 in	0.939 in	26.78 lb	1NCF7	5
	0.72 in	0.055 in	0.421 in	8.92 lb	1NCT2	5		0.72 in	0.055 in	0.421 in	10.71 lb	1NCF8	5
2 in	0.72 in	0.063 in	0.616 in	13.01 lb	1NCT3	5	2 in	0.72 in	0.063 in	0.616 in	15.62 lb	1NCF9	5
	0.72 in	0.067 in	0.606 in	18.08 lb	1NCT4	5		0.72 in	0.067 in	0.606 in	21.7 lb	1NCG1	5
	0.72 in	0.072 in	0.686 in	18.83 lb	1NCT5	5		0.72 in	0.072 in	0.686 in	22.6 lb	1NCG2	5
							3 in	0.7188 in	0.085 in	1.116 in	42.6 lb	38HY78	5



Torsion Springs

With straight legs and ends.

Note: Additional sizes are available; on Grainger.com, search for "torsion springs."

Outside Dia.	Wire Dia.	Leg Length	Max. Rod Outside Dia.	Spring Length @ Torque	No. of Coils	Torque @ 1/2 Leg Length (in.-lb.)*	Pkg. Qty.	RIGHT-HAND WOUND STEEL MUSIC WIRE Item No.	LEFT-HAND WOUND CARBON STEEL MUSIC WIRE Item No.
302 STAINLESS STEEL									
90° Angle of Deflection									
0.776 in	0.095 in	3 in	0.453 in	1.5 in	3.25	16.0	1	3HPR6	3HPP3
0.848 in	0.105 in	3.5 in	0.5 in	1.75 in	3.25	20.97	1	3HPR7	3HPP4
0.989 in	0.125 in	4 in	0.591 in	2 in	4.25	32.0	1	3HPR9	3HPP6
1.102 in	0.1								