

Compression Springs - Instrument

Tolerances Compression and Extension Diameters	
.057" to .094" O.D. $\pm .003$ "	1.45 mm to 2.36 mm $\pm .08$ mm
.102" to .250" O.D. $\pm .003$ "	2.59 mm to 6.10 mm $\pm .13$ mm
.300" to .500" O.D. $\pm .008$ "	7.62 mm to 12.70 mm $\pm .20$ mm
.540" to .850" O.D. $\pm .015$ "	13.97 mm to 21.59 mm $\pm .38$ mm
.875" to 1.125" O.D. $\pm .020$ "	22.23 mm to 28.58 mm $\pm .51$ mm
1.150" to 1.218" O.D. $\pm .025$ "	29.21 mm to 30.94 mm $\pm .64$ mm
1.250" to 1.460" O.D. $\pm .030$ "	31.75 mm to 37.08 mm $\pm .76$ mm
1.480" to 1.687" O.D. $\pm .040$ "	37.59 mm to 42.85 mm ± 1.02 mm
1.937" to 2.000" O.D. $\pm .055$ "	49.20 mm to 50.80 mm ± 1.40 mm
Spring rate: $\pm 10\%$	Solid height: + 5% no lower limit

Improved corrosion resistance. Ultrasonically cleaned for medical and food industries. Higher levels of product purity. Enhanced visual integrity.

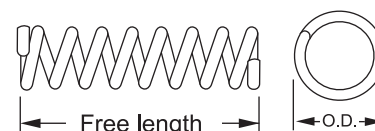
Direction of Wind



- ▶ Left or right (Spring option).
- ▶ Ends compression springs standard and heavy duty series
- ▶ Squared and ground (Squareness within 3°).
- ▶ Instrument and lite pressure series
- ▶ Squared, not ground.
- ▶ Extension springs instrument and standard series
- ▶ Full diameter loops at random position.
- ▶ Loop openings of approximately one wire diameter.

Material

Music wire per ASTM A228, DIN 17223, EN 10270-1 or JIS-G 3522. Stainless Steel type 302(304) or type 316 per ASTM A313, DIN 17224, BS 2056, EN 10270-3 or JIS-G-4314. Oil Tempered MB per ASTM A229, DIN 17223, BS 2803 or EN 10270-2. Oil Tempered chrome silicon per ASTM A401, DIN 17223, BS 2803 or EN 10270-2.



Plating

All music wire and oil tempered standard and heavy duty stock springs and furnished zinc plated in accordance with specification ASTM B633 Class Fe/Zn 5 type III (.0002" Thick with clear chromate) and baked for hydrogen embitterment relief. All music wire instrument compression and extension springs are furnished zinc plated or tin coated without supplemental zinc plating. Spring stock springs are manufactured RoHS compliant and do not use cadmium, lead, mercury, hexavalent chromium, polybrominated biphenyl(PBB) or polybrominated biphenyl ether(PBDE) in plating or any other processes. Spring products are exempt from the OSHA hazardous communication standard.

Instrument Series (Inch)

Number	*Price (Pkg./20) \$			Mfr's	Outside Diameter		Work in Hole Diameter		Wire Diameter		Approx. Load at Solid Hgt.		Free Length		Spring Rate	
	Alloy	302	316		In.	mm	In.	mm	In.	mm	lb.	kg.	In.	mm	lb/in	kg/mm
4C10 0802	---	---	---	CI 008A 02												
4C10 0805	---	---	---	CI 008A 05	.057	1.45	.063	1.59	.008	.20	.800	.362	0.188	4.76	7.60	0.136
4C10 0806	---	---	---	CI 008A 06									0.375	9.52	3.40	0.061
4C10 0808	---	---	---	CI 008A 08									0.438	11.11	2.80	0.050
4C10 0701	---	---	---	CI 007AB 01									0.563	14.29	2.20	0.039
4C10 0704	---	---	---	CI 007AB 04	.063	1.59	.078	1.98	.007	.18	.426	.193	0.125	3.18	5.48	0.098
4C10 0708	---	---	---	CI 007AB 08									0.313	7.95	1.95	0.035
4C10 0803	---	---	---	CI 008AB 03									0.563	14.30	1.05	0.019
4C10 0806	---	---	---	CI 008AB 06	.063	1.59	.078	1.98	.008	.20	.854	.387	0.250	6.35	5.16	0.092
4C10 0809	---	---	---	CI 008AB 09									0.438	11.13	2.82	0.050
4C10 0902	---	---	---	CI 009AB 02									0.625	15.88	1.94	0.035
4C10 0905	---	---	---	CI 009AB 05	.063	1.59	.078	1.98	.009	.23	.939	.426	0.188	4.78	9.33	0.167
4C10 0908	---	---	---	CI 009AB 08									0.375	9.53	4.31	0.077
4C10 1002	---	---	---	CI 010AB 02									0.563	14.30	2.80	0.050
4C10 1005	---	---	---	CI 010AB 05	.063	1.59	.078	1.98	.010	.25	1.312	.595	0.188	4.78	14.68	0.262
4C10 1008	---	---	---	CI 010AB 08									0.375	9.53	6.72	0.120
4C10 0802	---	---	---	CI 008B 02									0.563	14.30	4.35	0.078
4C10 0804	---	---	---	CI 008B 04	.088	2.24	.094	2.38	.008	.20	.500	.226	0.188	4.76	3.50	0.062
4C10 0807	---	---	---	CI 008B 07									0.313	7.94	2.00	0.036
4C10 0811	---	---	---	CI 008B 11									0.500	12.70	1.10	0.020
4C10 1002	---	---	---	CI 010B 02									0.750	19.05	0.77	0.014
4C10 1004	---	---	---	CI 010B 04									0.188	4.76	7.00	0.125
4C10 1010	---	---	---	CI 010B 10	.088	2.24	.094	2.38	.010	.25	.800	.362	0.313	7.94	4.00	0.071
4C10 1013	---	---	---	CI 010B 13									0.688	17.45	1.70	0.030
7C01 2002	---	---	---	CI 012C 02									1.000	25.40	1.30	0.023
7C01 2003	---	---	---	CI 012C 04	.102	2.59	.109	2.77	.012	.30	1.250	.570	0.313	7.95	6.30	0.113
7C01 2004	---	---	---	CI 012C 06									0.438	11.13	4.40	0.078
7C01 2005	---	---	---	CI 012C 09									0.563	14.30	3.30	0.060
7C01 2006	---	---	---	CI 010D 02									0.875	22.23	2.10	0.037
7C01 2007	---	---	---	CI 010D 07									0.313	7.95	2.50	0.045
7C01 2008	---	---	---	CI 010D 10	.120	3.05	.125	3.18	.010	.25	.600	.270	0.625	15.88	1.20	0.021
													1.000	25.40	0.70	0.013

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