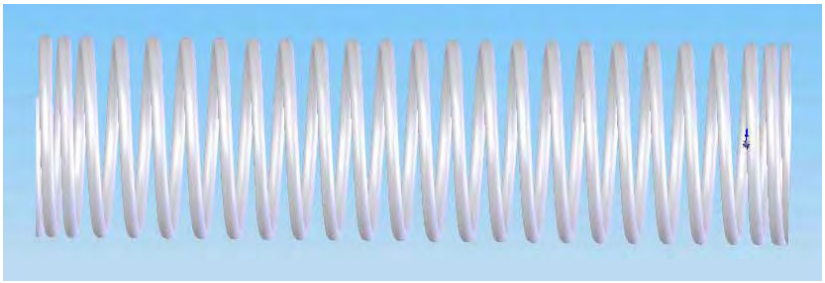
MORRIS springs



STEEL COMPRESSION SPRINGS

FROM STOCK

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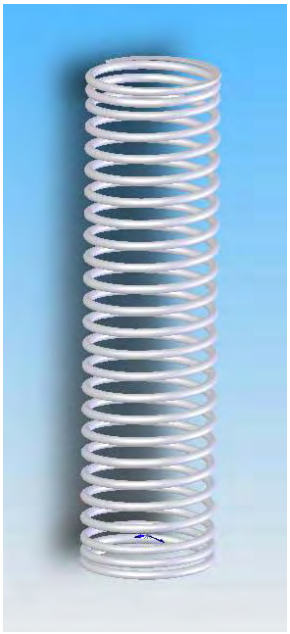

Spring No.	Length		Outside Diameter		Total Coils	Wire Dia			Appox. Solid Load		Solid Height		Spring Rate	
	Ins.	mm	Ins.	mm		SWG	Ins.	mm	lb	kg	Ins	mm	lb/in	N/mm
MSC 89	0.50	13	0.187	4.75	9	26	0.018	0.45	1.5	0.7	0.159	4.05	3.88	0.682
MSC 90	0.75	19	0.187	4.75	13	26	0.018	0.45	1.5	0.7	0.230	5.85	2.53	0.445
MSC 91	1.00	25	0.187	4.75	16.5	26	0.018	0.45	1.5	0.7	0.293	7.43	1.94	0.341
MSC 92	1.50	38	0.187	4.75	24.5	26	0.018	0.45	1.5	0.7	0.434	11.02	1.26	0.222
MSC 93	0.50	13	0.187	4.75	9.5	24	0.022	0.56	3.0	1.4	0.209	5.32	9.43	1.656
MSC 94	0.75	19	0.187	4.75	13.5	24	0.022	0.56	3.0	1.4	0.298	7.56	6.29	1.104
MSC 95	1.00	25	0.187	4.75	17.5	24	0.022	0.56	3.0	1.4	0.386	9.8	4.72	0.828
MSC 96	1.50	38	0.187	4.75	25.5	24	0.022	0.56	3.0	1.4	0.562	14.28	3.14	0.552
MSC 97	0.50	13	0.187	4.75	10	22	0.028	0.71	6.0	2.8	0.280	7.1	25.60	4.494
MSC 98	0.75	19	0.187	4.75	14	22	0.028	0.71	6.0	2.8	0.391	9.94	17.41	3.056
MSC 99	1.00	25	0.187	4.75	18.5	22	0.028	0.71	6.0	2.8	0.517	13.14	12.80	2.247
MSC 100	1.50	38	0.187	4.75	27	22	0.028	0.71	6.0	2.8	0.755	19.17	8.53	1.498
MSC 101	1.00	25	0.25	6.4	12.5	23	0.024	0.61	2.5	1.2	0.300	7.63	3.66	0.643
MSC 102	1.25	32	0.25	6.4	15.5	23	0.024	0.61	2.5	1.2	0.372	9.45	2.88	0.505
MSC 103	1.50	38	0.25	6.4	18	23	0.024	0.61	2.5	1.2	0.432	10.98	2.44	0.429
MSC 104	2.00	51	0.25	6.4	24	23	0.024	0.61	2.5	1.2	0.576	14.64	1.79	0.314
MSC 105	1.00	25	0.25	6.4	14	21	0.032	0.81	6.5	3.0	0.446	11.34	11.13	1.954
MSC 106	1.25	32	0.25	6.4	17.5	21	0.032	0.81	6.5	3.0	0.558	14.18	8.70	1.527
MSC 107	1.50	38	0.25	6.4	20.5	21	0.032	0.81	6.5	3.0	0.654	16.6	7.33	1.286
MSC 108	2.00	51	0.25	6.4	27	21	0.032	0.81	6.5	3.0	0.861	21.87	5.46	0.958
MSC 109	1.00	25	0.25	6.4	15.5	19	0.040	1.0	11	5.0	0.610	15.5	25.62	4.497
MSC 110	1.25	32	0.25	6.4	19	19	0.040	1.0	11	5.0	0.748	19	20.49	3.597
MSC 111	1.50	38	0.25	6.4	22.5	19	0.040	1.0	11	5.0	0.886	22.5	17.08	2.998
MSC 112	2.00	51	0.25	6.4	30	19	0.040	1.0	11	5.0	1.181	30	12.58	2.209

Spring No.	Length		Outside Diameter		Total Coils	Wire Dia			Appox. Solid Load		Solid Height		Spring Rate	
	Ins.	mm	Ins.	mm		SWG	Ins.	mm	lb	kg	Ins	mm	lb/in	N/mm
MSC 113	1.00	25	0.31	8.0	10	22	0.028	0.71	3.5	1.6	0.280	7.1	4.36	0.765
MSC 114	1.25	32	0.31	8.0	12	22	0.028	0.71	3.5	1.6	0.335	8.52	3.53	0.619
MSC 115	1.50	38	0.31	8.0	14	22	0.028	0.71	3.5	1.6	0.391	9.94	2.96	0.520
MSC 116	2.00	51	0.31	8.0	18	22	0.028	0.71	3.5	1.6	0.503	12.78	2.24	0.394
MSC 117	1.00	25	0.31	8.0	11.5	20	0.036	0.91	7	3.2	0.412	10.47	10.86	1.907
MSC 118	1.25	32	0.31	8.0	13.5	20	0.036	0.91	7	3.2	0.483	12.28	9.05	1.589
MSC 119	1.50	38	0.31	8.0	16	20	0.036	0.91	7	3.2	0.573	14.56	7.49	1.315
MSC 120	2.00	51	0.31	8.0	21	20	0.036	0.91	7	3.2	0.752	19.11	5.57	0.978
MSC 121	1.00	25	0.31	8.0	13	18	0.048	1.2	15	7	0.614	15.6	32.38	5.684
MSC 122	1.25	32	0.31	8.0	15.5	18	0.048	1.2	15	7	0.732	18.6	26.60	4.669
MSC 123	1.50	38	0.31	8.0	18.5	18	0.048	1.2	15	7	0.874	22.2	21.90	3.845
MSC 124	2.00	51	0.31	8.0	24.5	18	0.048	1.2	15	7	1.157	29.4	16.19	2.842
MSC 125	1.00	25	0.38	9.5	8.5	20	0.036	0.91	7	3.2	0.305	7.74	8.73	1.532
MSC 126	1.25	32	0.38	9.5	10.5	20	0.036	0.91	7	3.2	0.376	9.56	6.79	1.192
MSC 127	1.50	38	0.38	9.5	12.5	20	0.036	0.91	7	3.2	0.448	11.38	5.55	0.975
MSC 128	2.00	51	0.38	9.5	15.5	20	0.036	0.91	7	3.2	0.555	14.1	4.36	0.766
MSC 129	1.00	25	0.38	9.5	10	18	0.048	1.2	15	7	0.472	12	24.09	4.229
MSC 130	1.25	32	0.38	9.5	12	18	0.048	1.2	15	7	0.567	14.4	19.50	3.424
MSC 131	1.50	38	0.38	9.5	14.5	18	0.048	1.2	15	7	0.685	17.4	15.75	2.765
MSC 132	2.00	51	0.38	9.5	18.5	18	0.048	1.2	15	7	0.874	22.2	12.05	2.115
MSC 133	1.00	25	0.38	9.5	10.5	16	0.064	1.6	30	14	0.661	16.8	83.39	14.64
MSC 134	1.25	32	0.38	9.5	13	16	0.064	1.6	30	14	0.819	20.8	65.26	11.457
MSC 135	1.50	38	0.38	9.5	15.5	16	0.064	1.6	30	14	0.976	24.8	53.61	9.411
MSC 136	2.00	51	0.38	9.5	20	16	0.064	1.6	30	14	1.260	32	40.57	7.122

Spring No.	Length		Outside Diameter		Total Coils	Wire Dia			Appox. Solid Load		Solid Height		Spring Rate	
	Ins.	mm	Ins.	mm		SWG	Ins.	mm	lb	kg	Ins	mm	lb/in	N/mm
MSC 137	1.00	25	0.44	11	7.5	19	0.040	1.0	7	3.2	0.295	7.5	9.41	1.652
MSC 138	1.25	32	0.44	11	8.5	19	0.040	1.0	7	3.2	0.335	8.5	8.07	1.416
MSC 139	1.50	38	0.44	11	9.5	19	0.040	1.0	7	3.2	0.374	9.5	7.06	1.239
MSC 140	2.00	51	0.44	11	13	19	0.040	1.0	7	3.2	0.512	13	4.91	0.862
MSC 141	2.50	64	0.44	11	17	19	0.040	1.0	7	3.2	0.669	17	3.65	0.64
MSC 142	1.00	25	0.44	11	9	17	0.056	1.4	20	9	0.496	12.6	32.69	5.739
MSC 143	1.25	32	0.44	11	11	17	0.056	1.4	20	9	0.606	15.4	25.81	4.531
MSC 144	1.50	38	0.44	11	13	17	0.056	1.4	20	9	0.717	18.2	21.32	3.743
MSC 145	2.00	51	0.44	11	16	17	0.056	1.4	20	9	0.882	22.4	16.91	2.968
MSC 146	2.50	64	0.44	11	20	17	0.056	1.4	20	9	1.102	28	13.25	2.326
MSC 147	1.00	25	0.44	11	8.5	15	0.072	1.8	40	18	0.602	15.3	108.74	19.09
MSC 148	1.25	32	0.44	11	11	15	0.072	1.8	40	18	0.780	19.8	80.12	14.066
MSC 149	1.50	38	0.44	11	13.5	15	0.072	1.8	40	18	0.957	24.3	63.43	11.136
MSC 150	2.00	51	0.44	11	17.5	15	0.072	1.8	40	18	1.240	31.5	47.57	8.352
MSC 151	2.50	64	0.44	11	21.5	15	0.072	1.8	40	18	1.524	38.7	38.06	6.682
MSC 152	1.25	32	0.50	13	8	18	0.048	1.2	11	5	0.378	9.6	10.97	1.925
MSC 153	1.50	38	0.50	13	9.5	18	0.048	1.2	11	5	0.449	11.4	8.91	1.564
MSC 154	2.00	51	0.50	13	12.5	18	0.048	1.2	11	5	0.591	15	6.48	1.137
MSC 155	2.50	64	0.50	13	15.5	18	0.048	1.2	11	5	0.732	18.6	5.09	0.894
MSC 156	3.00	76	0.50	13	18	18	0.048	1.2	11	5	0.850	21.6	4.32	0.758
MSC 157	1.25	32	0.50	13	9.5	16	0.064	1.6	25	11	0.598	15.2	31.22	5.481
MSC 158	1.50	38	0.50	13	11	16	0.064	1.6	25	11	0.693	17.6	26.29	4.616
MSC 159	2.00	51	0.50	13	14	16	0.064	1.6	25	11	0.882	22.4	19.98	3.508
MSC 160	2.50	64	0.50	13	17	16	0.064	1.6	25	11	1.071	27.2	16.11	2.829
MSC 161	3.00	76	0.50	13	20.5	16	0.064	1.6	25	11	1.291	32.8	13.15	2.308

Spring No.	Length		Outside Diameter		Total Coils	Wire Dia			Appox. Solid Load		Solid Height		Spring Rate	
	Ins.	mm	Ins.	mm		SWG	Ins.	mm	lb	kg	Ins	mm	lb/in	N/mm
MSC 162	1.25	32	0.50	13	10	14	0.080	2.0	45	20	0.787	20	79.86	14.019
MSC 163	1.50	38	0.50	13	12	14	0.080	2.0	45	20	0.945	24	64.64	11.348
MSC 164	2.00	51	0.50	13	15.5	14	0.080	2.0	45	20	1.220	31	48.48	8.511
MSC 165	2.50	64	0.50	13	19	14	0.080	2.0	45	20	1.496	38	38.79	6.809
MSC 166	3.00	76	0.50	13	23	14	0.080	2.0	45	20	1.811	46	31.57	5.542
MSC 167	1.50	38	0.63	16	7.5	17	0.056	1.4	13	6	0.413	10.5	11.61	2.039
MSC 168	2.00	51	0.63	16	10	17	0.056	1.4	13	6	0.551	14	8.20	1.439
MSC 169	2.50	64	0.63	16	12	17	0.056	1.4	13	6	0.661	16.8	6.64	1.165
MSC 170	3.00	76	0.63	16	14.5	17	0.056	1.4	13	6	0.799	20.3	5.36	0.941
MSC 171	3.50	89	0.63	16	16.5	17	0.056	1.4	13	6	0.909	23.1	4.65	0.816
MSC 172	1.50	38	0.63	16	9	15	0.072	1.8	30	14	0.638	16.2	27.60	4.846
MSC 173	2.00	51	0.63	16	11	15	0.072	1.8	30	14	0.780	19.8	21.79	3.826
MSC 174	2.50	64	0.63	16	14	15	0.072	1.8	30	14	0.992	25.2	16.56	2.907
MSC 175	3.00	76	0.63	16	16	15	0.072	1.8	30	14	1.134	28.8	14.27	2.506
MSC 176	3.50	89	0.63	16	19	15	0.072	1.8	30	14	1.346	34.2	11.83	2.077
MSC 177	1.50	38	0.63	16	10	13	0.092	2.3	50	23	0.906	23	72.29	12.691
MSC 178	2.00	51	0.63	16	12.5	13	0.092	2.3	50	23	1.132	28.75	55.86	9.807
MSC 179	2.50	64	0.63	16	15.5	13	0.092	2.3	50	23	1.404	35.65	43.90	7.706
MSC 180	3.00	76	0.63	16	17.5	13	0.092	2.3	50	23	1.585	40.25	38.40	6.742
MSC 181	3.50	89	0.63	16	20.5	13	0.092	2.3	50	23	1.880	47.75	32.34	5.678
MSC 182	2.00	51	0.75	19	8.5	15	0.072	1.8	25	11	0.602	15.3	16.64	2.921
MSC 183	2.50	64	0.75	19	10.5	15	0.072	1.8	25	11	0.744	18.9	12.94	2.272
MSC 184	3.00	76	0.75	19	12.5	15	0.072	1.8	25	11	0.886	22.5	10.59	1.859
MSC 185	3.50	89	0.75	19	14.5	15	0.072	1.8	25	11	1.028	26.1	8.96	1.573
MSC 186	4.00	102	0.75	19	16.5	15	0.072	1.8	25	11	1.169	29.7	7.76	1.363

Spring No.	Length		Outside Diameter		Total Coils	Wire Dia			Appox. Solid Load		Solid Height		Spring Rate	
	Ins.	mm	Ins.	mm		SWG	Ins.	mm	lb	kg	Ins	mm	lb/in	N/mm
MSC 187	2.00	51	0.75	19	10	13	0.092	2.3	50	23	0.906	23	39.91	7.007
MSC 188	2.00	64	0.75	19	12	13	0.092	2.3	50	23	1.087	27.6	32.31	5.672
MSC 189	2.00	76	0.75	19	14	13	0.092	2.3	50	23	1.268	32.2	27.14	4.765
MSC 190	2.00	89	0.75	19	16	13	0.092	2.3	50	23	1.449	36.8	23.40	4.108
MSC 191	2.00	102	0.75	19	18	13	0.092	2.3	50	23	1.630	41.4	20.56	3.61
MSC 192	2.00	51	0.75	19	10.5	11	0.116	2.9	90	41	1.199	30.45	106.33	18.666
MSC 193	2.50	64	0.75	19	13	11	0.116	2.9	90	41	1.484	37.7	83.21	14.608
MSC 194	3.00	76	0.75	19	15.5	11	0.116	2.9	90	41	1.770	44.95	68.35	12
MSC 195	3.50	89	0.75	19	18	11	0.116	2.9	90	41	2.055	52.2	58.00	10.182
MSC 196	4.00	102	0.75	19	20.5	11	0.116	2.9	90	41	2.341	59.45	50.37	8.842
MSC 197	2.00	51	0.88	22	7.5	14	0.080	2.0	25	11	0.591	15	18.82	3.304
MSC 198	2.50	64	0.88	22	9	14	0.080	2.0	25	11	0.709	18	15.06	2.643
MSC 199	3.00	76	0.88	22	10.5	14	0.080	2.0	25	11	0.827	21	12.55	2.203
MSC 200	3.50	89	0.88	22	12	14	0.080	2.0	25	11	0.945	24	10.75	1.888
MSC 201	4.00	102	0.88	22	13.5	14	0.080	2.0	25	11	1.063	27	9.41	1.652
MSC 202	2.00	51	0.88	22	8.5	12	0.104	2.6	60	28	0.870	22.1	50.49	8.863
MSC 203	2.50	64	0.88	22	10	12	0.104	2.6	60	28	1.024	26	41.58	7.299
MSC 204	3.00	76	0.88	22	12	12	0.104	2.6	60	28	1.228	31.2	33.66	5.909
MSC 205	3.50	89	0.88	22	14	12	0.104	2.6	60	28	1.433	36.4	28.27	4.963
MSC 206	4.00	102	0.88	22	15.5	12	0.104	2.6	60	28	1.587	40.3	25.24	4.431
MSC 207	2.00	51	0.88	22	9.5	10	0.128	3.2	100	46	1.197	30.4	111.38	19.553
MSC 208	2.50	64	0.88	22	11.5	10	0.128	3.2	100	46	1.449	36.8	89.11	15.643
MSC 209	3.00	76	0.88	22	13.5	10	0.128	3.2	100	46	1.701	43.2	74.25	13.035
MSC 210	3.50	89	0.88	22	15.5	10	0.128	3.2	100	46	1.953	49.6	66.72	11.713
MSC 211	4.00	102	0.88	22	18	10	0.128	3.2	100	46	2.268	57.6	54.00	9.48

Spring No.	Length		Outside Diameter		Total Coils	Wire Dia			Appox. Solid Load		Solid Height		Spring Rate	
	Ins.	mm	Ins.	mm		SWG	Ins.	mm	lb	kg	Ins	mm	lb/in	N/mm
MSC 212	2.50	64	1.00	25	8.5	12	0.104	2.6	55	25	0.870	22.1	32.80	5.758
MSC 213	3.00	76	1.00	25	10	12	0.104	2.6	55	25	1.024	26	27.01	4.741
MSC 214	3.50	89	1.00	25	11.5	12	0.104	2.6	55	25	1.177	29.9	22.96	4.03
MSC 215	4.00	102	1.00	25	13	12	0.104	2.6	55	25	1.331	33.8	19.97	3.505
MSC 216	5.00	128	1.00	25	15.5	12	0.104	2.6	55	25	1.587	40.3	16.40	2.879
MSC 217	2.50	64	1.00	25	9.5	10	0.128	3.2	100	46	1.197	30.4	71.44	12.541
MSC 218	3.00	76	1.00	25	11	10	0.128	3.2	100	46	1.386	35.2	60.16	10.561
MSC 219	3.50	89	1.00	25	12.5	10	0.128	3.2	100	46	1.575	40	51.96	9.121
MSC 220	4.00	102	1.00	25	14	10	0.128	3.2	100	46	1.764	44.8	45.72	8.026
MSC 221	5.00	128	1.00	25	17.5	10	0.128	3.2	100	46	2.205	56	35.72	6.27
MSC 222	2.50	64	1.00	25	10	8	0.16	4.0	170	77	1.575	40	183.62	32.236
MSC 223	3.00	76	1.00	25	12	8	0.16	4.0	170	77	1.890	48	148.65	26.096
MSC 224	3.50	89	1.00	25	14	8	0.16	4.0	170	77	2.205	56	124.87	21.921
MSC 225	4.00	102	1.00	25	15.5	8	0.16	4.0	170	77	2.441	62	110.35	19.372
MSC 226	5.00	128	1.00	25	19.5	8	0.16	4.0	170	77	3.071	78	86.71	15.223