

BANTAM™ SPRINGS

Guide to using tables

Wire Diameter

in ascending order of size, within each group of outside diameters.

Load at Solid Height

the load or force required to bring all coils into contact

Lee Stock Number

ordering reference

Outside Diameter

arranged through the pages in ascending order of size.

Minimum Hole Diameter

required for the effective operation of the spring, allowing for manufacturing tolerances and normal working conditions.

Free Length

the overall length of the spring in the unloaded position.

Price Group

reference to the price list

Solid Height

Length when fully compressed.

Spring Rate

change in load or force per unit of deflection

LEE STOCK NUMBER	OUTSIDE DIAMETER		TO WORK IN HOLE DIAMETER MIN.		NOMINAL WIRE DIAMETER		APPROXIMATE LOAD AT SOLID HEIGHT		NOMINAL FREE LENGTH		SPRING RATE	APPROXIMATE SOLID HEIGHT		PRICE GROUP	
	MM	IN	MM	IN	MM	IN	N	LB	MM	IN		MM	IN		
BANTAM SPRINGS															
● Elgiloy® cobalt-chromium-nickel alloy															
CB0040A 01 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	1.27	0.050	1.538	8.78	0.76	0.030	R
CB0040A 02 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	1.91	0.075	0.928	5.30	1.04	0.041	R
CB0040A 03 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	2.54	0.100	0.664	3.79	1.35	0.052	R
CB0040A 04 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	3.18	0.125	0.517	2.95	1.63	0.063	R
CB0040A 05 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	3.81	0.150	0.423	2.42	1.93	0.074	R
CB0040A 06 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	4.45	0.175	0.359	2.05	2.24	0.088	S
CB0040A 07 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	5.08	0.200	0.311	1.77	2.51	0.099	S
CB0040A 08 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	5.72	0.225	0.274	1.57	2.81	0.111	S
CB0040A 09 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	6.35	0.250	0.246	1.40	3.11	0.122	S
CB0045A 01 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	1.27	0.050	2.691	15.36	0.84	0.033	R
CB0045A 02 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	1.91	0.075	1.597	9.12	1.17	0.046	R
CB0045A 03 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	2.54	0.100	1.136	6.48	1.52	0.060	R
CB0045A 04 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	3.18	0.125	0.881	5.03	1.85	0.073	R
CB0045A 05 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	3.81	0.150	0.720	4.11	2.21	0.087	R
CB0045A 06 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	4.45	0.175	0.608	3.47	2.54	0.100	S
CB0045A 07 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	5.08	0.200	0.527	3.01	2.87	0.113	S
CB0045A 08 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	5.72	0.225	0.464	2.65	3.23	0.127	S
CB0045A 09 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	6.35	0.250	0.415	2.37	3.56	0.140	S
CB0050A 01 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	1.27	0.050	4.573	26.10	0.91	0.036	R
CB0050A 02 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	1.91	0.075	2.667	15.23	1.30	0.049	R
CB0050A 03 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	2.54	0.100	1.883	10.75	1.68	0.062	R
CB0050A 04 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	3.18	0.125	1.455	8.31	2.06	0.078	R
CB0050A 05 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	3.81	0.150	1.186	6.77	2.44	0.096	R
CB0050A 06 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	4.45	0.175	1.000	5.71	2.82	0.111	S
CB0050A 07 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	5.08	0.200	0.865	4.84	3.20	0.125	R
CB0050A 08 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	5.72	0.225	0.762	4.35	3.58	0.141	S
CB0050A 09 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	6.35	0.250	0.681	3.89	3.96	0.156	S
CB0055A 01 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	1.27	0.050	7.587	43.31	0.97	0.038	R
CB0055A 02 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	1.91	0.075	4.345	24.80	1.40	0.055	R
CB0055A 03 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	2.54	0.100	3.044	17.38	1.80	0.071	R
CB0055A 04 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	3.18	0.125	2.243	13.37	2.24	0.088	R
CB0055A 05 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	3.81	0.150	1.904	10.87	2.64	0.104	R
CB0055A 06 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	4.45	0.175	1.604	9.15	3.05	0.120	S
CB0055A 07 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	5.08	0.200	1.385	7.91	3.48	0.137	S
CB0055A 08 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	5.72	0.225	1.219	6.96	3.89	0.153	S
CB0055A 09 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	6.35	0.250	1.088	6.21	4.29	0.169	S
CB0040B 01 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	2.54	0.100	0.269	1.53	0.81	0.032	R
CB0040B 02 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	3.18	0.150	0.171	0.98	1.09	0.043	R
CB0040B 03 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	3.81	0.200	0.126	0.72	1.40	0.055	R
CB0040B 04 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	4.45	0.250	0.099	0.57	1.68	0.066	R
CB0040B 05 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	5.08	0.300	0.082	0.47	1.98	0.078	R
CB0040B 06 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	5.72	0.350	0.070	0.40	2.26	0.089	S
CB0040B 07 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	6.35	0.400	0.061	0.35	2.54	0.100	S
CB0040B 08 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	6.99	0.450	0.054	0.31	2.84	0.112	S
CB0040B 09 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	7.62	0.500	0.049	0.28	3.12	0.123	S
CB0045B 01 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	2.54	0.100	0.422	2.41	0.94	0.037	R
CB0045B 02 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	3.18	0.150	0.267	1.53	1.30	0.051	R
CB0045B 03 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	3.81	0.200	0.196	1.12	1.65	0.065	R
CB0045B 04 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	4.45	0.250	0.154	0.88	2.01	0.079	R
CB0045B 05 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	5.08	0.300	0.127	0.73	2.36	0.093	R
CB0045B 06 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	5.72	0.350	0.108	0.62	2.72	0.107	S
CB0045B 07 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	6.35	0.400	0.094	0.54	3.07	0.121	S
CB0045B 08 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	6.99	0.450	0.084	0.48	3.40	0.134	S
CB0050B 01 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	2.54	0.100	0.642	3.67	1.09	0.043	R
CB0050B 02 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	3.18	0.150	0.404	2.31	1.50	0.059	R
CB0050B 03 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	3.81	0.200	0.295	1.68	1.93	0.076	R
CB0050B 04 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	4.45	0.250	0.230	1.33	2.34	0.092	R
CB0050B 05 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	5.08	0.300	0.191	1.09	2.74	0.108	R
CB0050B 06 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	5.72	0.350	0.163	0.93	3.18	0.125	S
CB0050B 07 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	6.35	0.400	0.142	0.81	3.58	0.141	S
CB0050B 08 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	6.99	0.450	0.125	0.72	3.99	0.157	S
CB0050B 09 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	7.62	0.500	0.112	0.64	4.42	0.174	S

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ADDITIONAL INFORMATION

- 1 Bantam™ Mini compression springs combine impressive strength with corrosion resistance.
- 2 While our smallest Bantam™ Mini spring features a wire diameter size of 0.102mm (0.004ins), just slightly thicker than a human hair, the range extends up to 0.140mm (0.0055ins) in standard outside diameters of 0.635mm (0.025ins), 1.016mm (0.040ins) and 1.448mm (0.057ins).
- 3 To meet the performance needs of a diverse range of applications these springs are manufactured in Elgiloy®, a cobalt-chromium-nickel alloy known for its high strength. Elgiloy® is 10% stronger than Type 316 stainless steel and exhibits superior corrosion resistance. In addition it performs well in temperatures up to 454°C (850°F) and is non-magnetic.
- 4 Custom designs in Elgiloy® and other alloys are available.

BANTAM™ SPRINGS



● Elgiloy® cobalt-chromium-nickel alloy

LEE STOCK NUMBER	OUTSIDE DIAMETER		TO WORK IN HOLE DIAMETER MIN.		NOMINAL WIRE DIAMETER		APPROXIMATE LOAD AT SOLID HEIGHT		NOMINAL FREE LENGTH		SPRING RATE		APPROXIMATE SOLID HEIGHT		PRICE GROUP
	MM	IN	MM	IN	MM	IN	N	LB	MM	IN	N/MM	LB/IN	MM	IN	
CB0040A 01 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	1.27	0.050	1.538	8.78	0.76	0.030	R
CB0040A 02 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	1.91	0.075	0.928	5.30	1.04	0.041	R
CB0040A 03 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	2.54	0.100	0.664	3.79	1.35	0.053	R
CB0040A 04 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	3.18	0.125	0.517	2.95	1.63	0.064	R
CB0040A 05 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	3.81	0.150	0.423	2.42	1.93	0.076	R
CB0040A 06 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	4.45	0.175	0.359	2.05	2.24	0.088	S
CB0040A 07 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	5.08	0.200	0.311	1.77	2.51	0.099	S
CB0040A 08 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	5.72	0.225	0.274	1.57	2.82	0.111	S
CB0040A 09 E	0.64	.025	0.81	.032	.10	.0040	.796	.179	6.35	0.250	0.246	1.40	3.10	0.122	S
CB0045A 01 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	1.27	0.050	2.691	15.36	0.84	0.033	R
CB0045A 02 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	1.91	0.075	1.597	9.12	1.17	0.046	R
CB0045A 03 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	2.54	0.100	1.136	6.48	1.52	0.060	R
CB0045A 04 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	3.18	0.125	0.881	5.03	1.85	0.073	R
CB0045A 05 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	3.81	0.150	0.720	4.11	2.21	0.087	R
CB0045A 06 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	4.45	0.175	0.608	3.47	2.54	0.100	S
CB0045A 07 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	5.08	0.200	0.527	3.01	2.87	0.113	S
CB0045A 08 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	5.72	0.225	0.464	2.65	3.23	0.127	S
CB0045A 09 E	0.64	.025	0.81	.032	.11	.0045	1.160	.261	6.35	0.250	0.415	2.37	3.56	0.140	S
CB0050A 01 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	1.27	0.050	4.573	26.10	0.91	0.036	R
CB0050A 02 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	1.91	0.075	2.667	15.23	1.30	0.051	R
CB0050A 03 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	2.54	0.100	1.883	10.75	1.68	0.066	R
CB0050A 04 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	3.18	0.125	1.455	8.31	2.06	0.081	R
CB0050A 05 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	3.81	0.150	1.186	6.77	2.44	0.096	R
CB0050A 06 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	4.45	0.175	1.000	5.71	2.82	0.111	S
CB0050A 07 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	5.08	0.200	0.865	4.94	3.20	0.126	S
CB0050A 08 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	5.72	0.225	0.762	4.35	3.58	0.141	S
CB0050A 09 E	0.64	.025	0.81	.032	.13	.0050	1.632	.367	6.35	0.250	0.681	3.89	3.96	0.156	S
CB0055A 01 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	1.27	0.050	7.587	43.31	0.97	0.038	R
CB0055A 02 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	1.91	0.075	4.345	24.80	1.40	0.055	R
CB0055A 03 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	2.54	0.100	3.044	17.38	1.80	0.071	R
CB0055A 04 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	3.18	0.125	2.343	13.37	2.24	0.088	R
CB0055A 05 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	3.81	0.150	1.904	10.87	2.64	0.104	R
CB0055A 06 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	4.45	0.175	1.604	9.15	3.05	0.120	S
CB0055A 07 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	5.08	0.200	1.385	7.91	3.48	0.137	S
CB0055A 08 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	5.72	0.225	1.219	6.96	3.89	0.153	S
CB0055A 09 E	0.64	.025	0.81	.032	.14	.0055	2.227	.501	6.35	0.250	1.088	6.21	4.29	0.169	S
CB0040B 01 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	2.54	0.100	0.269	1.53	0.81	0.032	R
CB0040B 02 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	3.81	0.150	0.171	0.98	1.09	0.043	R
CB0040B 03 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	5.08	0.200	0.126	0.72	1.40	0.055	R
CB0040B 04 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	6.35	0.250	0.099	0.57	1.68	0.066	R
CB0040B 05 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	7.62	0.300	0.082	0.47	1.98	0.078	R
CB0040B 06 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	8.89	0.350	0.070	0.40	2.26	0.089	S
CB0040B 07 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	10.16	0.400	0.061	0.35	2.54	0.100	S
CB0040B 08 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	11.43	0.450	0.054	0.31	2.84	0.112	S
CB0040B 09 E	1.02	.040	1.19	.047	.10	.0040	.464	.104	12.70	0.500	0.049	0.28	3.12	0.123	S
CB0045B 01 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	2.54	0.100	0.422	2.41	0.94	0.037	R
CB0045B 02 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	3.81	0.150	0.267	1.53	1.30	0.051	R
CB0045B 03 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	5.08	0.200	0.196	1.12	1.65	0.065	R
CB0045B 04 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	6.35	0.250	0.154	0.88	2.01	0.079	R
CB0045B 05 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	7.62	0.300	0.127	0.73	2.36	0.093	R
CB0045B 06 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	8.89	0.350	0.108	0.62	2.72	0.107	S
CB0045B 07 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	10.16	0.400	0.094	0.54	3.07	0.121	S
CB0045B 08 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	11.43	0.450	0.084	0.48	3.40	0.134	S
CB0045B 09 E	1.02	.040	1.19	.047	.11	.0045	.670	.151	12.70	0.500	0.075	0.43	3.76	0.148	S
CB0050B 01 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	2.54	0.100	0.642	3.67	1.09	0.043	R
CB0050B 02 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	3.81	0.150	0.404	2.31	1.50	0.059	R
CB0050B 03 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	5.08	0.200	0.295	1.68	1.93	0.076	R
CB0050B 04 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	6.35	0.250	0.230	1.33	2.34	0.092	R
CB0050B 05 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	7.62	0.300	0.191	1.09	2.74	0.108	R
CB0050B 06 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	8.89	0.350	0.163	0.93	3.18	0.125	S
CB0050B 07 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	10.16	0.400	0.142	0.81	3.58	0.141	S
CB0050B 08 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	11.43	0.450	0.125	0.72	3.99	0.157	S
CB0050B 09 E	1.02	.040	1.19	.047	.13	.0050	.932	.210	12.70	0.500	0.112	0.64	4.42	0.174	S



BANTAM™ SPRINGS

● Elgiloy® cobalt-chromium-nickel alloy

LEE STOCK NUMBER	OUTSIDE DIAMETER		TO WORK IN HOLE DIAMETER MIN.		NOMINAL WIRE DIAMETER		APPROXIMATE LOAD AT SOLID HEIGHT		NOMINAL FREE LENGTH		SPRING RATE		APPROXIMATE SOLID HEIGHT		PRICE GROUP
	MM	IN	MM	IN	MM	IN	N	LB	MM	IN	N/MM	LB/IN	MM	IN	
CB0055B 01 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	2.54	0.100	0.954	5.44	1.22	0.048	R
CB0055B 02 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	3.81	0.150	0.597	3.41	1.70	0.067	R
CB0055B 03 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	5.08	0.200	0.434	2.48	2.18	0.086	R
CB0055B 04 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	6.35	0.250	0.341	1.95	2.67	0.105	R
CB0055B 05 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	7.62	0.300	0.281	1.60	3.15	0.124	R
CB0055B 06 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	8.89	0.350	0.239	1.36	3.61	0.142	S
CB0055B 07 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	10.16	0.400	0.208	1.19	4.09	0.161	S
CB0055B 08 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	11.43	0.450	0.184	1.05	4.57	0.180	S
CB0055B 09 E	1.02	.040	1.19	.047	.14	.0055	1.259	.283	12.70	0.500	0.165	0.94	5.05	0.199	S
CB0040C 01 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	3.18	0.125	0.125	0.71	0.66	0.026	R
CB0040C 02 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	4.78	0.188	0.080	0.46	0.84	0.033	R
CB0040C 03 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	6.35	0.250	0.059	0.34	1.02	0.040	R
CB0040C 04 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	7.95	0.313	0.047	0.27	1.22	0.048	R
CB0040C 05 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	9.53	0.375	0.039	0.22	1.40	0.055	R
CB0040C 06 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	11.13	0.438	0.033	0.19	1.60	0.063	S
CB0040C 07 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	12.70	0.500	0.029	0.17	1.78	0.070	S
CB0040C 08 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	14.30	0.563	0.026	0.15	1.98	0.078	S
CB0040C 09 E	1.45	.057	1.60	.063	.10	.0040	.315	.071	15.88	0.625	0.023	0.13	2.16	0.085	S
CB0045C 01 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	3.18	0.125	0.188	1.07	0.76	0.030	R
CB0045C 02 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	4.78	0.188	0.120	0.69	1.02	0.040	R
CB0045C 03 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	6.35	0.250	0.089	0.51	1.24	0.049	R
CB0045C 04 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	7.95	0.313	0.070	0.40	1.47	0.058	R
CB0045C 05 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	9.53	0.375	0.058	0.33	1.70	0.067	R
CB0045C 06 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	11.13	0.438	0.049	0.28	1.96	0.077	S
CB0045C 07 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	12.70	0.500	0.043	0.25	2.18	0.086	S
CB0045C 08 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	14.30	0.563	0.038	0.22	2.41	0.095	S
CB0045C 09 E	1.45	.057	1.60	.063	.11	.0045	.453	.102	15.88	0.625	0.034	0.20	2.67	0.105	S
CB0050C 01 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	3.18	0.125	0.274	1.57	0.89	0.035	R
CB0050C 02 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	4.78	0.188	0.174	1.00	1.17	0.046	R
CB0050C 03 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	6.35	0.250	0.128	0.73	1.45	0.057	R
CB0050C 04 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	7.95	0.313	0.101	0.58	1.75	0.069	R
CB0050C 05 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	9.53	0.375	0.084	0.48	2.03	0.080	R
CB0050C 06 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	11.13	0.438	0.071	0.41	2.31	0.091	S
CB0050C 07 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	12.70	0.500	0.062	0.36	2.62	0.103	S
CB0050C 08 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	14.30	0.563	0.055	0.31	2.90	0.114	S
CB0050C 09 E	1.45	.057	1.60	.063	.13	.0050	.628	.141	15.88	0.625	0.049	0.28	3.18	0.125	S
CB0055C 01 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	3.18	0.125	0.389	2.22	1.02	0.040	R
CB0055C 02 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	4.78	0.188	0.246	1.41	1.35	0.053	R
CB0055C 03 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	6.35	0.250	0.181	1.03	1.68	0.066	R
CB0055C 04 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	7.95	0.313	0.142	0.81	2.03	0.080	R
CB0055C 05 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	9.53	0.375	0.118	0.67	2.36	0.093	R
CB0055C 06 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	11.13	0.438	0.100	0.57	2.72	0.107	S
CB0055C 07 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	12.70	0.500	0.087	0.50	3.05	0.120	S
CB0055C 08 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	14.30	0.563	0.077	0.44	3.38	0.133	S
CB0055C 09 E	1.45	.057	1.60	.063	.14	.0055	.843	.190	15.88	0.625	0.069	0.40	3.73	0.147	S