

EMI Suppression Beads

Listed in ascending order of "B" dimension.

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Typical Impedance(Ω)¹

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2673030101	1.22 - 0.13 .045	0.8+0.1 .033	5.3 - 0.45 .200	.01	4.1	14	21	-	-
2673025301	1.25 - 0.1 .047	0.8+0.1 .033	3.8±0.2 .150	.01	4.0	10	15	-	-
2673010101	1.95 - 0.25 .072	0.8+0.1 .033	10.0 - 0.4 .384	.08	3.3	55	77	-	-
2643706001	3.5±0.25 .138	0.8+0.1 .033	2.7 - 0.45 .097	.06	2.5	-	26	45	-
2673025001	1.42±0.05 .056	0.85+0.1 .034	3.8±0.2 .150	.02	3.6	12.5	20	-	-
2643020501	1.65±0.025 .065	0.85+0.1 .034	3.68 - 0.25 .140	.02	3.4	-	17	31	-
2673004801	2.1 - 0.15 .080	0.85+0.1 .034	2.9 - 0.45 .105	.03	3.1	20	28	-	-
2643004801	2.1 - 0.15 .080	0.85+0.1 .034	2.9 - 0.45 .105	.03	3.1	-	18	31	-
2673028602	2.13 - 0.1 .082	0.85+0.1 .034	5.6±0.15 .220	.09	2.7	31	50	-	-
2673012401	1.55 - 0.1 .059	0.95+0.15 .040	4.2 - 0.25 .160	.02	3.3	11	19	-	-
2673002201	1.95 - 0.2 .072	1.05+0.1 .043	10.4±0.25 .410	.08	2.9	38	55	-	-
2643002201	1.95 - 0.2 .072	1.05+0.1 .043	10.4±0.25 .410	.08	2.9	-	34	58	-
2673000501	2.0 - 0.15 .076	1.05+0.1 .043	1.65 - 0.25 .060	.01	2.8	7.5	12	-	-
2643000501	2.0 - 0.15 .076	1.05+0.1 .043	1.65 - 0.25 .060	.01	2.8	-	9	22	-
2673000201	2.0 - 0.15 .076	1.05+0.1 .043	3.8±0.25 .150	.03	2.8	18	27	-	-
2643000201	2.0 - 0.15 .076	1.05+0.1 .043	3.8±0.25 .150	.03	2.8	-	16	31	-
2673000101	3.5±0.2 .138	1.3±0.1 .051	3.25±0.25 .128	.10	2.0	25	35	-	-
2643000101	3.5±0.2 .138	1.3±0.1 .051	3.25±0.25 .128	.10	2.0	-	26	40	-
2661000101	3.5±0.2 .138	1.3±0.1 .051	3.25±0.25 .128	.10	2.0	-	-	27.5	43
2673000301	3.5±0.2 .138	1.3±0.1 .051	6.0±0.25 .236	.18	2.0	44	62	-	-
2643000301	3.5±0.2 .138	1.3±0.1 .051	6.0±0.25 .236	.18	2.0	-	46	60	-

**Bold part numbers designate preferred parts.

*This dimension may be modified to suit specific applications.

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Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2643001301	3.55±0.15 .140	1.65±0.25 .070	5.95±0.25 .234	.18	1.6	-	31	48	-
2673015301	4.1 - 0.25 .156	1.8±0.15 .071	6.85±0.25 .270	.26	1.5	41	54	-	-
2643005701	5.1±0.25 .200	2.3±0.2 .090	12.7±0.35 .500	.81	1.2	-	78	120	-
2673000801	7.5±0.25 .296	2.25±0.25 .094	7.55±0.25 .297	1.0	1.0	48	52	-	-
2643000801	7.5±0.25 .296	2.25±0.25 .094	7.55±0.25 .297	1.0	1.0	-	63	92	-
2643300101	7.6±0.25 .300	2.25±0.25 .094	15.1±0.75 .595	2.1	1.0	-	115	200	-
2673200201	5.2±0.15 .205	2.65±0.25 .105	20.6±0.75 .812	1.3	1.1	88	125	-	-
2673003201	5.6 - 0.5 .210	2.65±0.25 .105	12.7±0.5 .500	.87	1.1	59	85	-	-
2643003201	5.6 - 0.5 .210	2.65±0.25 .105	12.7±0.5 .500	.87	1.1	-	63	88	-
2643250402	6.35±0.15 .250	2.95±0.45 .125	12.7±0.5 .500	1.2	.91	-	69	102	-
2643250302	6.35±0.15 .250	2.95±0.45 .125	15.9±0.5 .625	1.5	.91	-	85	122	-
2631250202	6.35±0.15 .250	2.95±0.45 .125	25.4±0.75 1.000	2.5	.91	90	138	230	-
2643250202	6.35±0.15 .250	2.95±0.45 .125	25.4±0.75 1.000	2.5	.91	-	135	200	-
2643375102	9.5±0.25 .375	4.5±0.75 .192	6.35±0.35 .250	1.4	.60	-	35	50	-
2643375002	9.5±0.25 .375	4.5±0.75 .192	14.5±0.6 .570	3.1	.60	-	78	115	-
2643006302	9.5±0.25 .375	4.75±0.3 .193	10.4±0.25 .410	2.2	.60	-	53	80	-
2643023402	9.5±0.25 .375	4.75±0.3 .193	15.9±0.45 .625	3.4	.60	-	83	120	-
2643023002	9.5±0.25 .375	4.75±0.3 .193	19.05±0.7 .750	4.1	.60	-	100	145	-
2673002402	9.65±0.25 .380	5.0±0.2 .197	5.05 - 0.45 .190	1.1	.59	19	20	-	-
2643002402	9.65±0.25 .380	5.0±0.2 .197	5.05 - 0.45 .190	1.1	.59	-	26	43	-
2643012702	9.65±0.25 .380	6.35±0.15 .250	7.35±0.25 .290	1.3	.51	-	24	38	-

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P.O. Box J, One Commercial Row, Wallkill, NY 12589-0288

Fair-Rite Products Corp.

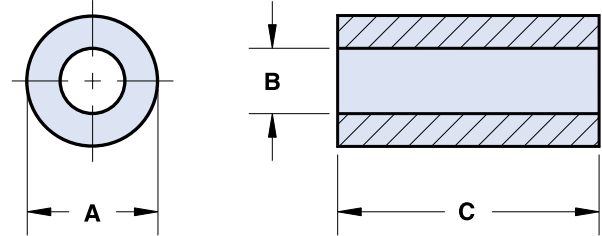
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(888) 324-7748 (888) 337-7483 Note: (914) Area Code has changed to (845).

Round Cable EMI Suppression Cores

Listed in ascending order of "B" dimension.

Fair-Rite offers a broad selection of round cable EMI suppression cores with guaranteed impedance specifications over a wide frequency range.

- The "H" column gives for each core size the calculated dc bias field in oersted for 1 turn and 1 ampere direct current. The actual dc H field in the application is this value of H times the actual NI (ampere - turn) product. For the effect of the dc bias on the impedance of the core material, see the graphs on pages 179-180, Figures 16-20.



- For typical impedance vs. frequency curves, see Figures 1-5.
- Round cable EMI suppression cores are controlled for impedance limits only. They are tested for impedance with a single turn, using the Hewlett Packard HP 4193A Vector Impedance Meter for beads in 31 and 43 material and the HP 4191A RF Impedance Analyzer for 61 material beads.
- For smaller size cores, please refer to our EMI Suppression Beads section found on page 24 of this catalog.
- For any round cable EMI suppression core requirement not listed in the catalog, please contact our customer service group for availability and pricing.
- The Expanded Cable and Connector EMI Suppression Kit (part number 0199000005) contains a selection of these suppression cores. (See page 92).

Dimensions (Bold numbers are in millimeters, light numbers are nominal in inches.)

Typical Impedance(Ω)¹

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2631480102	12.3±0.4 .485	4.95±0.25 .200	12.7±0.4 .500	4.8	.52	58	88	140	-
2643480102	12.3±0.4 .485	4.95±0.25 .200	12.7±0.4 .500	4.8	.52	-	84	121	-
2631480002	12.3±0.4 .485	4.95±0.25 .200	25.4±0.75 1.000	9.5	.52	115	175	295	-
2643480002	12.3±0.4 .485	4.95±0.25 .200	25.4±0.75 1.000	9.5	.52	-	165	236	-
2643540702	14.3±0.45 .562	6.35±0.25 .250	5.3 - 0.45 .200	2.6	.43	-	30	50	-
2643540102	14.3±0.45 .562	6.35±0.25 .250	10.15±0.4 .400	5.1	.43	-	61	89	-
2631540202	14.3±0.45 .562	6.35±0.25 .250	13.8 - 0.7 .530	6.8	.43	58	88	140	-
2643540202	14.3±0.45 .562	6.35±0.25 .250	13.8 - 0.7 .530	6.8	.43	-	78	118	-
2661540202	14.3±0.45 .562	6.35±0.25 .250	13.8 - 0.7 .530	6.8	.43	-	-	125	180
2631540002	14.3±0.45 .562	6.35±0.25 .250	28.6±0.75 1.125	14	.43	119	181	300	-
2643540002	14.3±0.45 .562	6.35±0.25 .250	28.6±0.75 1.125	14	.43	-	171	250	-

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Typical Impedance(Ω)¹

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2661540002	14.3±0.45 .562	6.35±0.25 .250	28.6±0.75 1.125	14	.43	-	-	250	310
2643540302	14.3±0.45 .562	7.1±0.25 .280	15.25±0.4 .600	7.5	.41	-	75	118	-
2643800302	12.7±0.25 .500	7.15±0.2 .282	4.9 - 0.25 .188	1.7	.43	-	26	42	-
2643540402	14.3±0.45 .562	7.25±0.15 .286	28.6±0.75 1.125	14	.40	-	143	215	-
2643801102	12.7±0.25 .500	7.9±0.2 .312	6.35±0.2 .250	2.1	.40	-	26	41	-
2643801902	12.7±0.25 .500	7.9±0.2 .312	12.7±0.4 .500	4.3	.40	-	44	73	-
2631625002	16.25 - 0.75 .625	7.9±0.25 .312	14.3±0.35 .562	8.7	.36	53	75	130	-
2643625002	16.25 - 0.75 .625	7.9±0.25 .312	14.3±0.35 .562	8.7	.36	-	70	113	-
2631625102	16.25 - 0.75 .625	7.9±0.25 .312	28.6±0.75 1.125	17	.36	103	156	260	-
2643625102	16.25 - 0.75 .625	7.9±0.25 .312	28.6±0.75 1.125	17	.36	-	130	213	-
2643625202	16.25 - 0.75 .625	7.9±0.25 .312	50.8±1.0 2.000	31	.36	-	235	384	-
2643665902	17.45±0.4 .687	9.5±0.25 .375	6.35±0.25 .250	4.5	.32	-	26	44	-
2643665802	17.45±0.4 .687	9.5±0.25 .375	12.7±0.5 .500	9.0	.32	-	55	88	-
2631665702	17.45±0.4 .687	9.5±0.25 .375	28.6±0.75 1.125	20	.32	89	138	225	-
2643665702	17.45±0.4 .687	9.5±0.25 .375	28.6±0.75 1.125	20	.32	-	125	200	-
2661665702	17.45±0.4 .687	9.5±0.25 .375	28.6±0.75 1.125	20	.32	-	-	156	260
2631626302	19.0 - 0.65 .735	10.15±0.25 .400	14.65 - 0.75 .562	12	.29	44	69	115	-
2643626302	19.0 - 0.65 .735	10.15±0.25 .400	14.65 - 0.75 .562	12	.29	-	63	96	-
2631626402	19.0 - 0.65 .735	10.15±0.25 .400	28.6±0.75 1.125	23	.29	89	138	225	-
2643626402	19.0 - 0.65 .735	10.15±0.25 .400	28.6±0.75 1.125	23	.29	-	128	196	-
2643626502	19.0 - 0.65 .735	10.15±0.25 .400	50.8±1.0 2.000	41	.29	-	225	348	-
2643801502	25.4±0.65 1.000	12.7±0.35 .500	6.35±0.25 .250	9.9	.23	-	34	53	-

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Typical Impedance(Ω)¹

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2643102402	25.9±0.75 1.020	12.8±0.25 .505	21.3±0.5 .840	35	.22	-	110	183	-
2661102402	25.9±0.75 1.020	12.8±0.25 .505	21.3±0.5 .840	35	.22	-	-	169	275
2631102002	25.9±0.75 1.020	12.8±0.25 .505	28.6±0.8 1.125	46	.22	103	156	260	-
2643102002	25.9±0.75 1.020	12.8±0.25 .505	28.6±0.8 1.125	46	.22	-	145	235	-
2661102002	25.9±0.75 1.020	12.8±0.25 .505	28.6±0.8 1.125	46	.22	-	-	225	310
2643800602	20.95±0.4 .825	13.2±0.3 .520	6.35±0.2 .250	5.8	.24	-	24	44	-
2643800502	20.95±0.4 .825	13.2±0.3 .520	11.9±0.4 .468	11	.24	-	45	82	-
2643801802	22.1±0.4 .870	13.7±0.3 .540	6.35±0.2 .250	6.5	.23	-	25	45	-
2631101902	28.5±0.6 1.122	13.8±0.3 .543	28.6±0.8 1.125	56	.21	106	163	270	-
2643101902	28.5±0.6 1.122	13.8±0.3 .543	28.6±0.8 1.125	56	.21	-	145	230	-
2643801402	25.4±0.6 1.000	15.5±0.5 .610	8.1±0.3 .320	11	.20	-	35	55	-
2643806402	25.4±0.6 1.000	15.5±0.5 .610	12.7±0.4 .500	17	.20	-	53	90	-
2643251002	39.1±0.75 1.540	16.75±0.5 .660	22.2±0.8 .875	84	.16	-	135	230	-
2643801002	29.0±0.75 1.142	19.0±0.5 .748	7.5±0.25 .295	12	.17	-	28	47	-
2643801202	29.0±0.75 1.142	19.0±0.5 .748	13.85±0.4 .545	23	.17	-	51	92	-
2643804502	31.1±0.75 1.225	19.05±0.5 .750	16.3 - 0.75 .627	33	.17	-	60	100	-
2643802702	35.55±0.75 1.400	22.85±0.5 .900	12.7±0.5 .500	32	.14	-	48	80	-
2643626102	50.8±1.0 2.000	25.4±0.5 1.000	25.4±0.75 1.000	158	.11	-	128	224	-
2643625902	50.8±1.0 2.000	25.4±0.5 1.000	28.7±0.75 1.130	178	.11	-	145	254	-
2643626202	50.8±1.0 2.000	25.4±0.5 1.000	38.1±0.75 1.500	237	.11	-	193	336	-
2643626002	50.8±1.0 2.000	25.4±0.5 1.000	50.8±1.0 2.000	315	.11	-	240	360	-
2643803802	61.0±1.3 2.400	35.55±0.75 1.400	12.7±0.5 .500	105	.09	-	58	108	-

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