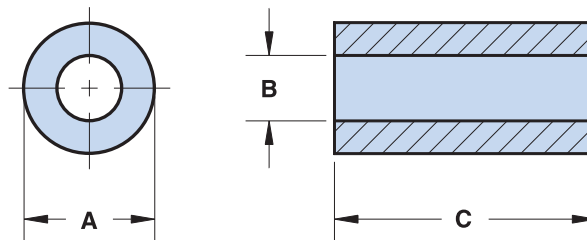


EMI Suppression Beads

Listed in ascending order of "B" dimension.

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

- Beads with a "1" as the last digit of the part number are not burnished, those with the last digit "2" are supplied burnished to break the sharp edges.
- Beads can be supplied Parylene coated upon request. The last digit of the Parylene coated part number is a "4". The minimum coating thickness for beads is **0.005mm** (.0002"). See page 159 for material characteristics of Parylene C.
- The "H" column gives for each bead 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 bead material, see the graphs on pages 179-180, Figures 16-20.
- For typical impedance vs. frequency curves for these parts, see Figures 1-6.
- Beads 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 73, 31, and 43 material and the HP 4191A RF Impedance Analyzer for 61 material beads.
- For larger size cores, please refer to our Round Cable EMI Suppression Cores section found on pages 94-97.
- For any EMI suppression bead requirement not listed in the catalog, please contact our customer service group for availability and pricing.
- The EMI Suppression Bead Kit (part number 0199000019) contains a selection of these 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
2673901301	0.95 - 0.05 .036	0.45+0.1 .020	3.8±0.2 .150	.01	6.0	16	24	—	—
2673903301	1.0 - 0.05 .038	0.45+0.15 .021	5.6±0.25 .220	.01	5.7	24	35	—	—
2673004601	1.1 - 0.1 .041	0.65+0.1 .028	4.1 - 0.3 .156	.01	4.7	12.5	19	—	—
2643004601	1.1 - 0.1 .041	0.65+0.1 .028	4.1 - 0.3 .156	.01	4.7	—	12.5	31	—
2673004701	1.45 - 0.15 .054	0.7+0.1 .029	2.3±0.15 .090	.01	4.0	12.5	17	—	—
2643004701	1.45 - 0.15 .054	0.7+0.1 .029	2.3±0.15 .090	.01	4.0	—	12.5	26	—
2643004101	3.5±0.2 .138	0.75+0.1 .031	4.45±0.35 .175	.11	2.6	—	48	70	—
2643004201	3.5±0.2 .138	0.75+0.1 .031	8.9±0.5 .350	.22	2.6	—	97	140	—

**Bold part numbers designate preferred parts.

*This dimension may be modified to suit specific applications.

¹Guaranteed Z Min is Z Typ -20%

Fair-Rite Products Corp.

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

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

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.

¹ Guaranteed Z Min is Z Typ -20%

*This dimension may be modified to suit specific applications.

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
2661000301	3.5±0.2 .138	1.3±0.1 .051	6.0±0.25 .236	.18	2.0	—	—	50	70
2673000701	3.5±0.2 .138	1.3±0.1 .051	12.7±0.35 .500	.38	2.0	87	125	—	—
2643000701	3.5±0.2 .138	1.3±0.1 .051	12.7±0.35 .500	.38	2.0	—	89	125	—
2661000701	3.5±0.2 .138	1.3±0.1 .051	12.7±0.35 .500	.38	2.0	—	—	125	170
2643200101	5.1±0.25 .200	1.45±0.25 .062	3.4 - 0.45 .125	.19	1.5	—	30	41	—
2673022401	5.1±0.25 .200	1.45±0.25 .062	6.35±0.25 .250	.38	1.5	54	58	—	—
2643022401	5.1±0.25 .200	1.45±0.25 .062	6.35±0.25 .250	.38	1.5	—	55	82	—
2661022401	5.1±0.25 .200	1.45±0.25 .062	6.35±0.25 .250	.38	1.5	—	—	56	85
2673021801	5.1±0.25 .200	1.45±0.25 .062	11.1±0.35 .437	.67	1.5	94	95	—	—
2643021801	5.1±0.25 .200	1.45±0.25 .062	11.1±0.35 .437	.67	1.5	—	96	131	—
2661021801	5.1±0.25 .200	1.45±0.25 .062	11.1±0.35 .437	.67	1.5	—	—	119	163
2643023801	5.1±0.25 .200	1.45±0.25 .062	22.85±0.75 .900	1.4	1.5	—	192	266	—
2661023801	5.1±0.25 .200	1.45±0.25 .062	22.85±0.75 .900	1.4	1.5	—	—	238	326
2643001501	3.5±0.2 .138	1.6±0.1 .063	3.25±0.25 .128	.10	1.7	—	21	35	—
2643025601	3.5±0.2 .138	1.6±0.1 .063	6.0±0.25 .236	.18	1.7	—	38	55	—
2643023201	2.85±0.1 .112	1.65±0.15 .068	3.75±0.25 .147	.06	1.8	—	15	30	—
2673018001	2.85±0.1 .112	1.65±0.15 .068	6.65±0.25 .262	.12	1.8	29	41	—	—
2673004901	2.85±0.1 .112	1.65±0.15 .068	10.45±0.25 .410	.18	1.8	40	58	—	—
2643013801	3.5±0.2 .138	1.65±0.25 .070	4.05±0.25 .160	.12	1.6	—	24	38	—
2673001601	3.55±0.15 .140	1.65±0.25 .070	3.3 - 0.4 .122	.09	1.6	16	24	—	—
2643001601	3.55±0.15 .140	1.65±0.25 .070	3.3 - 0.4 .122	.09	1.6	—	19	30	—

**Bold part numbers designate preferred parts.

¹ Guaranteed Z Min is Z Typ -20%

*This dimension may be modified to suit specific applications.

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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
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	—

**Bold part numbers designate preferred parts.

¹Guaranteed Z Min is Z Typ -20%

*This dimension may be modified to suit specific applications.

EMI Suppression Beads

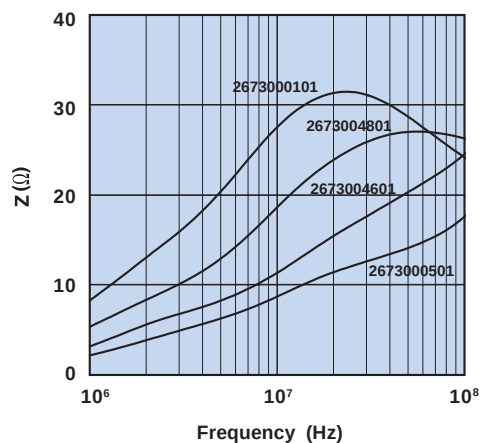


Figure 1 Impedance vs. Frequency for 73 material EMI suppression beads.

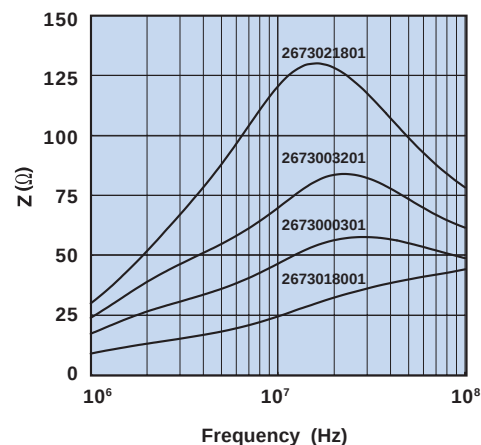


Figure 2 Impedance vs. Frequency for 73 material EMI suppression beads.

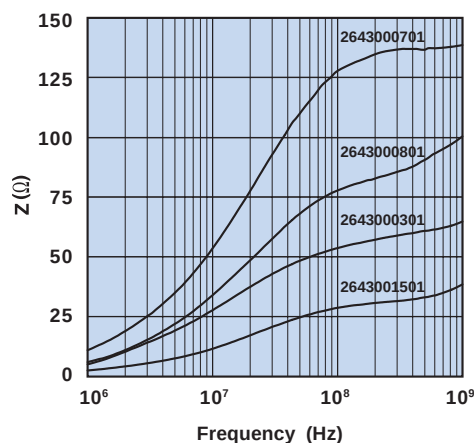


Figure 3 Impedance vs. Frequency for 43 material EMI suppression beads.

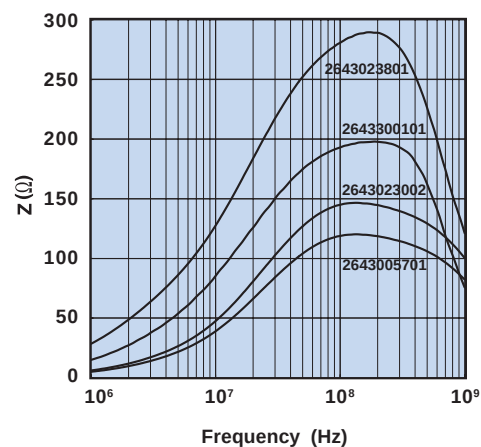


Figure 4 Impedance vs. Frequency for 43 material EMI suppression beads.

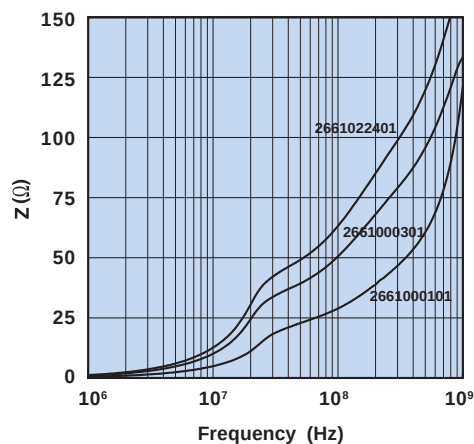


Figure 5 Impedance vs. Frequency for 61 material EMI suppression beads.

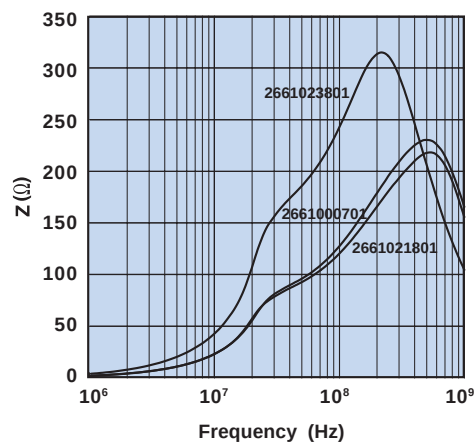


Figure 6 Impedance vs. Frequency for 61 material EMI suppression beads.