

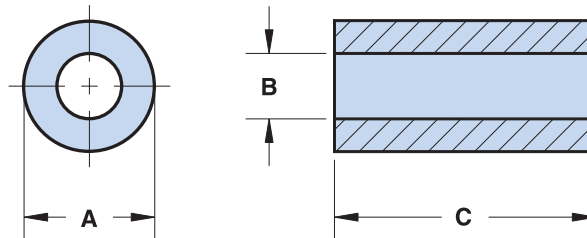
# EMI Suppression Beads

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( $\Omega$ )<sup>1</sup>

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2673901301	<b>0.95 - 0.05</b> .036	<b>0.45+0.1</b> .020	<b>3.8±0.2</b> .150	.01	6.0	16	24	-	-
2673903301	<b>1.0 - 0.05</b> .038	<b>0.45+0.15</b> .021	<b>5.6±0.25</b> .220	.01	5.7	24	35	-	-
<b>2673004601</b>	<b>1.1 - 0.1</b> .041	<b>0.65+0.1</b> .028	<b>4.1 - 0.3</b> .156	.01	4.7	12.5	19	-	-
2643004601	<b>1.1 - 0.1</b> .041	<b>0.65+0.1</b> .028	<b>4.1 - 0.3</b> .156	.01	4.7	-	12.5	31	-
2673004701	<b>1.45 - 0.15</b> .054	<b>0.7+0.1</b> .029	<b>2.3±0.15</b> .090	.01	4.0	12.5	17	-	-
2643004701	<b>1.45 - 0.15</b> .054	<b>0.7+0.1</b> .029	<b>2.3±0.15</b> .090	.01	4.0	-	12.5	26	-
<b>2643004101</b>	<b>3.5±0.2</b> .138	<b>0.75+0.1</b> .031	<b>4.45±0.35</b> .175	.11	2.6	-	48	70	-
<b>2643004201</b>	<b>3.5±0.2</b> .138	<b>0.75+0.1</b> .031	<b>8.9±0.5</b> .350	.22	2.6	-	97	140	-

\*\*Bold part numbers designate preferred parts.

\*This dimension may be modified to suit specific applications.

<sup>1</sup> Guaranteed Z Min is Z Typ -20%

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Listed in ascending order of "B" dimension.

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

Typical Impedance( $\Omega$ )<sup>1</sup>

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

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Listed in ascending order of "B" dimension.

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

Typical Impedance( $\Omega$ )<sup>1</sup>

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2661000301	<b>3.5±0.2</b> .138	<b>1.3±0.1</b> .051	<b>6.0±0.25</b> .236	.18	2.0	-	-	50	70
2673000701	<b>3.5±0.2</b> .138	<b>1.3±0.1</b> .051	<b>12.7±0.35</b> .500	.38	2.0	87	125	-	-
2643000701	<b>3.5±0.2</b> .138	<b>1.3±0.1</b> .051	<b>12.7±0.35</b> .500	.38	2.0	-	89	125	-
2661000701	<b>3.5±0.2</b> .138	<b>1.3±0.1</b> .051	<b>12.7±0.35</b> .500	.38	2.0	-	-	125	170
2643200101	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>3.4 - 0.45</b> .125	.19	1.5	-	30	41	-
2673022401	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>6.35±0.25</b> .250	.38	1.5	54	58	-	-
2643022401	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>6.35±0.25</b> .250	.38	1.5	-	55	82	-
2661022401	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>6.35±0.25</b> .250	.38	1.5	-	-	56	85
2673021801	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>11.1±0.35</b> .437	.67	1.5	94	95	-	-
2643021801	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>11.1±0.35</b> .437	.67	1.5	-	96	131	-
2661021801	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>11.1±0.35</b> .437	.67	1.5	-	-	119	163
2643023801	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>22.85±0.75</b> .900	1.4	1.5	-	192	266	-
2661023801	<b>5.1±0.25</b> .200	<b>1.45±0.25</b> .062	<b>22.85±0.75</b> .900	1.4	1.5	-	-	238	326
<b>2643001501</b>	<b>3.5±0.2</b> .138	<b>1.6±0.1</b> .063	<b>3.25±0.25</b> .128	.10	1.7	-	21	35	-
2643025601	<b>3.5±0.2</b> .138	<b>1.6±0.1</b> .063	<b>6.0±0.25</b> .236	.18	1.7	-	38	55	-
2643023201	<b>2.85±0.1</b> .112	<b>1.65±0.15</b> .068	<b>3.75±0.25</b> .147	.06	1.8	-	15	30	-
2673018001	<b>2.85±0.1</b> .112	<b>1.65±0.15</b> .068	<b>6.65±0.25</b> .262	.12	1.8	29	41	-	-
2673004901	<b>2.85±0.1</b> .112	<b>1.65±0.15</b> .068	<b>10.45±0.25</b> .410	.18	1.8	40	58	-	-
2643013801	<b>3.5±0.2</b> .138	<b>1.65±0.25</b> .070	<b>4.05±0.25</b> .160	.12	1.6	-	24	38	-
2673001601	<b>3.55±0.15</b> .140	<b>1.65±0.25</b> .070	<b>3.3 - 0.4</b> .122	.09	1.6	16	24	-	-
2643001601	<b>3.55±0.15</b> .140	<b>1.65±0.25</b> .070	<b>3.3 - 0.4</b> .122	.09	1.6	-	19	30	-

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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( $\Omega$ )<sup>1</sup>

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

\*\*Bold part numbers designate preferred parts.

<sup>1</sup>Guaranteed Z Min is Z Typ -20%

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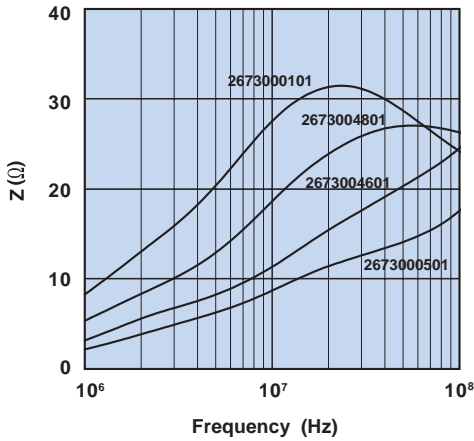
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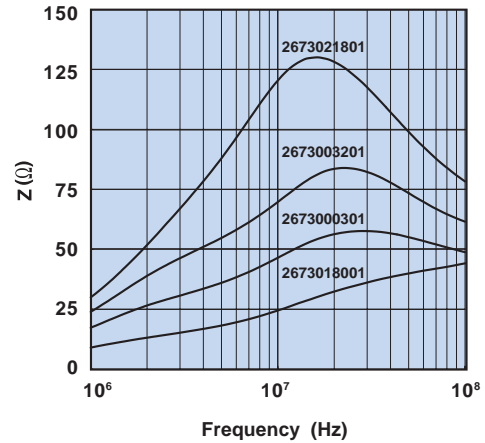
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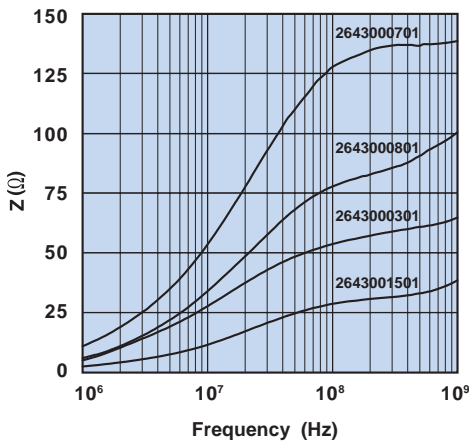
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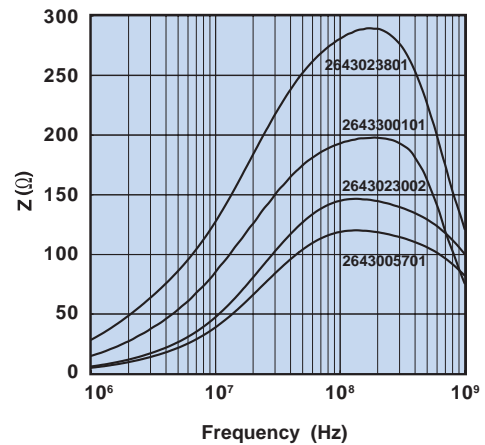
**Figure 1** Impedance vs. Frequency for 73 material EMI suppression beads.



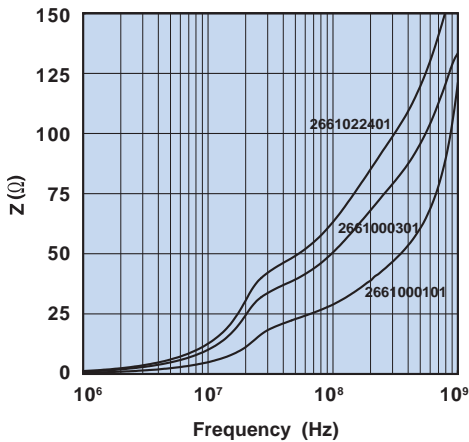
**Figure 2** Impedance vs. Frequency for 73 material EMI suppression beads.



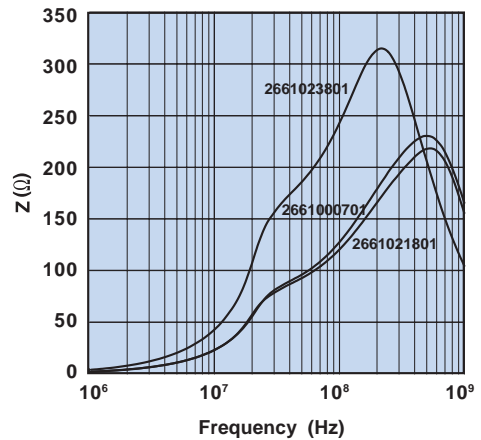
**Figure 3** Impedance vs. Frequency for 43 material EMI suppression beads.



**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.

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