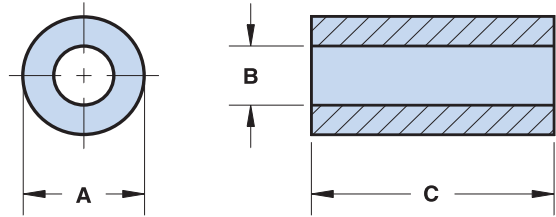


EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Fair-Rite offers a broad selection of ferrite EMI suppression beads with guaranteed minimum impedance specifications

- Beads with a "1" as the last digit of the part number are not burnished. Parts that are burnished to break the sharp edges have a "2" as the last digit.
- Upon request beads can be supplied with a Parylene coating. The last digit of the Parylene coated part is a "4". The minimum coating thickness beads is 0.005mm (.0002"). See page 124 for material characteristics of Parylene C.
- The column "H (Oe)" gives for each bead 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 material graphs on pages 145-146, Figures 18-23.
- Suppression beads are controlled for impedances only. The impedances listed are typical values. Minimum impedance values are specified for the + marked frequencies. The minimum guaranteed impedance is the listed typical impedance less 20%.
- Single turn impedance tests for 73 and 43 material beads are performed on the 4193A Vector Impedance Analyzer. The 61 material beads are tested on the 4191A RF Impedance Analyzer. **Beads are tested with the shortest practical wire length.**
- Performance curves of all listed EMI suppression beads are compiled on the Fair-Rite Products CD-ROM.
- For larger suppression cores, refer to the section "Round Cable EMI Suppression Cores" found on pages 70-74.
- For any EMI suppression bead requirement not listed here, feel free to contact our customer service group for availability and pricing.
- Our "Shield Bead Kit" (part number 0199000019) contains a selection of these beads. See page 67.
- Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade and last digit 1= not burnished, 2 = burnished and 4 = Parylene coated.



Lower Frequencies < 50 MHz (73 material)

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

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)			
						1 MHz	5 MHz	10 MHz ⁺	25 MHz ⁺
2673901301	0.95 - 0.05 .036	0.45+0.1 .020	3.8±0.2 .150	.01	6.0	5.3	13	16	24
2673004601	1.1 - 0.1 .041	0.65+0.1 .028	4.1 - 0.3 .156	.01	4.7	3.3	8.2	12.5	19
2673004701	1.45 - 0.15 .054	0.7+0.1 .029	2.3±0.15 .090	.01	4.0	3.1	7.6	12.5	17
2673030101	1.22 - 0.13 .045	0.8+0.1 .033	5.3 - 0.45 .200	.01	4.1	3.5	8.6	11	17
2673025301	1.25 - 0.1 .047	0.8+0.1 .033	3.8±0.2 .150	.01	4.0	2.9	7.1	10	15
2673010101	1.95 - 0.25 .072	0.8+0.1 .033	10.0 - 0.4 .384	.08	3.3	20.5	48.5	55	77

**Bold part numbers designate preferred parts.

⁺ Test frequency

*This dimension may be modified to suit specific applications.

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EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Lower Frequencies < 50 MHz (73 material)

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

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)			
						1 MHz	5 MHz	10 MHz ⁺	25 MHz ⁺
2673004801	2.1 - 0.15 .080	0.85+0.1 .034	2.9 - 0.45 .105	.03	3.1	5.5	13.5	18	28
2673028602	2.13 - 0.1 .082	0.85+0.1 .034	5.6±0.15 .220	.07	2.7	13	30.5	38	50
2673012401	1.55 - 0.1 .059	0.95+0.15 .040	4.2 - 0.25 .160	.02	3.3	3.5	8.6	11	19
2673002201	1.95 - 0.2 .072	1.05+0.1 .043	10.4±0.25 .410	.09	2.9	14	33.5	38	55
2673000501	2.0 - 0.15 .076	1.05+0.1 .043	1.65 - 0.25 .060	.01	2.8	2.1	6.3	7.5	12
2673000201	2.0 - 0.15 .076	1.05+0.1 .043	3.8±0.25 .150	.04	2.8	5.2	12.5	18	27
2673000101	3.5±0.2 .138	1.3±0.1 .051	3.25±0.25 .128	.13	2.0	8.1	19.5	25	35
2673000301	3.5±0.2 .138	1.3±0.1 .051	6.0±0.25 .236	.24	2.0	15.5	37.5	57	63
2673000701	3.5±0.2 .138	1.3±0.1 .051	12.7±0.35 .500	.51	2.0	34.5	81.5	120	125
2673022401	5.1±0.25 .200	1.45+0.25 .062	6.35±0.25 .250	.56	1.5	20	47.5	54	58
2673021801	5.1±0.25 .200	1.45+0.25 .062	11.1±0.35 .437	1.0	1.5	35.5	84	94	95
2673018001	2.85±0.1 .112	1.65+0.15 .068	6.65±0.25 .262	.13	1.8	8.3	20	29	41
2673004901	2.85±0.1 .112	1.65+0.15 .068	10.45±0.25 .410	.20	1.8	13.5	32.5	40	58
2673001601	3.55±0.15 .140	1.65+0.25 .070	3.3 - 0.4 .122	.11	1.6	5.1	12.5	16	24
2673015301	4.1 - 0.25 .156	1.8±0.15 .071	6.85±0.25 .270	.32	1.5	14	34	41	54
2673000801	7.5±0.25 .296	2.25+0.25 .094	7.55±0.25 .297	1.4	1.0	23	55.5	48	45
2673200201	5.2±0.15 .205	2.65±0.25 .105	20.6±0.75 .812	1.6	1.1	37	89	110	113
2673003201	5.6 - 0.5 .210	2.65±0.25 .105	12.7±0.5 .500	1.0	1.1	23.5	56.5	60	60
2673002402	9.65±0.25 .380	5.0±0.2 .197	5.05 - 0.45 .190	1.2	.59	7.9	19	19	15

**Bold part numbers designate preferred parts.

⁺ Test frequency

*This dimension may be modified to suit specific applications.

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EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Broadband Frequencies 25-300 MHz (43 material)

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

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance (Ω)			
						10 MHz	25 MHz [†]	100 MHz [†]	250 MHz
2643004601	1.1 - 0.1 .041	0.65+0.1 .028	4.1 - 0.3 .156	.01	4.7	9	12.5	31	39
2643004701	1.45 - 0.15 .054	0.7+0.1 .029	2.3±0.15 .090	.01	4.0	8	12.5	26	39
2643004101	3.5±0.2 .138	0.75+0.1 .031	4.45±0.35 .175	.11	2.6	32	48	70	89
2643706001	3.5±0.25 .138	0.8+0.1 .033	2.7 - 0.45 .097	.06	2.5	18	26	45	59
2643020501	1.65±0.025 .065	0.85+0.1 .034	3.68 - 0.25 .140	.02	3.4	12	17	31	47
2643004801	2.1 - 0.15 .080	0.85+0.1 .034	2.9 - 0.45 .105	.03	3.1	12	18	31	47
2643002201	1.95 - 0.2 .072	1.05+0.1 .043	10.4±0.25 .410	.08	2.9	26	34	58	77
2643000501	2.0 - 0.15 .076	1.05+0.1 .043	1.65 - 0.25 .060	.01	2.8	6	9	22	33
2643000201	2.0 - 0.15 .076	1.05+0.1 .043	3.8±0.25 .150	.03	2.8	12	16	31	46
2643000101	3.5±0.2 .138	1.3±0.1 .051	3.25±0.25 .128	.10	2.0	17	26	40	56
2643000301	3.5±0.2 .138	1.3±0.1 .051	6.0±0.25 .236	.18	2.0	29	46	60	83
2643000701	3.5±0.2 .138	1.3±0.1 .051	12.7±0.35 .500	.38	2.0	60	89	125	148
2643200101	5.1±0.25 .200	1.45+0.25 .062	3.4 - 0.45 .125	.19	1.5	19	30	41	61
2643022401	5.1±0.25 .200	1.45+0.25 .062	6.35±0.25 .250	.38	1.5	36	55	82	97
2643021801	5.1±0.25 .200	1.45+0.25 .062	11.1±0.35 .437	.67	1.5	62	96	131	151
2643023801	5.1±0.25 .200	1.45+0.25 .062	22.85±0.75 .900	1.4	1.5	126	192	266	285
2643001501	3.5±0.2 .138	1.6±0.1 .063	3.25±0.25 .128	.10	1.7	13	21	35	50
2643025601	3.5±0.2 .138	1.6±0.1 .063	6.0±0.25 .236	.18	1.7	23	38	55	70
2643023201	2.85±0.1 .112	1.65+0.15 .068	3.75±0.25 .147	.06	1.8	10	15	30	43
2643013801	3.5±0.2 .138	1.65+0.25 .070	4.05±0.25 .160	.12	1.6	14	24	38	52
2643001601	3.55±0.15 .140	1.65+0.25 .070	3.3 - 0.4 .122	.09	1.6	11	19	30	46
2643001301	3.55±0.15 .140	1.65+0.25 .070	5.95±0.25 .234	.18	1.6	21	31	48	65
2643005701	5.1±0.25 .200	2.3±0.2 .090	12.7±0.35 .500	.81	1.2	49	78	120	123
2643000801	7.5±0.2 .296	2.25+0.25 .094	7.55±0.25 .297	1.0	1.0	42	63	92	109

**Bold part numbers designate preferred parts.

[†] Test frequency

*This dimension may be modified to suit specific applications.

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EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Broadband Frequencies 25-300 MHz (43 material)

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

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)			
						10 MHz	25 MHz ⁺	100 MHz ⁺	250 MHz
2643300101	7.6±0.25 .300	2.25±0.25 .094	15.1±0.75 .595	2.1	1.0	83	115	200	195
2643003201	5.6-0.5 .210	2.65±0.25 .105	12.7±0.5 .500	.87	1.1	42	63	88	110
2643250402	6.35±0.15 .250	2.95±0.45 .125	12.7±0.5 .500	1.2	.91	43	69	102	111
2643250302	6.35±0.15 .250	2.95±0.45 .125	15.9±0.5 .625	1.5	.91	53	85	122	132
2643250202	6.35±0.15 .250	2.95±0.45 .125	25.4±0.75 1.000	2.5	.91	83	135	200	196
2643375102	9.5±0.25 .375	4.5±0.75 .192	6.35±0.35 .250	1.4	.60	21	35	50	66
2643375002	9.5±0.25 .375	4.5±0.75 .192	14.5±0.6 .570	3.1	.60	47	78	115	119
2643006302	9.5±0.25 .375	4.75±0.3 .193	10.4±0.25 .410	2.2	.60	34	53	80	92
2643023402	9.5±0.25 .375	4.75±0.3 .193	15.9±0.45 .625	3.4	.60	51	83	120	127
2643023002	9.5±0.25 .375	4.75±0.3 .193	19.05±0.7 .750	4.1	.60	60	100	145	148
2643002402	9.65±0.25 .380	5.0±0.2 .197	5.05 - 0.45 .190	1.1	.59	16	26	43	56
2643012702	9.65±0.25 .380	6.35±0.15 .250	7.35±0.25 .290	1.3	.51	15	24	38	55

**Bold part numbers designate preferred parts.

⁺ Test frequency

*This dimension may be modified to suit specific applications.

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EMI Suppression Beads

Listed by frequency range and in ascending order of "B" dimension.

Higher Frequencies 250-1000 MHz (61 material)

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

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)			
						100 MHz	250MHz ⁺	500 MHz ⁺	1000 MHz
2661030101	1.22 - 0.13 .045	0.8+0.1 .033	5.3 - 0.45 .200	.01	4.1	17	32	53	93
2661002201	1.95 - 0.2 .072	1.05+0.1 .043	10.4±0.25 .410	.08	2.9	53	76	97	122
2661000101	3.5±0.2 .138	1.3±0.1 .051	3.25±0.25 .128	.10	2.0	30	45	62	95
2661000301	3.5±0.2 .138	1.3±0.1 .051	6.0±0.25 .236	.18	2.0	54	82	103	120
2661000701	3.5±0.2 .138	1.3±0.1 .051	12.7±0.35 .500	.38	2.0	120	158	178	185
2661022401	5.1±0.25 .200	1.45+0.25 .062	6.35±0.25 .250	.38	1.5	58	82	103	138
2661021801	5.1±0.25 .200	1.45+0.25 .062	11.1±0.35 .437	.67	1.5	102	141	167	185
2661023801	5.1±0.25 .200	1.45+0.25 .062	22.85±0.75 .900	1.4	1.5	210	286	325	350
2661005701	5.1±0.25 .200	2.3±0.2 .090	12.7±0.35 .500	.81	1.2	97	130	150	167
2661000801	7.5±0.25 .296	2.25+0.25 .094	7.55±0.25 .297	1.0	1.0	84	114	134	160
2661250402	6.35±0.15 .250	2.95+0.45 .125	12.7±0.5 .500	1.2	.91	75	103	120	143
2661250202	6.35±0.15 .250	2.95+0.45 .125	25.4±0.75 1.000	1.4	.91	165	230	275	330
2661375102	9.5±0.25 .375	4.5+0.75 .192	6.35±0.35 .250	2.5	.60	42	63	83	117
2661002402	9.65±0.25 .380	5.0±0.2 .197	5.05 - 0.45 .190	1.1	.59	35	54	75	112

**Bold part numbers designate preferred parts.

⁺ Test frequency

*This dimension may be modified to suit specific applications.

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