

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.

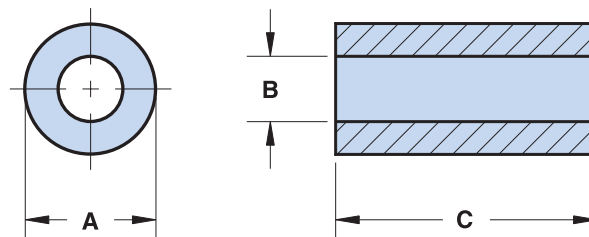
- For typical impedance vs. frequency curves, see Figures 1-5.

- 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	—

**Bold part numbers designate preferred parts.

¹Guaranteed Z Min is Z Typ -20%

*This dimension may be modified to suit specific applications.

Fair-Rite Products Corp.

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

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

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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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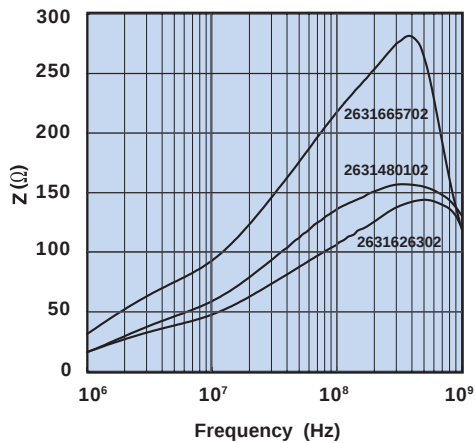


Figure 1 Impedance vs. Frequency for 31 material round cable EMI suppression cores.

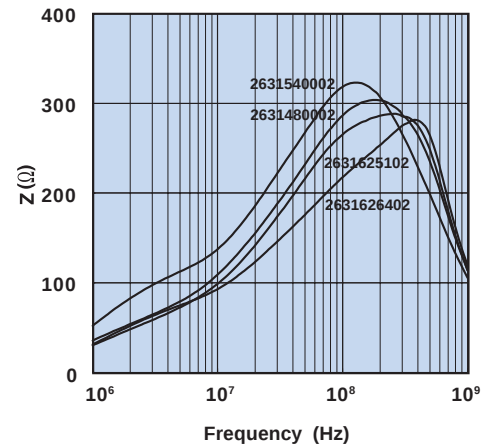


Figure 2 Impedance vs. Frequency for 31 material round cable EMI suppression cores.

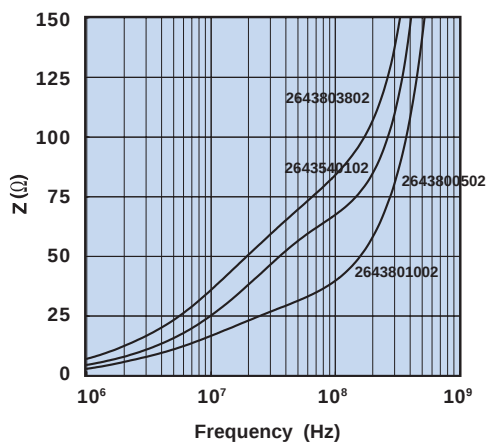


Figure 3 Impedance vs. Frequency for 43 material round cable EMI suppression cores.

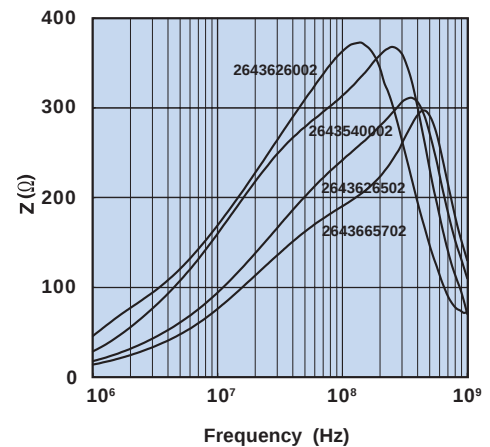


Figure 4 Impedance vs. Frequency for 43 material round cable EMI suppression cores.

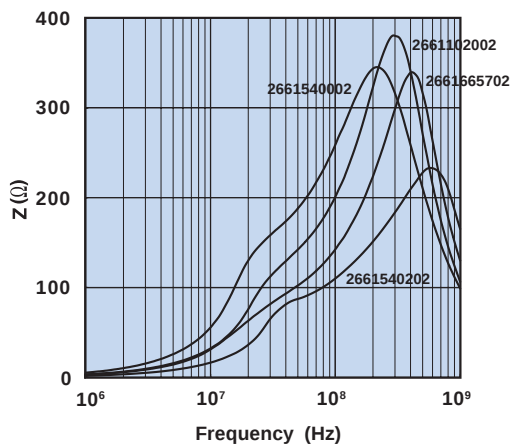


Figure 5 Impedance vs. Frequency for 61 material round cable EMI suppression cores.

