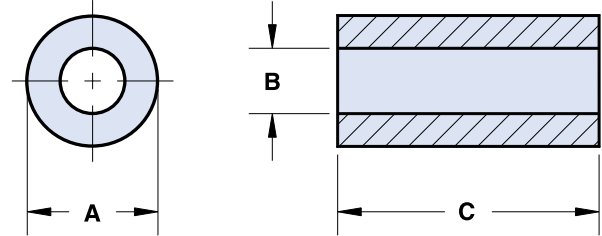


Round Cable EMI Suppression Cores

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.

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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.

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
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	-

**Bold part numbers designate preferred parts.

*This dimension may be modified to suit specific applications.

¹ Guaranteed Z Min is Z Typ -20%

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Round Cable EMI Suppression Cores

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
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	-

**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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Round Cable EMI Suppression Cores

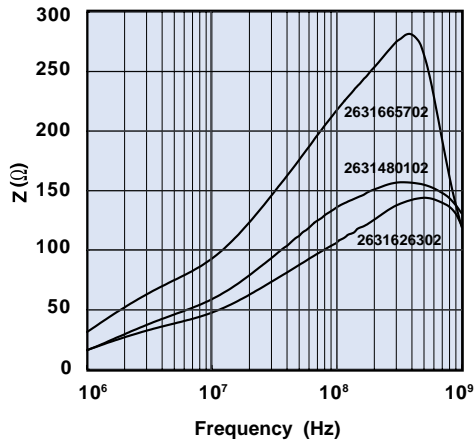


Figure 1 Impedance vs. Frequency for 31 material round cable EMI suppression cores.

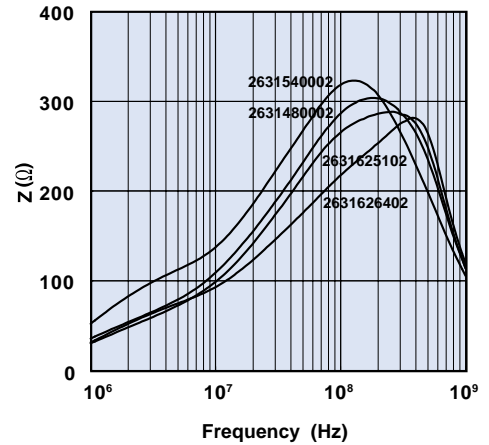


Figure 2 Impedance vs. Frequency for 31 material round cable EMI suppression cores.

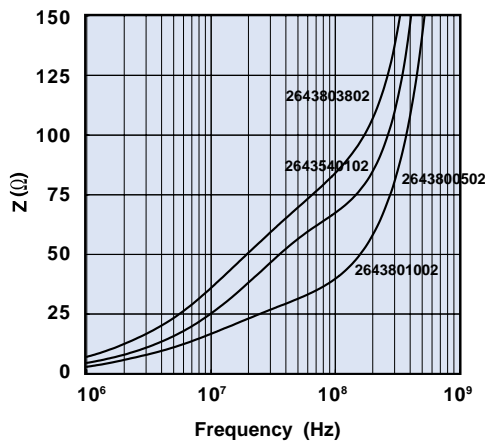


Figure 3 Impedance vs. Frequency for 43 material round cable EMI suppression cores.

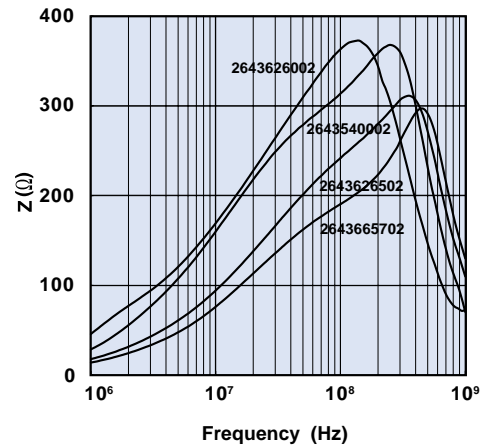


Figure 4 Impedance vs. Frequency for 43 material round cable EMI suppression cores.

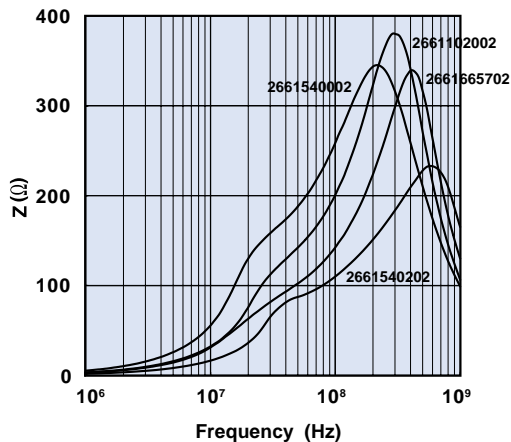


Figure 5 Impedance vs. Frequency for 61 material round cable EMI suppression cores.

