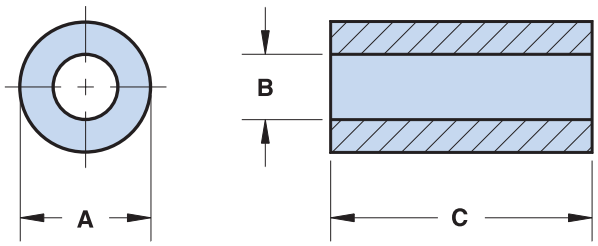
Round Cable EMI Suppression Cores

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.*

**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.)

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)[1] 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.*

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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.)

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)[1] 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.*

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Round Cable EMI Suppression Cores

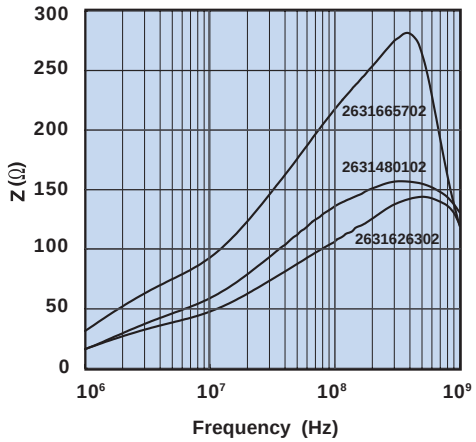

Figure 1 Impedance vs. Frequency for 31 material round cable EMI suppression cores.

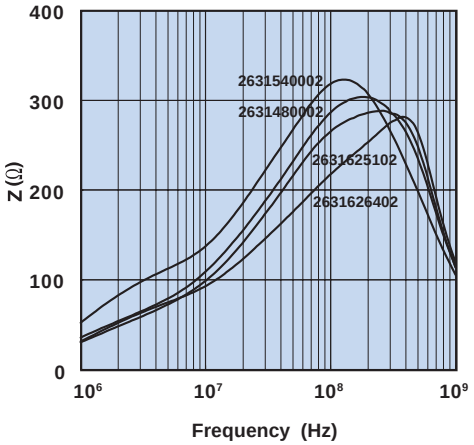

Figure 2 Impedance vs. Frequency for 31 material round cable EMI suppression cores.

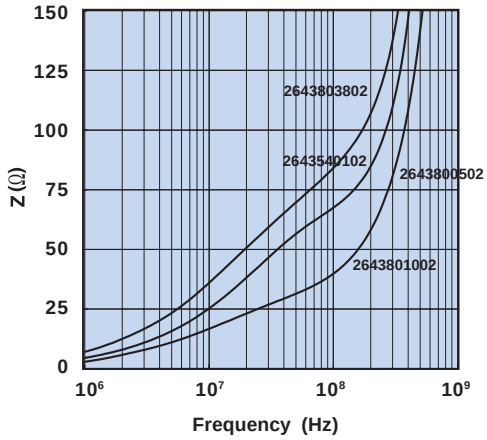

Figure 3 Impedance vs. Frequency for 43 material round cable EMI suppression cores.

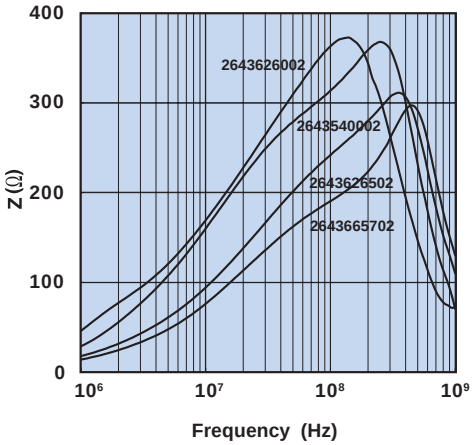

Figure 4 Impedance vs. Frequency for 43 material round cable EMI suppression cores.

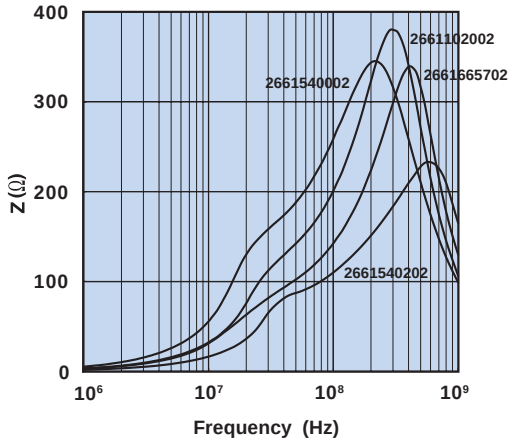

Figure 5 Impedance vs. Frequency for 61 material round cable EMI suppression cores.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9