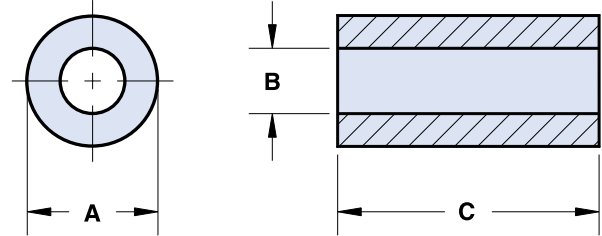


# Round Cable EMI Suppression Cores

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

Part Number**	A	B	C*	Wt (g)	H (Oe)	10 MHz	25 MHz	100 MHz	250 MHz
2631480102	<b>12.3±0.4</b> .485	<b>4.95±0.25</b> .200	<b>12.7±0.4</b> .500	4.8	.52	58	88	140	-
2643480102	<b>12.3±0.4</b> .485	<b>4.95±0.25</b> .200	<b>12.7±0.4</b> .500	4.8	.52	-	84	121	-
2631480002	<b>12.3±0.4</b> .485	<b>4.95±0.25</b> .200	<b>25.4±0.75</b> 1.000	9.5	.52	115	175	295	-
2643480002	<b>12.3±0.4</b> .485	<b>4.95±0.25</b> .200	<b>25.4±0.75</b> 1.000	9.5	.52	-	165	236	-
2643540702	<b>14.3±0.45</b> .562	<b>6.35±0.25</b> .250	<b>5.3 - 0.45</b> .200	2.6	.43	-	30	50	-
2643540102	<b>14.3±0.45</b> .562	<b>6.35±0.25</b> .250	<b>10.15±0.4</b> .400	5.1	.43	-	61	89	-
<b>2631540202</b>	<b>14.3±0.45</b> .562	<b>6.35±0.25</b> .250	<b>13.8 - 0.7</b> .530	6.8	.43	58	88	140	-
<b>2643540202</b>	<b>14.3±0.45</b> .562	<b>6.35±0.25</b> .250	<b>13.8 - 0.7</b> .530	6.8	.43	-	78	118	-
<b>2661540202</b>	<b>14.3±0.45</b> .562	<b>6.35±0.25</b> .250	<b>13.8 - 0.7</b> .530	6.8	.43	-	-	125	180
<b>2631540002</b>	<b>14.3±0.45</b> .562	<b>6.35±0.25</b> .250	<b>28.6±0.75</b> 1.125	14	.43	119	181	300	-
<b>2643540002</b>	<b>14.3±0.45</b> .562	<b>6.35±0.25</b> .250	<b>28.6±0.75</b> 1.125	14	.43	-	171	250	-

\*\*Bold part numbers designate preferred parts.

<sup>1</sup>Guaranteed 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).