Fair-Rite Products Corp.
Your Signal Solution®

Round Cable EMI Suppression Cores (2631023002)

Part Number: 2631023002

31 SHIELD BEAD

Explanation of Part Numbers:
– Digits 1 & 2 = Product Class
– Digits 3 & 4 = Material Grade
– Last digit 2 = Burnished (All cable cores have been burnished to remove the sharp edges)

Fair- Rite offers a broad selection of ferrite EMI suppression cable cores in several materials with guaranteed minimum impedance specifications.

For smaller suppression parts, refer to the section □EMI Suppression Beads.

Our Expanded Cable and Suppressor Kit (part number 0199000005) contains a selection of these suppression cores.

For any cable suppression core not listed here, feel free to contact our customer service group for availability and pricing.

Catalog Drawing
3D Model

The C dimension, the core length, can be modified to suit specific applications.

Weight: 4.7 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	9.5	±0.25	0.374	_
B	4.75	+0.30	0.193	_
C	19.05	±0.70	0.75	_

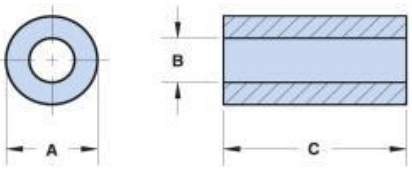


Chart Legend
+ Test frequency

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 figures 18-23 in the application note □How to choose Ferrite Components for EMI Suppression□.

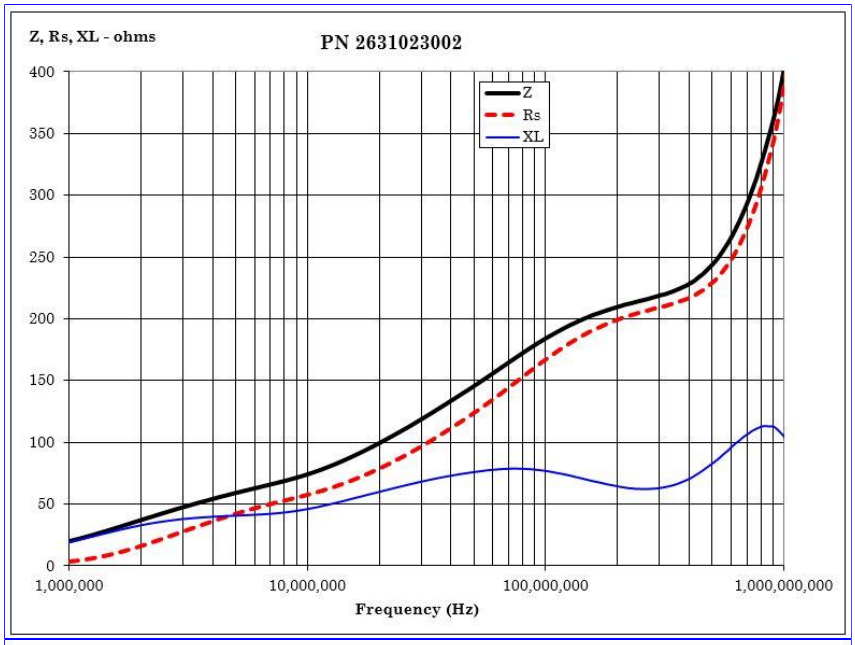
Typical Impedance (Ω)	
1 MHz	19.8
5 MHz	59
10 MHz+	74
25 MHz+	106
100 MHz+	184
250 MHz	214

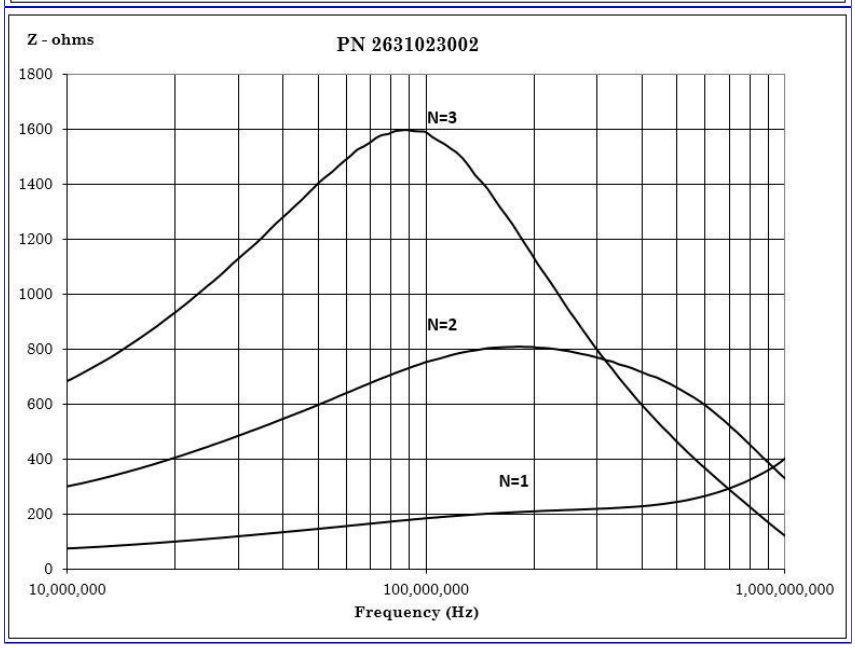
Electrical Properties	
H(Oe)	0.6

Suppression cable cores are controlled for impedances only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is listed on our catalog drawing.

[Catalog Drawing]

Single turn impedance tests for 31, 43 and 46 material cores are performed on the E4991A/ HP4291B Impedance Analyzer. The 61 material parts are tested on the E4991A / HP4291B Impedance Analyzer and 75 material parts are tested on the E4990A Impedance Analyzer. Cores are tested with the shortest practical wire length.





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