Fair-Rite Products Corp.
Your Signal Solution®

EMI Suppression Beads (2643004701)

Part Number: 2643004701

43 SHIELD BEAD

Explanation of Part Numbers:
– Digits 1 & 2 = Product Class
– Digits 3 & 4 = Material Grade
– Last digit 1= Not Burnished 2 = Burnished
– The last digit of the Parylene coated part is a "4," which is available upon request. The minimum coating thickness beads is 0.005 mm (0.0002″).

Fair-Rite offers a broad selection of ferrite EMI suppression beads with guaranteed minimum impedance specifications.

Our "Shield Bead Kit" (part number 0199000019) contains a selection of these beads.

For any EMI suppression bead requirement not listed here, feel free to contact our customer service for availability and pricing.

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

Weight: 0.01 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	1.45	-0.15	0.054	_
B	0.7	+0.10	0.030	_
C	2.3	±0.15	0.091	_

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.

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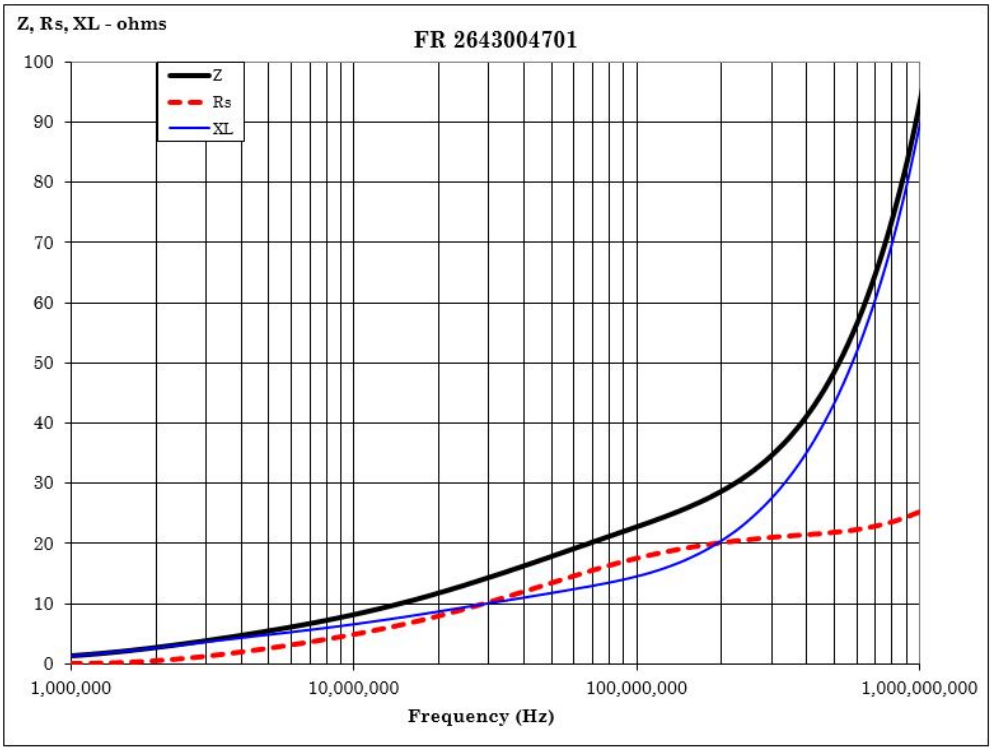
Typical Impedance (Ω)	
10 MHz	8.3
25 MHz+	13.5
100 MHz+	24
250 MHz	34

Electrical Properties	
H(Oe)	4

Suppression beads are controlled for impedances only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed impedance less 20%.

Single turn impedance tests for 73 and 43 material beads are performed on the E4990A Impedance Analyzer. The 61 material beads are tested on the E4991A / HP4291B Impedance Analyzer. Beads are tested with the shortest practical wire length.

Typical Impendance (Ω)	
10 MHz	8
25 MHz+	12.5
100 MHz+	26
250 MHz	39



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