

# EMI Suppression Beads

## (2643002201)

Part Number: 2643002201

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.**

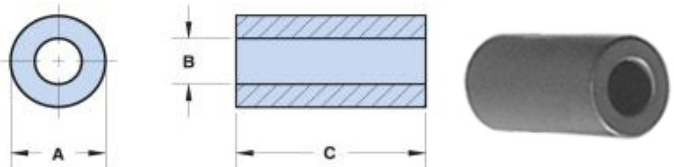
[Catalog Drawing](#)

[3D Model](#)

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

Weight: 0.08 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	1.95	-0.20	0.073	-
B	1.05	+0.10	0.043	-
C	10.4	±0.25	0.409	-



### 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 ( $\Omega$ )	
10 MHz	27
25 MHz <sup>+</sup>	42
100 MHz <sup>+</sup>	61
250 MHz	64

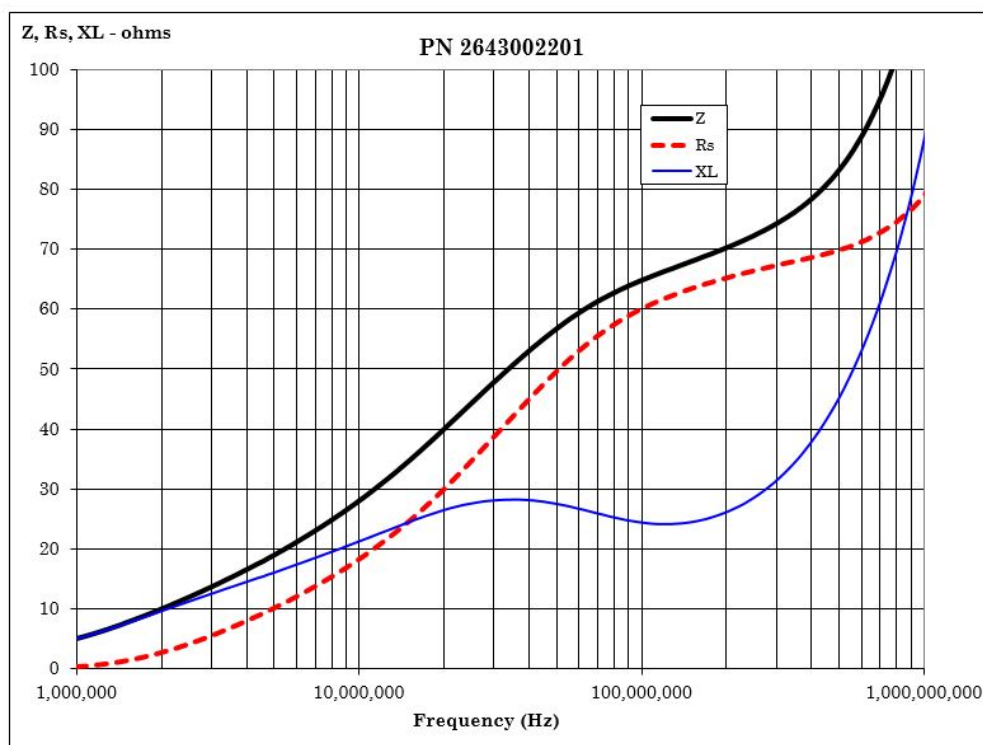
Electrical Properties	
H(Oe)	2.9

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%.

[Catalog Drawing](#)

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 Impedance ( $\Omega$ )	
10 MHz	26
25 MHz <sup>+</sup>	34
100 MHz <sup>+</sup>	58
250 MHz	77



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