

# EMI Suppression Beads

## (2643000701)

Part Number: 2643000701

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.**

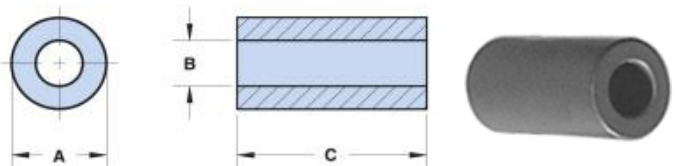
[Catalog Drawing](#)

[3D Model](#)

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

Weight: 0.38 (g)

| Dim | mm   | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A   | 3.5  | ±0.20  | 0.138        | —          |
| B   | 1.3  | ±0.10  | 0.051        | —          |
| C   | 12.7 | ±0.35  | 0.5          | —          |



### 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”.

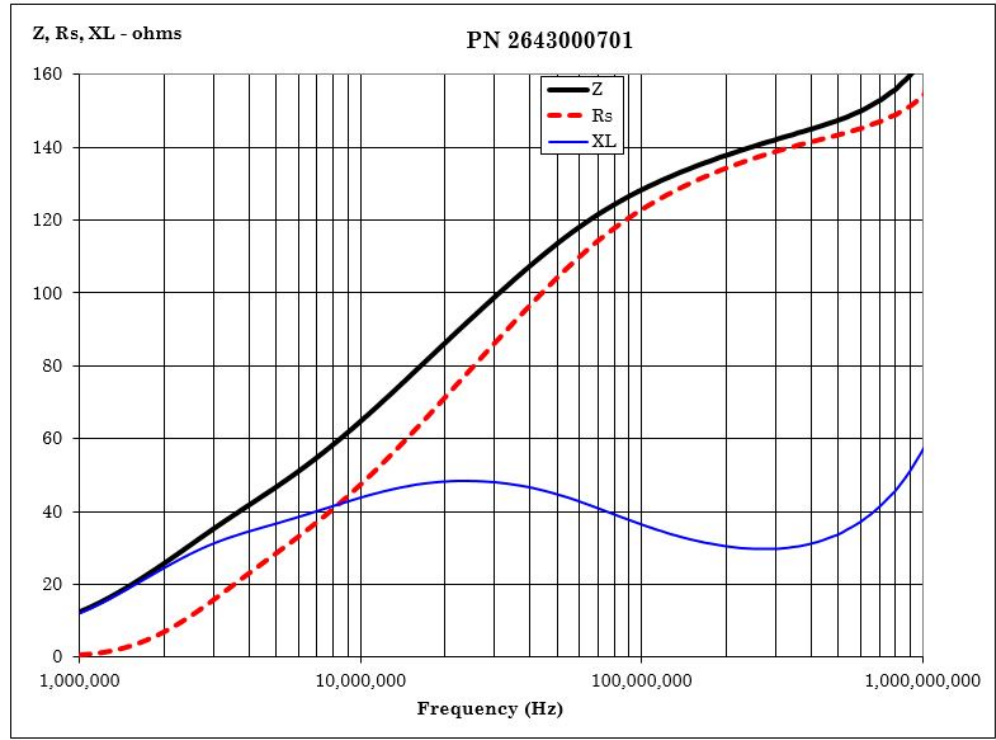
| Typical Impedance ( $\Omega$ ) |     |
|--------------------------------|-----|
| 10 MHz                         | 65  |
| 25 MHz <sup>+</sup>            | 93  |
| 100 MHz <sup>+</sup>           | 128 |
| 250 MHz                        | 140 |
| Electrical Properties          |     |
| H(Oe)                          | 2   |

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                         | 60  |
| 25 MHz <sup>+</sup>            | 89  |
| 100 MHz <sup>+</sup>           | 125 |
| 250 MHz                        | 148 |



[CSV Download](#)

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