

Round Cable EMI Suppression Cores (2643801002)



\Box For any cable suppression core not listed here, feel free to contact our customer service group for availability and pricing.
Our □Expanded Cable and Suppressor Kit□ (part number 0199000005) contains a selection of these suppression cores.
\Box For smaller suppression parts, refer to the section \Box EMI Suppression Beads \Box .
Fair- Rite offers a broad selection of ferrite EMI suppression cable cores in several materials with guaranteed minimum impedance specifications.
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)
43 ROUND CABLE CORE
Part Number: 2643801002

Weight: 13.6 (g)

		<u> </u>			
Dim	mm	mm tol	nominal inch	inch misc.	ļ
A	29	±0.75	1.142		1
В	19	±0.50	0.748		1
C	7.5	±0.25	0.295		٦

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

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 \Box How to choose Ferrite Components for EMI Suppression \Box .

Typical Impedance (Ω)
10 MHz	17
25 MHz ⁺	28
100 MHz ⁺	47
250 MHz	80
Electrical Properties	

|0.17|

H(Oe)

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

 \Box Single turn impedance tests for 31, 43 and 46 material cores are performed on the 4193A Vector Impedance Meter. The 61 material parts are tested on the 4191A RF Impedance Analyzer and 75 material parts are tested on the 4285A LCR Meter. Cores are tested with the shortest practical wire length.

Fair- Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288

888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • ferrites@fair- rite.com • www.fair- rite.com