

Part Number: 0444167281

44 ROUND CABLE CORE ASSEMBLY

Explanation of Part Numbers:

- Digits 1 & 2 = Product Class
- Digits 3 & 4 = Material Grade

The B dimension is the core inside diameter.

Weight: 33 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	40.32	+/- 1.0	1.59	=
B	19.20 Min	Min	0.75	
C	43.5	+/- 1.0	1.71	=
D	28.62	+/- 1.0	1.13	=
E	9.20	=	0.36	
F	3.57	=	0.14	

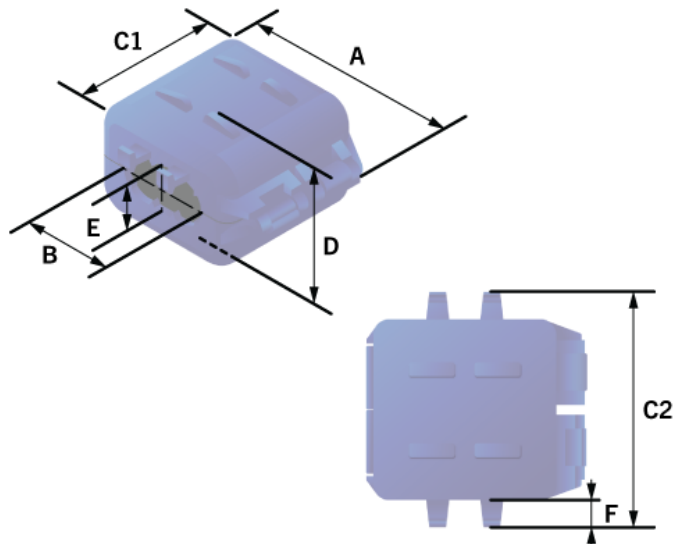


Chart Legend

+ Test frequency

• For solid cable cores, see Oval Cable EMI Suppression Cores

Typical Impedance (Ω)	
25 MHz	114

Typical Impedance (Ω)	
100 MHz	178
Electrical Properties	
$A_e(\text{cm}^2)$	127
$\Sigma l/A(\text{cm}^{-1})$	0.583
$l_e(\text{cm})$	74.1
$V_e(\text{cm}^3)$	9410

Round cable snap-it assemblies 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 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.

Typical Impedance (Ω)	
25 MHz ⁺	114
100 MHz ⁺	178
250 MHz	260

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