

# Flat Cable EMI Suppression Cores

## (2643173851)

Part Number: 2643173851

43 SPLIT FLAT CABLE CORE

Explanation of Part Numbers:

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

**Flat cable suppression core can accommodate multi-conductors flat cables, in widths from 12.7 mm (0.500) up to 77 mm (3.0). These flat cable cores are available in two ferrite material grades to reduce conducted EMI from 1 MHz to hundreds of MHz.**

Our Expanded Cable & Suppressor Kit (part number 0199000005) contains a selection of these flat cable cores and clips.

Flat Cable Cores are available in selected sizes in the Flex Circuit & Ribbon Cable Core Kit (part number 0199000038).

Assembly clips are available for most of the split flat cable cores. See section Flat Cable Cores Assembly clips.

[Catalog Drawing](#)  
[3D Model](#)

Weight: 1.2 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	16.5	±0.25	0.65	—
B	12.5	±0.20	0.492	—
C	10.25	±0.25	0.404	—
D	2	±0.15	0.079	—
E	0.625	+0.125	0.025	—

Cable Information			
Max Diameter	Max Dimension	Solid Equivalent	Flat Cable Cores
0 0	12.30 x 1.00	—	—

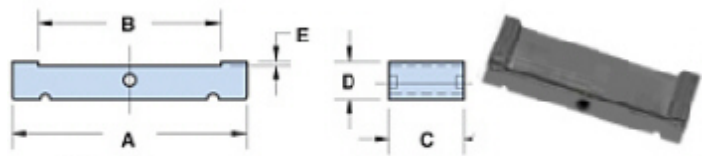


Figure 1

### Chart Legend

+ Test frequency

•For assembly clips see Flat Cable Cores Assembly Clips

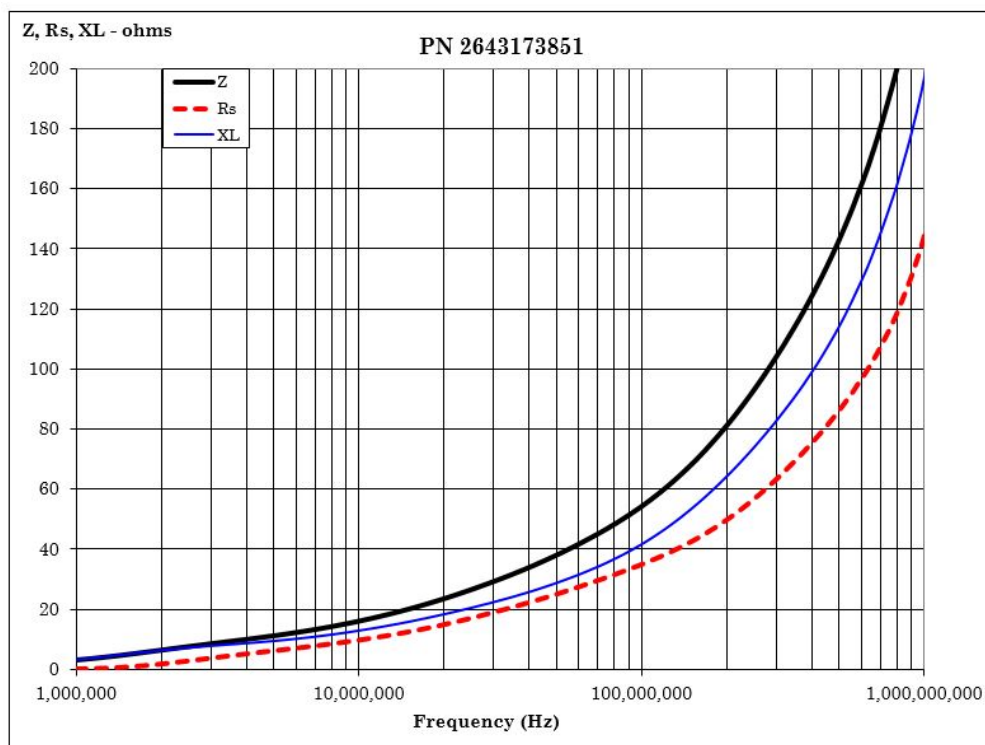
Typical Impedance ( $\Omega$ )	
10 MHz	16
25 MHz <sup>+</sup>	26
100 MHz <sup>+</sup>	54
250 MHz	93

Flat cable suppression cores, split or single 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%.

### [Catalog Drawing](#)

Centered, single turn impedance tests for the 31 and 43 material parts are performed on the E4990A Impedance Analyzer. All tests are made with the shortest practical wire length.

Typical Impedance ( $\Omega$ )	
10 MHz	15
25 MHz <sup>+</sup>	28
100 MHz <sup>+</sup>	58
250 MHz	93



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