

Part Number: 0431163951

## 31 FLAT CABLE CORE ASSEMBLY

### Explanation of Part Numbers:

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

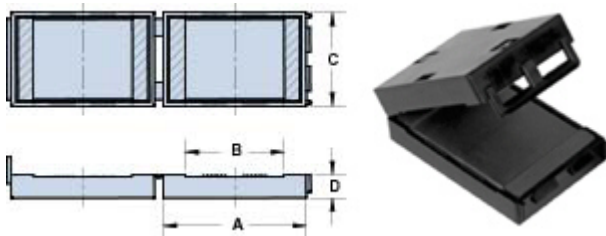
Flat Cable Snap-It™ for use on multi-conductor flat cables to suppress common-mode conducted EMI from 1MHz to hundreds of MHz. These Flat Cable Snap-It™ are available in two ferrite materials, 31 and 43. The polypropylene cases are meeting the RoHS restrictions of hazardous substances and have a flammability rating of UL 94 V-0.

The Expanded Cable and Suppressor Kit (Part number 0199000005) contains several Flat Cable Snap-It™ assemblies.

Weight: 110 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	68.0	+/- 2.00	2.677	-
B	51.00	-	2.008	-
C	32.5	+/- 1.5	1.28	-
D	7.90	+/- 0.5	0.311	-

Cable Information			
Max Diameter	Max Dimension	Solid Equivalent	Flat Cable Cores
0 0	51.00 x 1.30	-	-



### Chart Legend

+ Test frequency

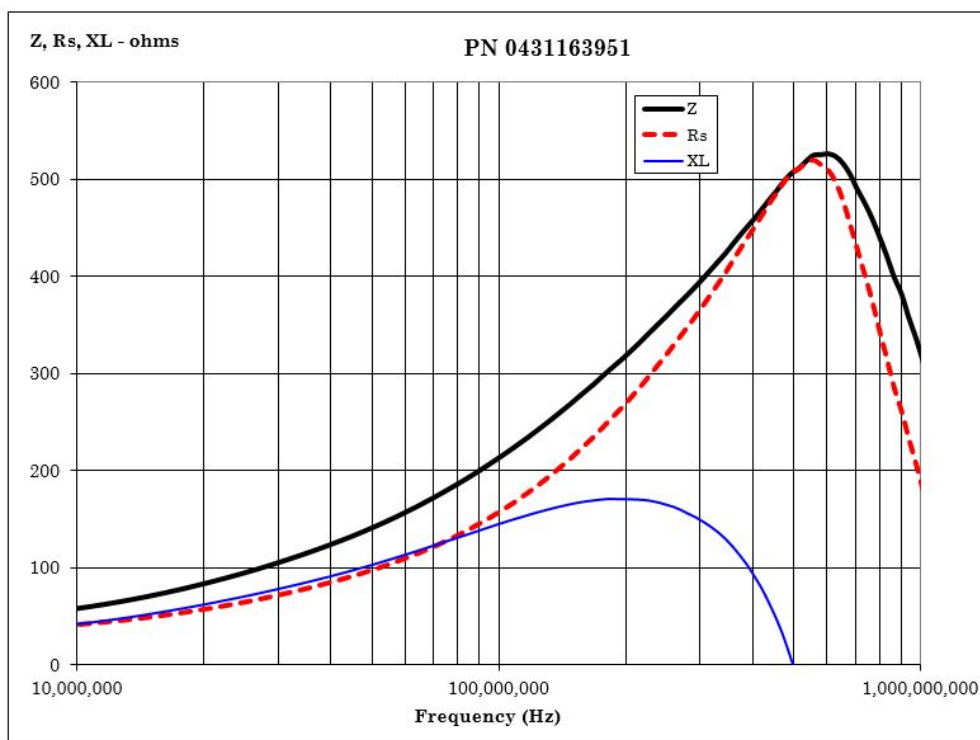
Typical Impedance (Ω)	
1 MHz	16
5 MHz	45

Typical Impedance ( $\Omega$ )	
10 MHz <sup>+</sup>	58
25 MHz <sup>+</sup>	95
100 MHz <sup>+</sup>	215
250 MHz	356

Flat 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%.

Centered, single turn impedance tests on the 31 and 43 material parts are performed on the E4991A/HP4291B Impedance Analyzer. Cores are tested with the shortest practical wire length.

Typical Impedance ( $\Omega$ )	
1 MHz	13
5 MHz	35
10 MHz <sup>+</sup>	54
25 MHz <sup>+</sup>	105
100 MHz <sup>+</sup>	300
250 MHz	425



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