



**Fair-Rite Products Corp.**

Your Signal Solution®

# Flat Cable Snap- Its (0431163951)



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- Its for use on multi- conductor flat cables to suppress common- mode conducted EMI from 1MHz to hundreds of MHz. These Flat Cable Snap- Its 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.

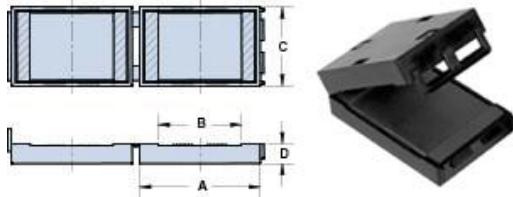
[Catalog Drawing](#)

[3D Model](#)

Weight: 110 (g)

Dim	mm	mm tol	nominal inch	inch misc.
A	680	+/- 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	51.00 x 1.30	—	-



### Chart Legend

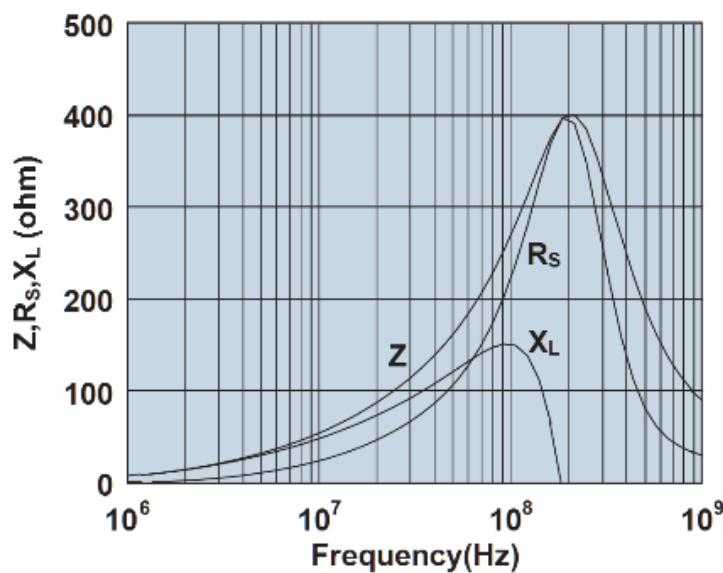
+ Test frequency

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

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 4193A Vector Impedance Analyzer. Cores are tested with the shortest practical wire length.

**0431163951**



Impedance, reactance, and resistance vs. frequency.

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](mailto:ferrites@fair-rite.com) • [www.fair-rite.com](http://www.fair-rite.com)