Fair-Rite Products Corp.
Your Signal Solution®

# Flat Cable Snap-Its (0431164051)

Part Number: 0431164051

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: 130 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 80.8 | +/- 2.00 | 3.181 | _ |
| B | 64.50 | />(2.540”) | 2.54 | |
| C | 32.3 | _ | 1.272 | _ |
| D | 7.90 | +/- 0.5 | 0.311 | _ |

| Cable Information | | | |
|---|---|---|---|
| Max Diameter | Max Dimension | Solid Equivalent | Flat Cable Cores |
| 0<br>0 | 64.00 x 1.30 | _ | - |

**Chart Legend**
+ Test frequency

| Typical Impedance (Ω) | |
|---|---|
| 1 MHz | 14 |
| 5 MHz | 40 |
| 10 MHz+ | 57 |
| 25 MHz+ | 102 |

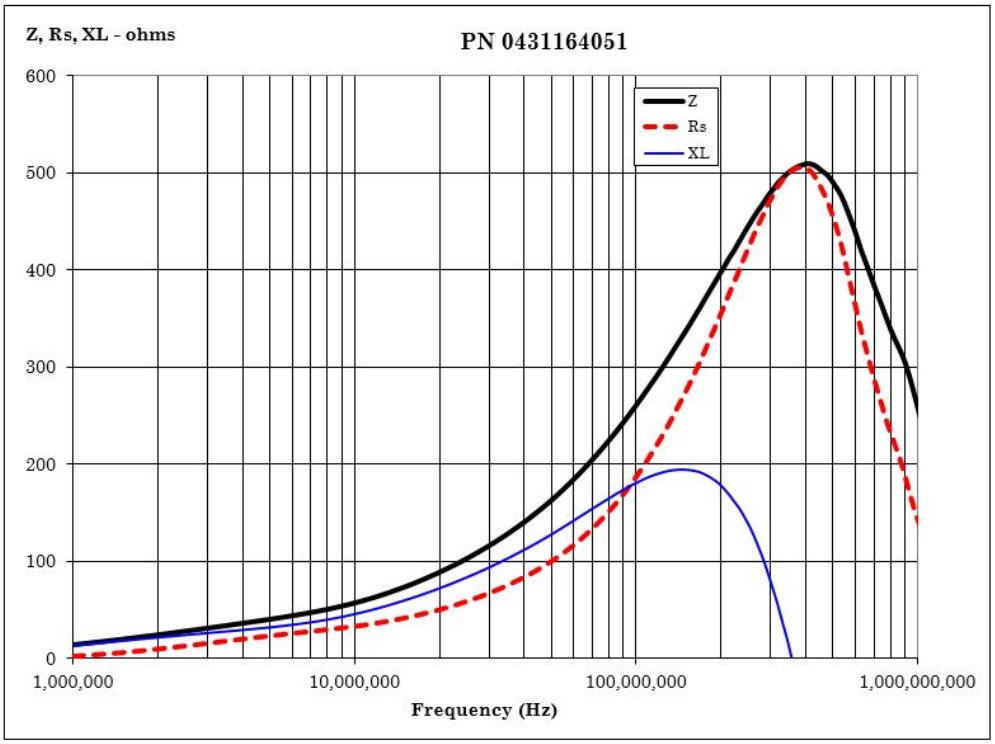
| Typical Impedance (Ω) | |
|---|---|
| 100 MHz+ | 260 |
| 250 MHz | 440 |

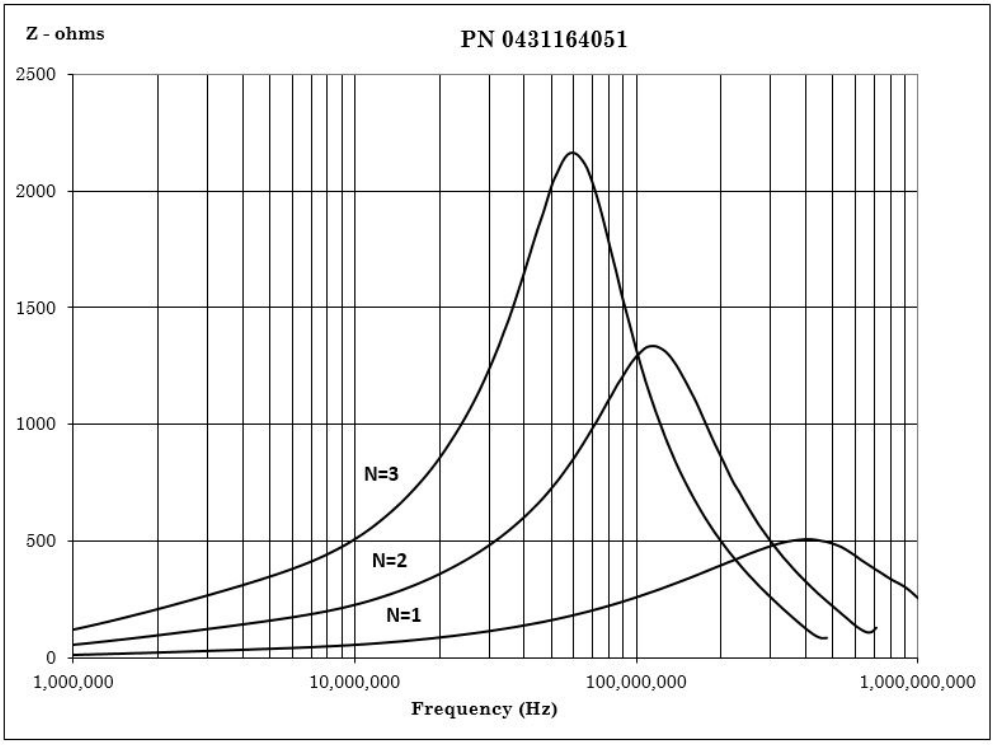
Flat Cable Snap-It assemblies are controlled for impedances only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed impedance less 20%.

Catalog Drawing

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 Impendance (Ω) | |
|---|---|
| 1 MHz | 11 |
| 5 MHz | 34 |
| 10 MHz+ | 52 |
| 25 MHz+ | 105 |
| 100 MHz+ | 310 |
| 250 MHz | 440 |






CSV Download

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