Fair-Rite Products Corp.
Your Signal Solution®

# Flat Cable EMI Suppression Cores (2643163851)

Part Number: 2643163851

43 FULL 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

Weight: 51 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 38.1 | ±1.00 | 1.5 | _ |
| B | 26.65 | ±0.75 | 1.05 | _ |
| C | 25.4 | ±0.75 | 1 | _ |
| D | 12.05 | ±0.40 | 0.475 | _ |
| E | 1.9 | ±0.40 | 0.075 | _ |

| Cable Information | | | |
|---|---|---|---|
| Max Diameter | Max Dimension | Solid Equivalent | Flat Cable Cores |
| 0<br>0 | 25.90 x 1.50 | _ | - |

**Chart Legend**
+ Test frequency
•For assembly clips see Flat Cable Cores Assembly Clips

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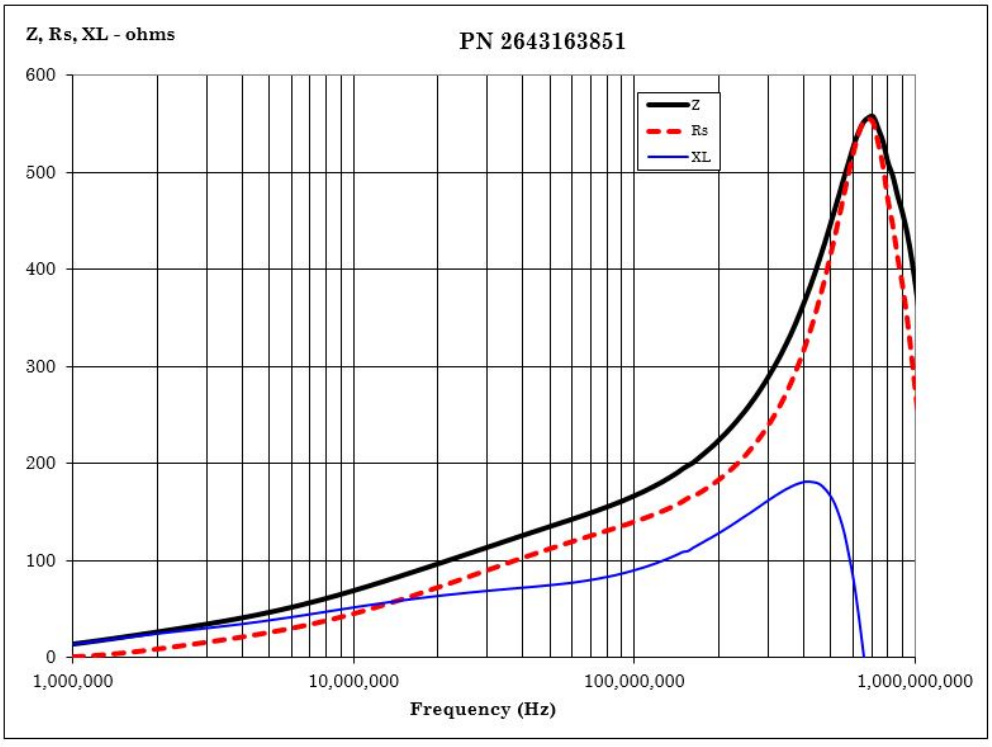
| Typical Impedance (Ω) | |
|---|---|
| 10 MHz | 69 |
| 25 MHz+ | 106 |
| 100 MHz+ | 167 |
| 250 MHz | 253 |

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%.

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 Impendance (Ω) | |
|---|---|
| 10 MHz | 64 |
| 25 MHz+ | 105 |
| 100 MHz+ | 220 |
| 250 MHz | 385 |

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