Fair-Rite Products Corp.
Your Signal Solution®

# Flat Cable EMI Suppression Cores (2643180851)

Part Number: 2643180851

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: 1.3 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|---|---|---|---|---|
| A | 12.8 | ±0.40 | 0.504 | _ |
| B | 9.8 | ±0.25 | 0.386 | _ |
| C | 12 | ±0.40 | 0.472 | _ |
| D | 2.1 | ±0.20 | 0.083 | _ |
| E | 0.5 | ±0.1 | 0.02 | _ |

| Cable Information | | | |
|---|---|---|---|
| Max Diameter | Max Dimension | Solid Equivalent | Flat Cable Cores |
| 0<br>0 | 9.50 x 0.80 | _ | - |

**Chart Legend**

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

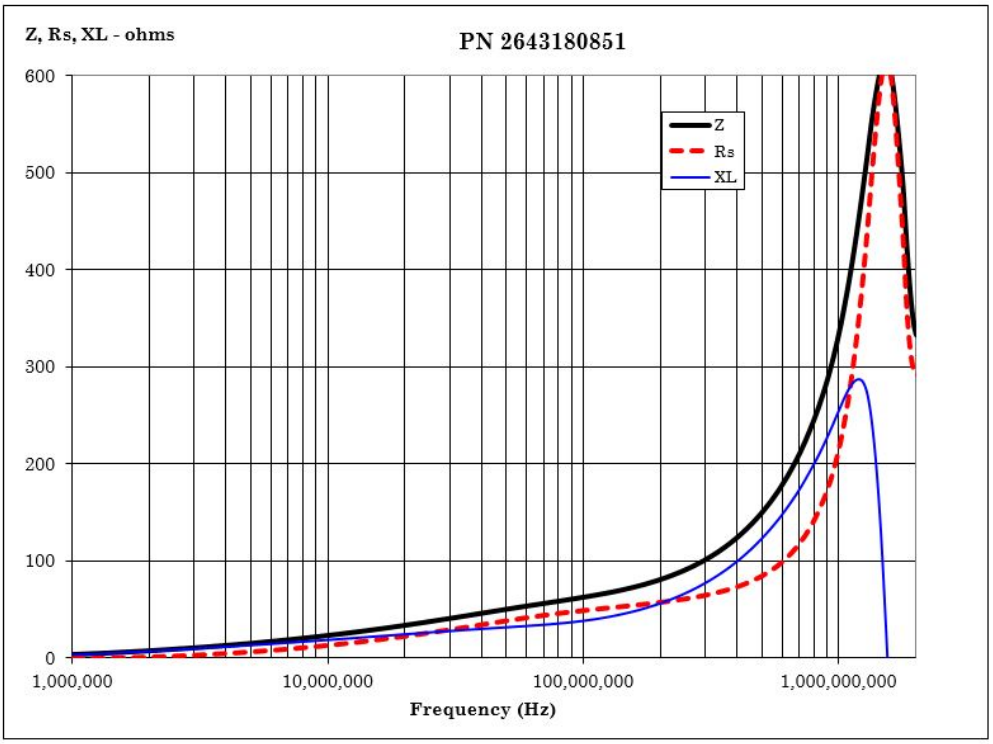
| Typical Impedance (Ω) | |
|---|---|
| 10 MHz | 23 |
| 25 MHz+ | 38 |
| 100 MHz+ | 63 |
| 250 MHz | 90 |

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 Impendance (Ω) | |
|---|---|
| 10 MHz | 22 |
| 25 MHz+ | 40 |
| 100 MHz+ | 70 |
| 250 MHz | 100 |




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