

# 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.

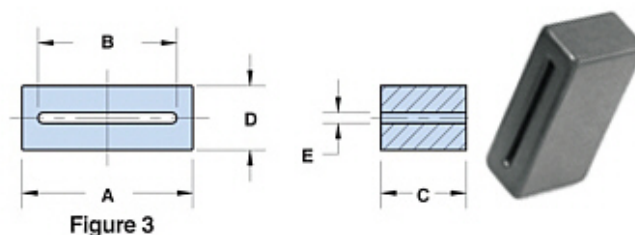
Flat Cable Cores are available in selected sizes in the Flex Circuit & Ribbon Cable Core Kit (part number 0199000038).

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**

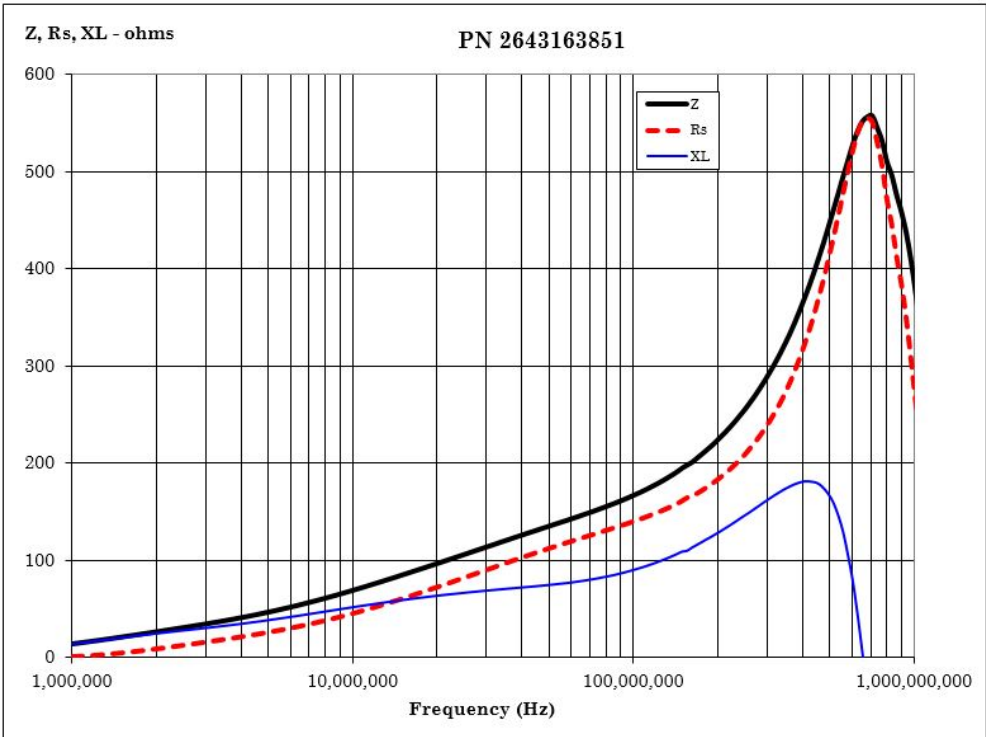
- + Test frequency
- For assembly clips see Flat Cable Cores Assembly Clips

| Typical Impedance ( $\Omega$ ) |     |
|--------------------------------|-----|
| 10 MHz                         | 69  |
| 25 MHz <sup>+</sup>            | 106 |
| 100 MHz <sup>+</sup>           | 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 Impedance ( $\Omega$ ) |     |
|--------------------------------|-----|
| 10 MHz                         | 64  |
| 25 MHz <sup>+</sup>            | 105 |
| 100 MHz <sup>+</sup>           | 220 |
| 250 MHz                        | 385 |



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