

# Flat Cable EMI Suppression Cores (2643180751)



Part Number: 2643180751

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.

[Catalog Drawing](#)

[3D Model](#)

Weight: 17 (g)

| Dim | mm   | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A   | 57.6 | ±1.00  | 2.268        | _          |
| B   | 52   | ±1.00  | 2.047        | _          |
| C   | 12   | ±0.40  | 0.472        | _          |
| D   | 6.70 | ±0.45  | 0.264        | _          |
| E   | 1.4  | ±0.30  | 0.055        | _          |

| Cable Information |               |                  |                  |
|-------------------|---------------|------------------|------------------|
| Max Diameter      | Max Dimension | Solid Equivalent | Flat Cable Cores |
| 0                 | 51.00 x 1.10  | _                | -                |

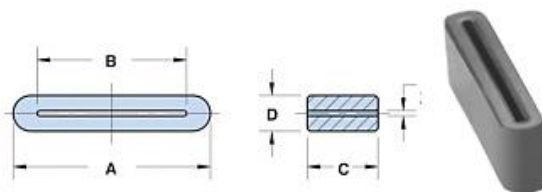


Figure 4

**Chart Legend**

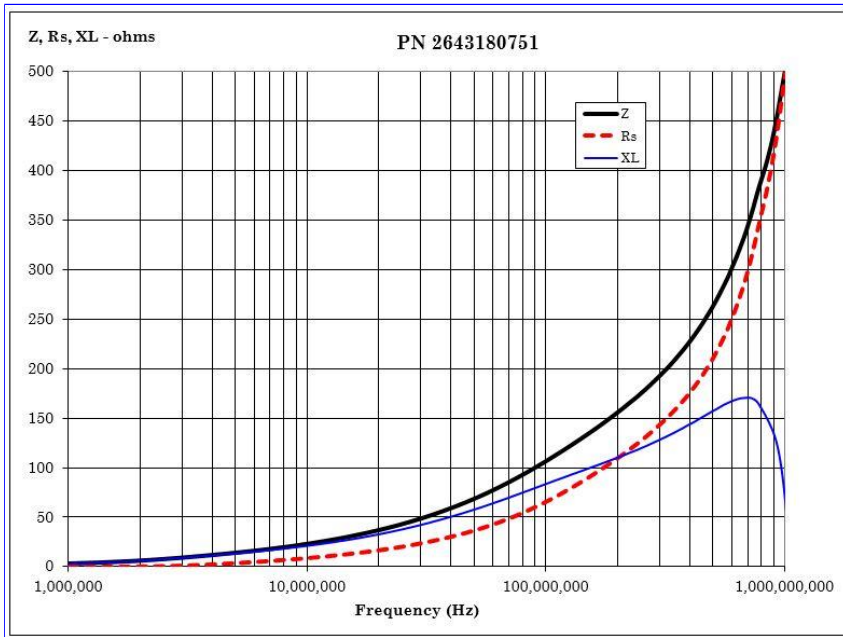
- + Test frequency
- For assembly clips see Flat Cable Cores Assembly Clips

| Typical Impedance (Ω) |     |
|-----------------------|-----|
| 10 MHz                | 23  |
| 25 MHz <sup>+</sup>   | 43  |
| 100 MHz <sup>+</sup>  | 106 |
| 250 MHz               | 174 |

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 listed on our catalog drawing.

[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.



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