

# Flat Cable EMI Suppression Cores (2643172551)



Part Number: 2643172551

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: 6.8 (g)

| Dim | mm   | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A   | 33.5 | ±0.65  | 1.319        | —          |
| B   | 27   | ±0.50  | 1.063        | —          |
| C   | 8    | ±0.40  | 0.315        | —          |
| D   | 6.5  | ±0.25  | 0.256        | —          |
| E   | 1.25 | +0.71  | 0.063        | —          |

| Cable Information |               |                  |                  |
|-------------------|---------------|------------------|------------------|
| Max Diameter      | Max Dimension | Solid Equivalent | Flat Cable Cores |
| 0                 | 26.50 x 1.25  | —                | -                |

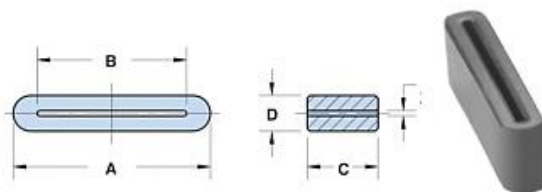


Figure 4

**Chart Legend**

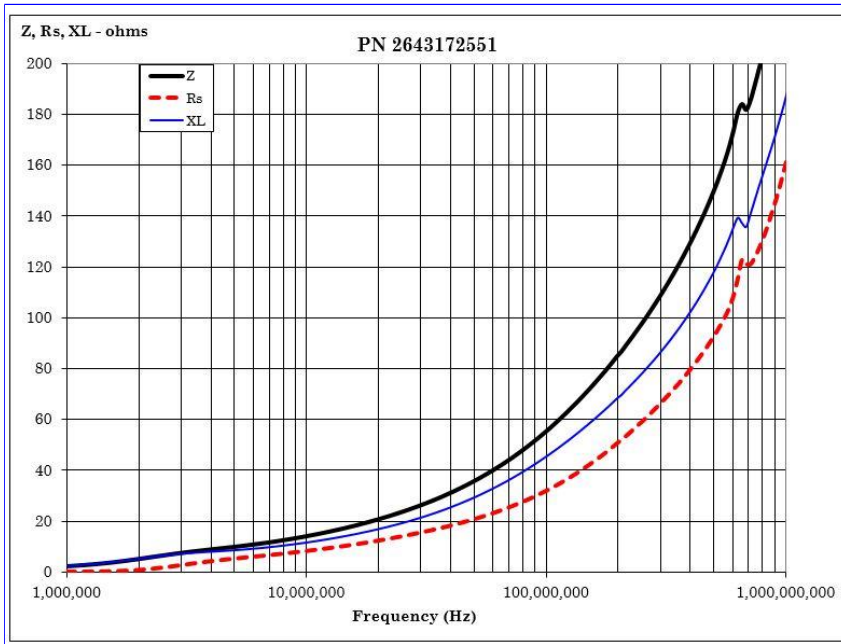
- + Test frequency
- For assembly clips see Flat Cable Cores Assembly Clips

| Typical Impedance (Ω) |    |
|-----------------------|----|
| 10 MHz                | 14 |
| 25 MHz <sup>+</sup>   | 24 |
| 100 MHz <sup>+</sup>  | 55 |
| 250 MHz               | 98 |

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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