

# Flat Cable EMI Suppression Cores (2643169351)

Part Number: 2643169351

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: 12 (g)

| Dim | mm    | mm tol | nominal inch | inch misc. |
|-----|-------|--------|--------------|------------|
| A   | 33.65 | ±0.75  | 1.325        | —          |
| B   | 27.5  | ±0.50  | 1.083        | —          |
| C   | 13.2  | ±0.50  | 0.52         | —          |
| D   | 6.7   | ±0.40  | 0.264        | —          |
| E   | 1.35  | ±0.25  | 0.053        | —          |

| Cable Information |               |                  |                  |
|-------------------|---------------|------------------|------------------|
| Max Diameter      | Max Dimension | Solid Equivalent | Flat Cable Cores |
| 00                | 27.00 x 1.10  | —                | -                |

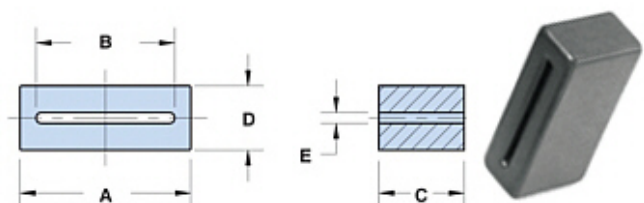


Figure 3

### Chart Legend

+ Test frequency

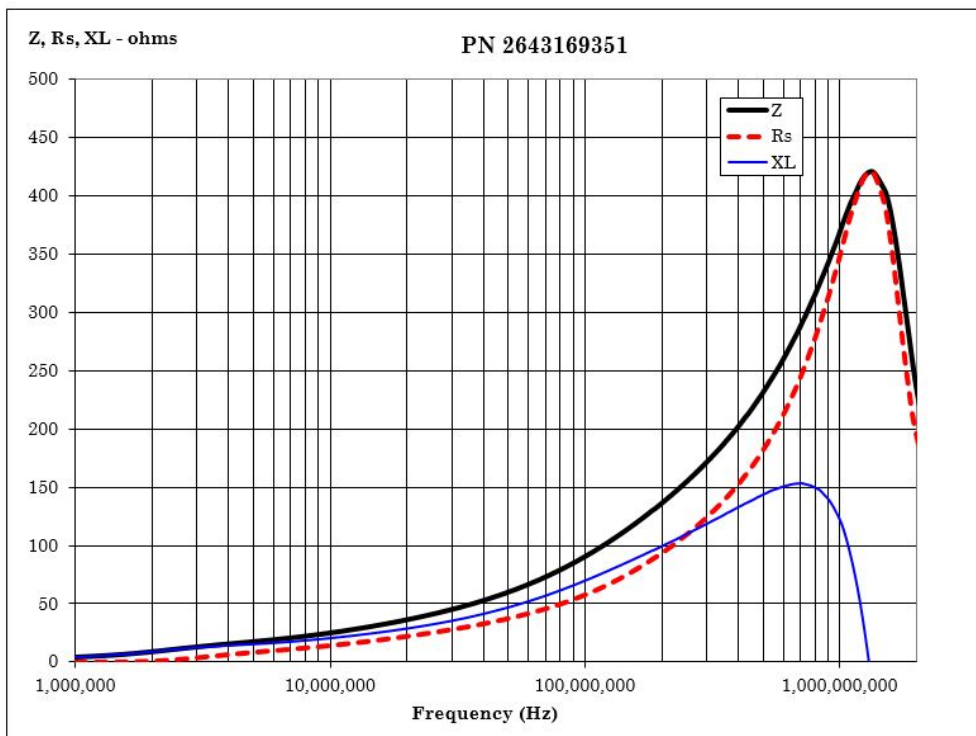
• For assembly clips see Flat Cable Cores Assembly Clips

| Typical Impedance ( $\Omega$ ) |    |
|--------------------------------|----|
| 10 MHz                         | 25 |
| 25 MHz <sup>+</sup>            | 41 |
| 100 MHz <sup>+</sup>           | 60 |
| 250 MHz                        | 91 |

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                         | 22  |
| 25 MHz <sup>+</sup>            | 37  |
| 100 MHz <sup>+</sup>           | 89  |
| 250 MHz                        | 170 |



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