

# Flat Cable EMI Suppression Cores (2643170251)

Part Number: 2643170251

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: 3.5 (g)

| Dim | mm    | mm tol | nominal inch | inch misc. |
|-----|-------|--------|--------------|------------|
| A   | 22.75 | ±0.65  | 0.895        | —          |
| B   | 12.7  | ±0.50  | 0.5          | —          |
| C   | 12.7  | ±0.50  | 0.5          | —          |
| D   | 3.3   | -0.25  | 0.125        | —          |
| E   | 1.15  | +0.25  | 0.05         | —          |

| Cable Information |               |                  |                  |
|-------------------|---------------|------------------|------------------|
| Max Diameter      | Max Dimension | Solid Equivalent | Flat Cable Cores |
| 0<br>0            | 12.20 x 2.30  | —                | -                |

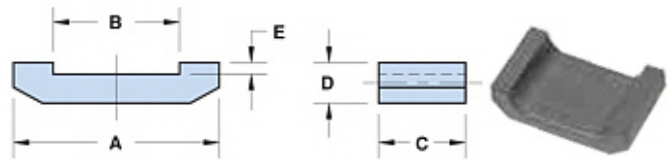


Figure 2

### Chart Legend

+ Test frequency

• For assembly clips see Flat Cable Cores Assembly Clips

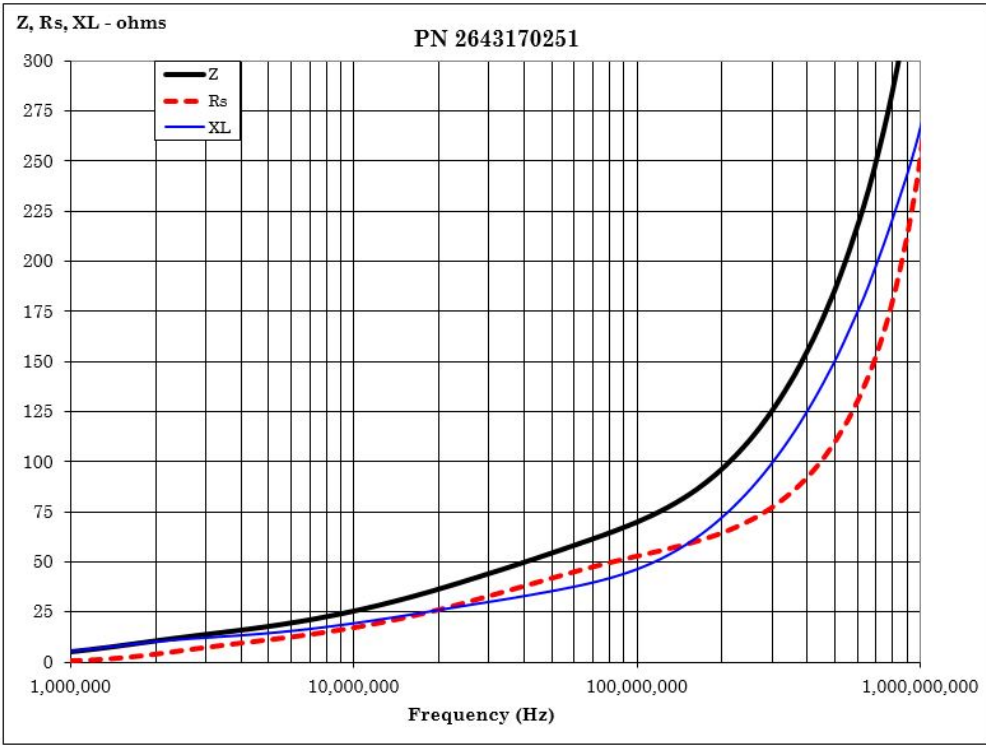
| Typical Impedance ( $\Omega$ ) |     |
|--------------------------------|-----|
| 10 MHz                         | 25  |
| 25 MHz <sup>+</sup>            | 41  |
| 100 MHz <sup>+</sup>           | 70  |
| 250 MHz                        | 111 |

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 Impedance ( $\Omega$ ) |     |
|--------------------------------|-----|
| 10 MHz                         | 20  |
| 25 MHz <sup>+</sup>            | 35  |
| 100 MHz <sup>+</sup>           | 70  |
| 250 MHz                        | 135 |



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Fair-Rite Products Corp. • One Commercial Row, Wallkill, New York 12589-0288

888-324-7748 • 845-895-2055 • Fax: 845-895-2629 • ferrites@fair-rite.com • www.fair-rite.com