

Flat Cable EMI Suppression Cores (2643166651)

Part Number: 2643166651

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.

Clip Part Number: 0199001401 , 0199016551

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: 36 (g)

| Dim | mm | mm tol | nominal inch | inch misc. |
|-----|------|--------|--------------|------------|
| A | 45.1 | ±0.75 | 1.776 | - |
| B | 34.4 | ±0.70 | 1.354 | - |
| C | 28.6 | ±0.70 | 1.126 | - |
| D | 6.35 | ±0.25 | 0.25 | - |
| E | 0.85 | ±0.20 | 0.033 | - |

| Cable Information | | | |
|-------------------|---------------|------------------|------------------|
| Max Diameter | Max Dimension | Solid Equivalent | Flat Cable Cores |
| 0 | 33.70 x 1.30 | - | - |

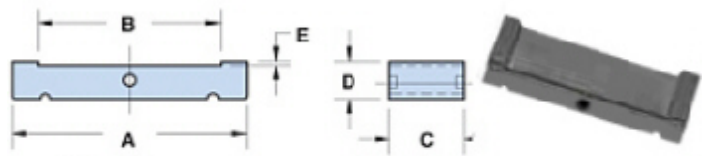


Figure 1

Chart Legend

+ Test frequency

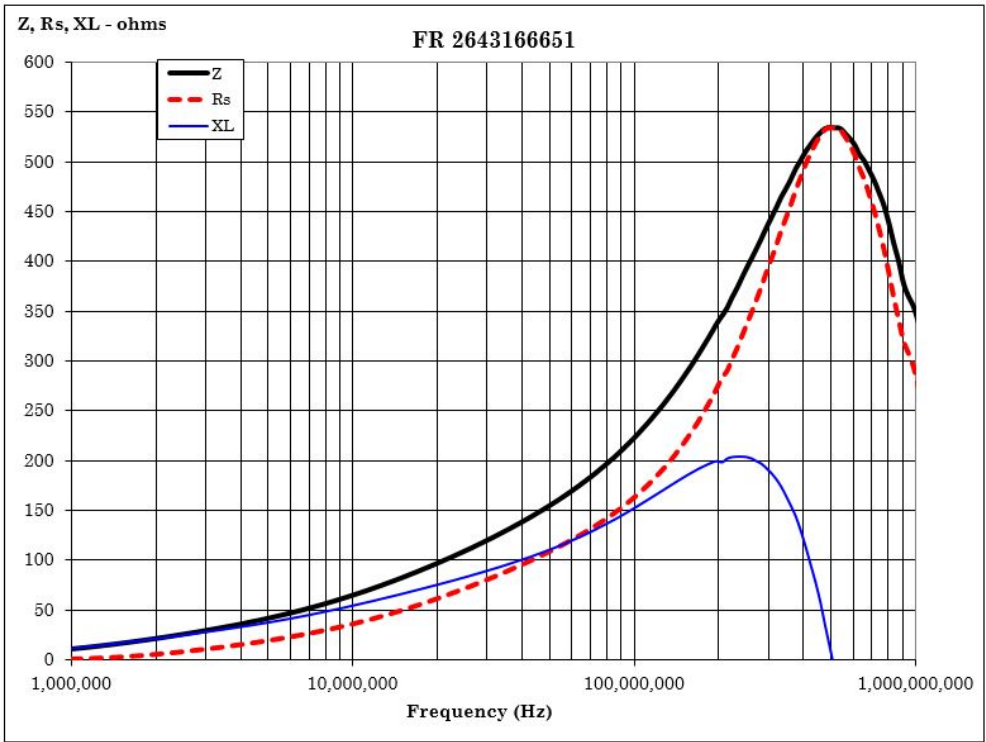
• For assembly clips see Flat Cable Cores Assembly Clips

| Typical Impedance (Ω) | |
|--------------------------------|-----|
| 10 MHz | 65 |
| 25 MHz ⁺ | 109 |
| 100 MHz ⁺ | 223 |
| 250 MHz | 390 |

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 (Ω) | |
|--------------------------------|-----|
| 10 MHz | 60 |
| 25 MHz ⁺ | 110 |
| 100 MHz ⁺ | 290 |
| 250 MHz | 435 |



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