

Part Number: 0344184751

## 44 OVAL CABLE CORE ASSEMBLY

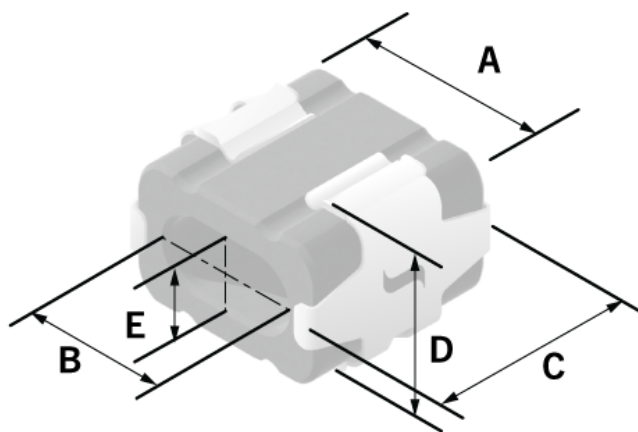
### Explanation of Part Numbers:

- Digits 1 & 2 = Product Class
- Digits 3 & 4 = Material Grade

The B dimension is the core inside diameter.

Weight: 65 (g)

| Dim | mm    | mm tol  | nominal inch | inch misc. |
|-----|-------|---------|--------------|------------|
| A   | 30.43 | +/- 1.0 | 1.20         | —          |
| B   | 19.20 | —       | 0.75 min     | —          |
| C   | 29.90 | +/- 1.0 | 1.18         | —          |
| D   | 23.0  | +/- 1.0 | 0.91         | —          |
| E   | 9.2   | —       | 0.36 min     | —          |



### Chart Legend

+ Test frequency

• For solid cable cores, see Round Cable EMI Suppression Cores

| Typical Impedance ( $\Omega$ ) |     |
|--------------------------------|-----|
| 25 MHz <sup>+</sup>            | 114 |
| 100 MHz <sup>+</sup>           | 178 |

| Electrical Properties             |       |
|-----------------------------------|-------|
| Ae(cm <sup>2</sup> )              | 1.27  |
| $\Sigma l/A$ (cm <sup>-1</sup> )  | 0.583 |
| l <sub>e</sub> (cm)               | .741  |
| V <sub>e</sub> (cm <sup>3</sup> ) | 94.10 |

Round cable snap-it assemblies are controlled for impedances only. Minimum impedance values are specified for the + marked frequencies. The minimum impedance is typically the listed impedance less 20%.

Single turn impedance tests for 31, 43 and 46 material cores are performed on the E4991A/HP4291B Impedance Analyzer. The 61 material parts are tested on the E4991A / HP4291B Impedance Analyzer and 75 material parts are tested on the E4990A Impedance Analyzer. Cores are tested with the shortest practical wire length.

| Typical Impedance ( $\Omega$ ) |     |
|--------------------------------|-----|
| 25 MHz <sup>+</sup>            | 114 |
| 100 MHz <sup>+</sup>           | 178 |

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