

Innovative **Technology** for a **Connected** World

Online Catalog

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Request Information

Item # 28B0500-100, Broadband Solid Ferrite Cores for Round Cables and Wiring Harnesses

Stock Locator

Laird Technologies' Cylindrical EMI suppression ferrites provide a cost effective means of reducing common and differential mode EMI. These cores are most frequently used to suppress common mode EMI on the internal and external cable assemblies of electronic equipment. By decreasing the levels of EMI radiated by internal cables, ferrite cores can reduce the cost and amount of overall shielding required to confine EMI within a product's enclosure. They may also be successfully used on power cables that carry digital or analog signaling. To achieve maximum EMI filtering performance in a given application, select a ferrite with an inner diameter most closely matching the outer diameter of the wire or wire bundle to be filtered. The in-circuit impedance may be substantially increased by passing 2 turns of the wire conductor through the ferrite core. A typical common mode application might have two conductors passed through a ferrite core. With equal and opposite currents flowing through the core, zero net bias is established through the component, and maximum impedance is thus realized from the ferrite.

MORE IMAGES

Impedance Curves

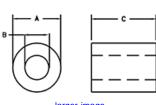
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Cable Core Catalog (ASP) View Print

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Specifications <u>F</u>	eatures Applications
Figure Number	1
Typical Z Ohms at 25	33
Nominal Z Ohms at 100 MHz	83
Typical Z Ohms at 300 MHz	200
Dimension A	12.70 mm 0.500 in
Dimension B	7.92 mm 0.312 in
Dimension C	6.35 mm 0.250 in
Material Type	Broad Band Material
Product Type Code	Round Cylindrical Cores
Part Size Code	0500
Additional Description	Standard Part

Specifications	Features	Applications
Specifications	reatures	Applications

Wide range of sizes with inner diameters from 0.90 mm (0.035") to 35.65 mm (1.400"). Precision formed smooth surfaces prevent damage to wire insulation. Available in Steward broad band (28), high frequency (HF) and Low frequency (LF) materials. Custom designs available.

Applications Specifications Features

- Internal and external computer data and power cables
 Products with limited PC board space available for surface mount components
- · Printer cables
- Power supply cablesMonitor cablesUSB Cables