

Online Catalog

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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.

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Specifications	Features	Applications
Figure Number	1	
Typical Z Ohms at 25 MHz	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
<p>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.</p>		

Specifications	Features	Applications
<ul style="list-style-type: none"> • Internal and external computer data and power cables • Products with limited PC board space available for surface mount components • Printer cables • Power supply cables • Monitor cables • USB Cables 		