VERMALLOY®

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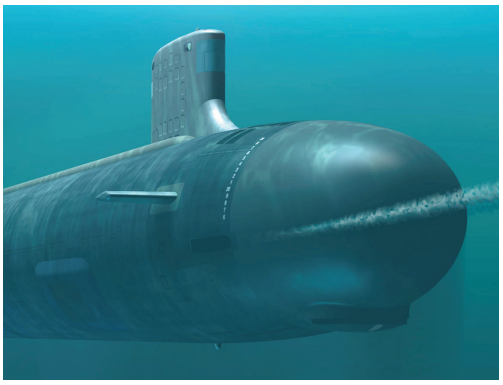
ensures vital plays are securely transmitted to the quarterback during NFL games and the commander-in-chief's communications are safe aboard Air Force One. Vermalloy®, our exclusive shielding material for low frequency applications, is widely recognized as the most effective secure voice shielding material available. It's also an excellent magnetic shield for EMP applications.

In conjunction with other materials, Vermalloy® can enhance the shielding properties of the cable. Its high permeability lowers the effect of magnetic and electrical interference by increasing absorption losses giving you a wide spectrum of design possibilities.

You need to solve EMI problems, Vermalloy® can do that for you.



VERMILLION INCORPORATED

CUSTOM CABLE SOLUTIONS

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Vermalloy® Effectiveness Test Data Magnetic (H-Field)

Loop area minimization lowers a system's susceptibility to electromagnetic fields and reduces potential emissions of electromagnetic energy.

When referring to the test data chart, note that the smaller the loop area number, the better your results.

Vermillion engaged D.L.S. Electronic Systems, Inc., Glenview, Illinois, to run tests on various shielding configurations to determine the Magnetic Shield Effectiveness, expressed as "Effective Loop Area", of these different designs. The Test Frequency Range was 300 Hz - 100 kHz.

	Average Effective Loop Area
• Twisted pair with Vermalloy® 622 braided shield, clear mylar wrap, tinned copper braided shield, and a heat shrink jacket. Shielding was 95% coverage	.0009
• Twisted pair with Vermalloy® 622 braided shield (95% coverage) and heat shrink jacket	.0022
• Twisted pair with Vermalloy® 3948 braided shield (95% coverage) and heat shrink jacket	.0035
• Twisted pair with copper mylar wrap, tinned copper braided shield, drain wire, tinned copper braided shield and heat shrink jacket. Braided shielding was 95% coverage	.0233