

Title (en)

Method and apparatus for line isolation and interference shielding for a shielded conductor system.

Title (de)

Verfahren und Apparat für die Linien-Isolierung und Interferenz-Abschirmung für ein abgeschirmtes Leitersystem.

Title (fr)

Méthode et appareil pour l'isolation d'une ligne et la protection contre l'interférence pour un système conducteur protégé.

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Application

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Abstract (en)

A method and structure is disclosed for isolating the shield of a shielded conductor system from a low frequency power source to which the shield may be connected. In a preferred embodiment, the isolation technique includes providing an interruption in the conductor's shield and situating within the interruption dielectric and magnetically absorptive material so as to create at least a pair of capacitances across the interruption, and such that the capacitances are separated by magnetically absorptive material. In this manner, low frequency isolation is achieved and the field within the cable is shielded from ambient high frequency electromagnetic interference which could otherwise leak through the interruption into a desired high frequency signal path within the conductor.

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