



NOTE: EMC & GROUND LOOPS.

There is a direct conflict between the requirement for sound EMC practice, which requires that BOTH ends of a cable screen are electrically bonded to respective chassis/ground points on an installation where the Octal Buffer and the respective sources and destinations may be physically separated within that installation,

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The Audio requirement NOT to create ground loops, where cable screens will carry currents which attempt to equalise these different earth potentials. Such circulating currents create artifacts which manifest themselves as an objectionable audible buzz or hum impressed on the audio signal.

Often a satisfactory solution to this dilemma is to directly bond the cable screen to ground at one end ONLY, and to bond the other end (for HF purposes) using a small capacitor of perhaps 1nF (1000pF).

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