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Subject: EMI and .050 Series Connectors

While designing a SCSI host adapter with the SCSI-2 .050" shielded connector, we at BiiN have run into a problem making a good EMI seal around the connector. The BiiN cardcage is similar to VME type cardcages in that each board has an extruded bezel that makes contact with the bezels of adjacent boards to form an EMI tight seal. The problem (refer to the attached drawing) is that there is not enough distance between the solder pins on the connector and the face of the connector. Consequently, the connector face is well inside the plane of the extrusion, making a good EMI seal very difficult. The shell around the connector on the end of the cable must actually come inside the plane of the extrusion to mate with the board's connector. Extending the length of the printed circuit board so that the connector can be moved out has the problem that the solder pins of the connector will then short on the bezel.

Is there a known solution to this problem? If not, could the committee give some attention to its solution, since we believe the problem to be generic to VME, Multibus and other formfactors that depend on a bezel for EMI containment.

Sincerely,

Rick Coulson
I/O Engineering Manager
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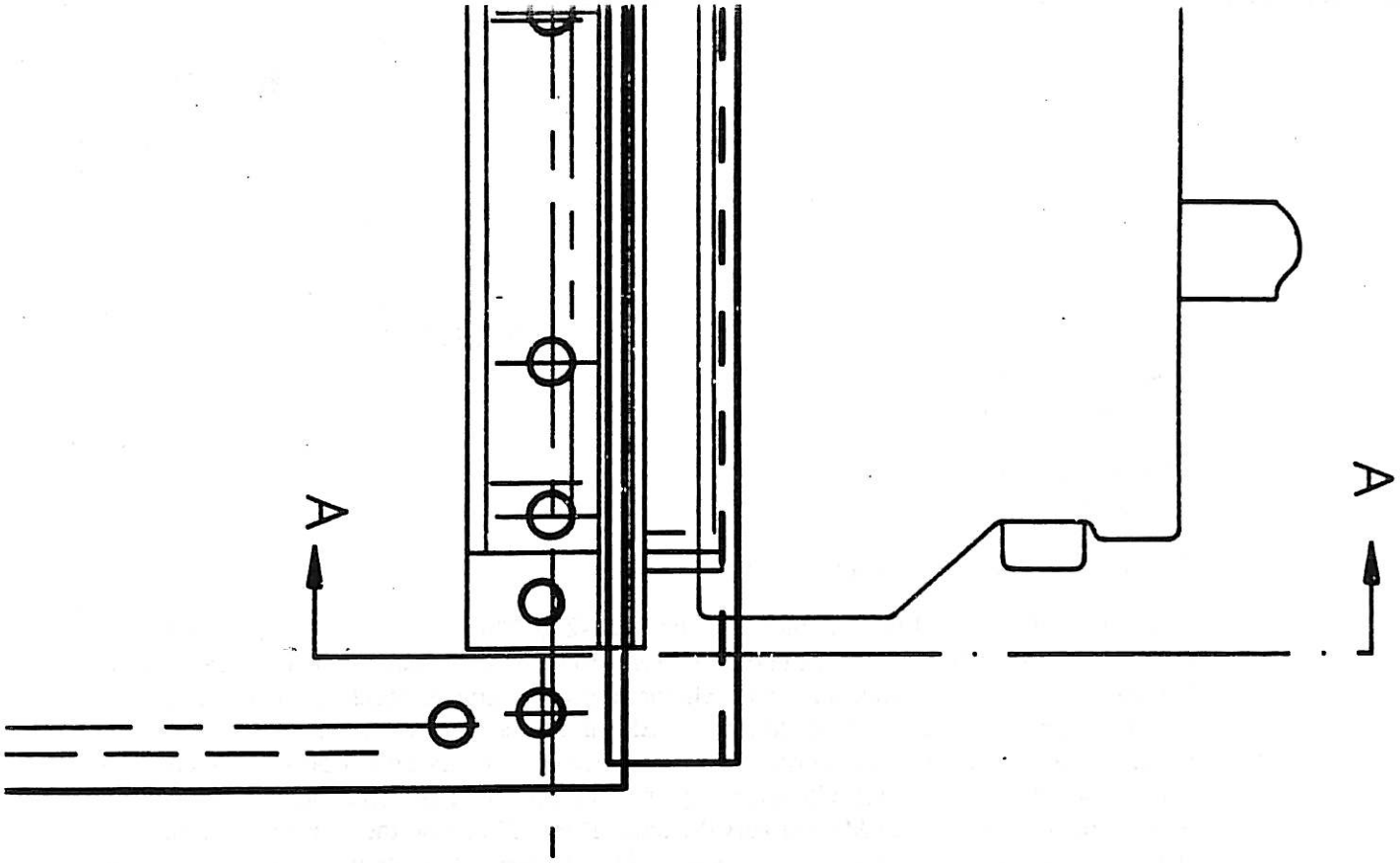
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