

PROPOSAL FOR MODIFICATIONS TO WORDING IN SECTION 4.2.1.1, AND FIGURE 4-7

Proposed changes are highlighted

4.2.1.1.1 Connector Plug

(Paragraph 2 reworded)

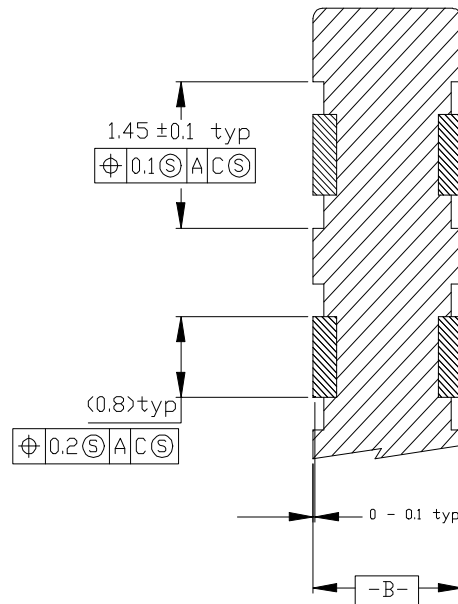
It is suggested that the plug contacts have a cylindrical section in the contact area that makes contact at a right angle to the cylindrical section of the socket contacts, thus creating a “crossed cylinders” configuration. The contacts should be designed to create a theoretical Hertzian stress (combination of cylindrical radius, normal force, and base and surface material hardnesses) of 1,550,000 – 1,900,000 kPa in the mating area. This is to assure that the low-energy signals used in this physical layer are transmitted through the nonconductive films that are typically absorbed on connector contacts.

4.2.1.1.3 Connector Socket

(Insertion of wording between last two sentences)

It is likely that there will be several variations of sockets to meet differing mounting orientation requirements, panel/bulkhead mounting, and/or assembly techniques. The socket contacts may also vary, as shown in Alternative Section D-D of Figure 4-7, to allow for performance enhancement of the connector, while remaining plug compatible. Regardless of these variations, the connectors must adhere to the performance criteria defined in 4.2.1.3. The holes and patterns (footprint) for the mounting of some of the possible versions of connectors to the printed circuit board (PCB) are recommended in annex I.

The following figure would be added to figure 4-7 of IEEE1394-1995.



Alternative Section D - D (Flat Contacts)