X3T9.2/88-111

STEWART STAMPING CORPORATION

Insilco

9-2-88

NCR
3718 North Ridge Road
Wichita, Ka. 67226

Attn: John Lohmeyer, chairman X3T9.2

Dear John,

After considerable discussion of the merits and drawbacks of the flat ribbon cables with .025 center conducter spacings the working group at San Jose concluded that SCSI-2 should continue to reccommend a cable with a characteristic impedence of 90 to 130 ohms. Use of fine pitch (.025) spaced cable should be addressed as a SCSI-3 issue when appropriate.

Assuming the membership agrees with this conclusion, the net effect is that the T&R connectors chosen to provide daisy chaining of the .025 spaced cable cannot be used as anticipated.

In consideration of the above, and with the addition of new information regarding intercompatibility with the external T&R connectors, Stewart and Viking propose that the X3T9.2 committee consider the following proposal for selecting the DAISY-GEN connector as the standard for SCSI-2 internal cable end and daisy chain interconnections.

The Stewart / Viking proposal consists of the following:

- Definition of the internal daisy chaining requirement.
- Confirmation of SCSI-2 compatible transmission characteristics.
- Techniques for interconnecting to exterior shielded T&R connectors and SCSI-1 connectors.
- Selection of twisted pair cable for compatible pin-out and fan out characteristics.
- Detail photographs and micro section of DAISY-GEN contacts terminated to the conducters.
- Performance characteristics of DAISY-GEN connector.

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In addition to the above we will have prototypes of our cable assemblies and headers. These will demonstrate how the DAISY-GEN connector system can be used to provide internal daisy chaining as well provide the internal interface to the T&R exterior connections.

Best personal regards.

David A. Hatch
Manager of Advanced Product
Development and Engineering