

## STEWART STAMPING CORPORATION

Insilco

To: X3T9.2 SCSI Committee Members

From: David A. Hatch  
Stewart Connector Systems  
13 Pleasant Street  
Sherborn, Mass. 01770

Subject: Stewart Connector presentation  
at 10-10/11-88 plenary meeting

Fellow Members,

As the agenda indicates Stewart Connector is presenting a revised proposal and a progress report on our connector design for providing daisy chainable interior connections. This presentation will focus on three primary issues; compliance to the SCSI-2 electrical standards, compatibility to T&R connectors as well as to the low density SCSI-1 connectors and the commitment of Stewart, Viking and our new partner Thomas & Betts to the successful production of this connector.

Since the 'compatibility' issue addresses such items as 'pinouts', cable orientation, twisted pairs, stub lengths and intercabling to the old SCSI-1 connectors we felt that it would be helpful for you to have this information in advance. This will give you the opportunity to discuss this with your 'packaging engineer' prior to the meeting.

If there are some aspects of this proposal that raise questions or need clarification give us a call at the number below.

We are running out of time on this SCSI-2 document and this pre-notice may help expedite the internal connector/cable issue.

Included are three drawings showing:

..orientation (folding) of the flat ribbon cable as it transitions from the DAISY-GEN high density connectors to a SCSI-1 low density connector. The resulting pin outs are also shown. Using Twist and Flat type cable this way allows the twisted pair at the crease to stay together..no signal integrity issue is involved as these two outer conductors are term power and open .

..terminations to bulkhead mounted T&R connectors will require individual conductors for termination. Use of typical .050 spaced pvc cable allows each insulated conductor to be separated from the others for discrete termination.

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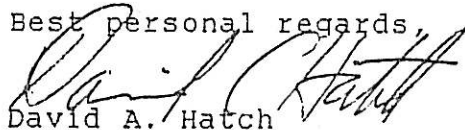
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..'pinouts' from terminating two layers of cable in the 'fold over' configuration result in 'signal and ground' (or in differential mode +5 and -5) pairs that are side by side.. This pin out configuration allows the header to offer a solder tail footprint that is on .050 by .075 centers.

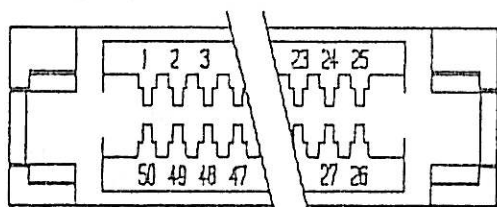
Since the .025 spaced cable has been rejected by the working group at San Jose this SCSI-2 standard does not yet have a high density connector to provide internal daisy chaining. We are in fact at the eleventh hour with this internal connector standard.. and your participation and your vote are very important to the resolution of this issue.

It's beautiful in Boston in early October and we hope you can make it here for this very pivotal meeting.

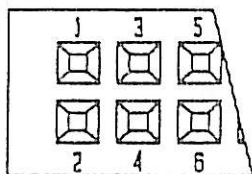
Best personal regards,

A handwritten signature in dark ink, appearing to read "David A. Hatch", written over the typed name.

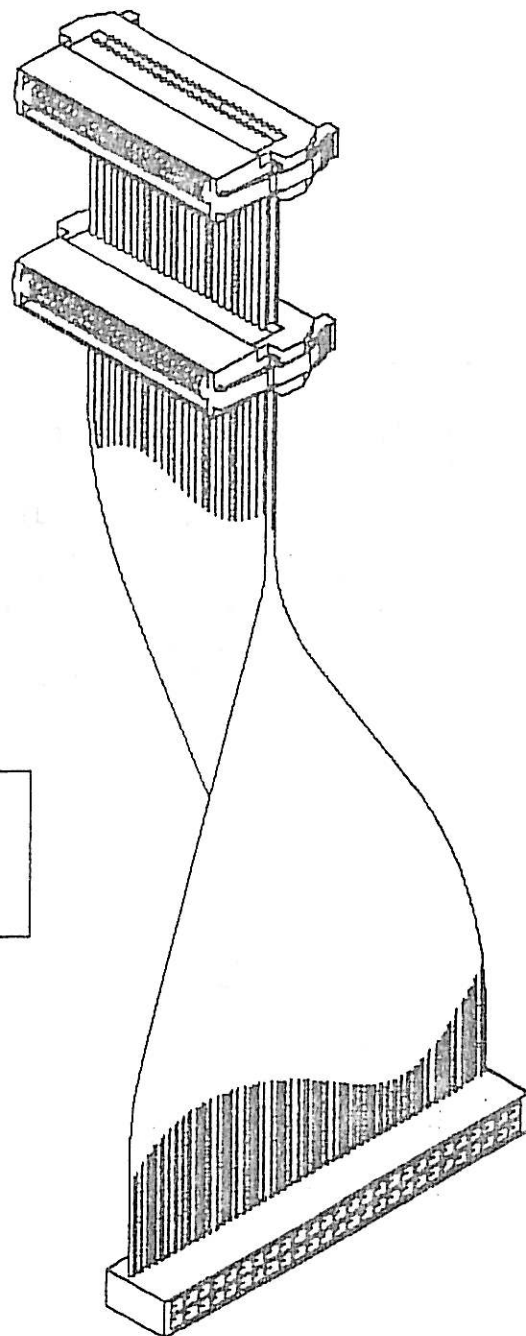
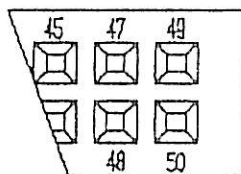
David A. Hatch  
Manager of Advance  
Development and Engineering



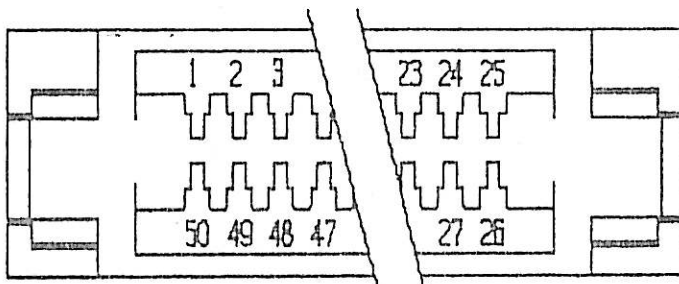
DAISY-GEN



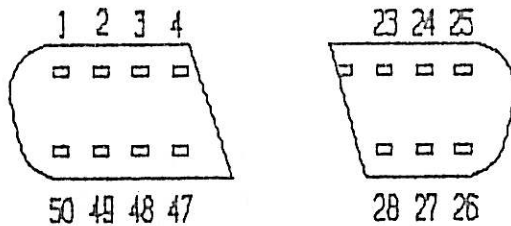
LOW DENSITY SCSI-1



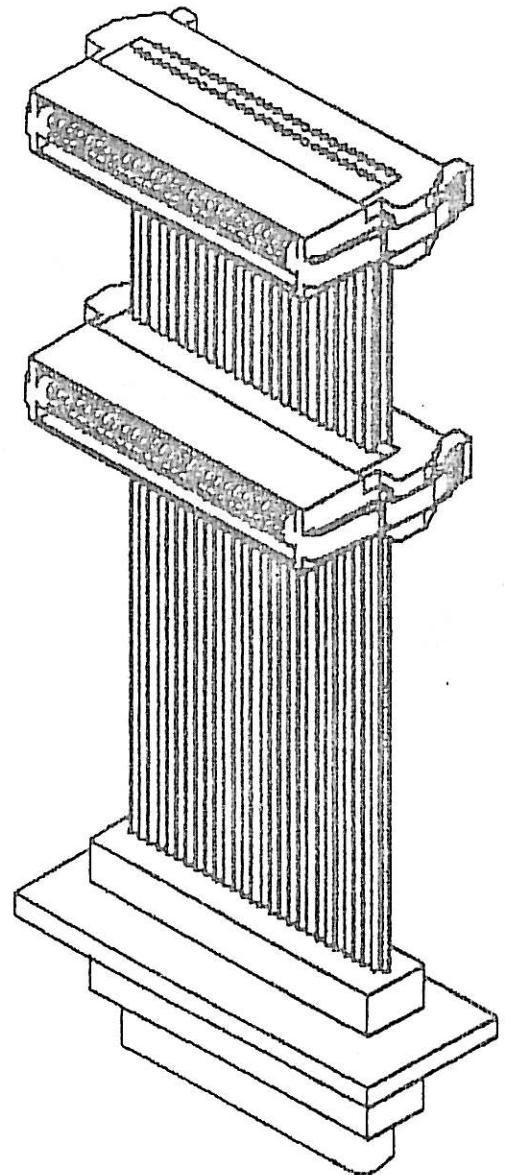
INTERCABLING DAISY-GEN / SCSI-1



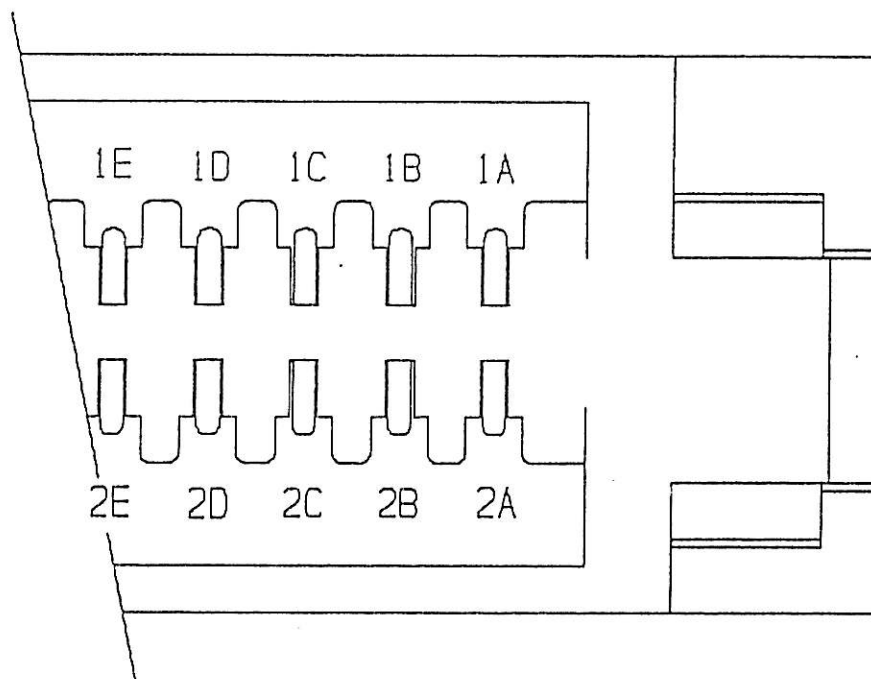
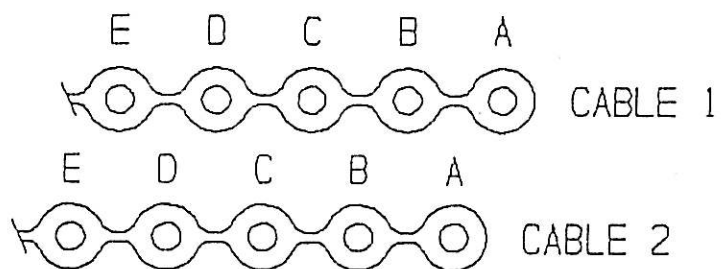
DAISY-GEN



T & R



INTERCABLING DAISY-GEN / T & R



PIN-OUT for DIFFERENTIAL SIGNALS