

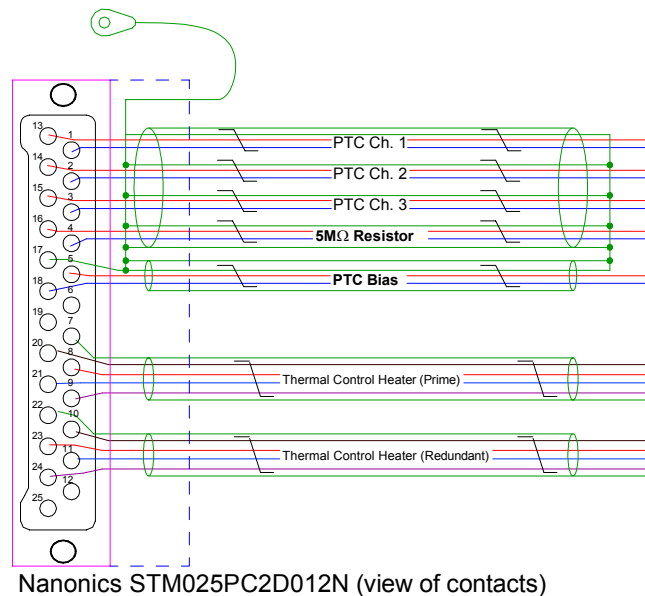
SPIRE-RAL-COM-001508

Thursday, 23 January 2003

From: Doug Griffin

To: Len Husted

Re: Updating information on PTC Harnessing for SPIRE HDD and SPIRE BDA to JFET HDD.



FPU F28

- One 12-ax (signals)
- One STT (Bias)
- Two 38AWG SS STQ (Heaters)
- The 12-ax and the STT pass through FPU Feedthru B2 in the wall of the FPU and connect to JFS J14 (a 51-way MDM)
- The STQs terminate on 5-way Bespoke 1:1 connectors and join into F20 and F21
- each cable is jacketed

Hi Len,

I would like to confirm some of the PTC wiring details that will be inserted into the SPIRE Harness Def. 1.1 and the BDA-JFET Wiring Document.

1. Tekdata will add one extra 12-ax and one extra STT in the feedthru for the SLW in case during the CQM programme, it is determined that PTC is necessary for the PFM. These two cables will be left un-terminated in the STM/CQM versions of the BDA-JFET harnesses. They will be secured to the Spectrometer Detector Box with lacing cord inside the FPU. They will be secured to the F15 harness outside the FPU with lacing cord
2. In the current version of the BDA-JFET harness document, the connector for the PTC is specified as a 21-way MDM. I propose to change this to a 25-Way Nanonics. This is because (a) the nanonics connector is smaller and lighter than the MDM. We need to minimise the mass of the components on the Spectrometer Detector Box, (b) there are tapped holes on the nanonics connector body that could be used to screw the connectors to the spectrometer detector box, (c) the dimensions of the connector are smaller, so it would be more easily accommodated on the spectrometer detector box. Could you please confirm that the pin allocation is OK? The above Figure will be inserted into the HDD 1.1 if it is OK.
3. I have included the ground connection between the harness and the detector box near the nanonics connectors shown in the above figures. This will be a tab that is screwed

under the head of the BDA mounting screws. The other detector harnesses will have a similar tabs under the heads of the BDA mounting screws.

4. The cables called up in the documentation implicitly have insulation jackets.

Len, would you please review this note and provide me with comments on the points raised?

Regards

Doug Griffin
Monday, 27 January 2003