



Procedure

Herschel

Title: **REWORK OF PFM SPIRE SVM DCU & FCU SIH
CONNECTOR OVER-SHIELD AND FCR**

CI-No: 121432-03

Prepared by:	J. Lang <i>J. Lang</i>	Date:	16.04.2007
	W. Hund <i>W. Hund</i>		26.04.2007
Checked by:	A. Knoblauch <i>A. Knoblauch</i>		24.04.2007
Product Assurance:	R. Stritter <i>R. Stritter</i>		26.04.07
Configuration Control:	W. Wietbrock <i>W. Wietbrock</i>		26.04.07
Project Management:	Dr. W. Fricke <i>W. Fricke</i>		26/04/2007

Distribution: See Distribution List (last page)

Copying of this document, and giving it to others and the use or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. All rights are reserved in the event of the grant of a patent or the registration of a utility model or design.

Issue	Date	Sheet	Description of Change	Release
1.0	16.04.07	All	Initial Issue	

Table of Content

1	Scope	6
1.1	Objective	6
1.2	Flow	6
2	Documents/Drawings	7
2.1	Applicable Documents	7
2.2	Reference Documents	7
2.3	Other Documents	7
2.4	Abbreviations	7
3	Requirements to be verified	8
4	Configuration	9
4.1	SVM and SPIRE SIH Configuration	9
5	Conditions	10
5.1	Personnel	10
5.2	Environmental	10
5.3	General Precautions and Safety	11
5.3.1	General Safety Requirements, Precautions	11
5.3.2	ESD constraints	12
5.3.3	Special QA Requirements	12
5.4	GSE	13
5.4.1	MGSE	13
5.4.2	EGSE	13
6	Verification Requirements and Test Criteria	14
7	Step by Step Procedure	15
7.1	FCR and Over-Shield Rework Manufacturing Log	18
7.2	PFM SVM SPIRE SIH Bundle Rework Method (chronological sequence pictures)	21
8	Summary Sheets	50

8.1	PFM SVM SPIRE SIH Bundle Massproperty after Rework	51
8.2	PFM SVM SPIRE SIH Bundle Over-shield Bonding Resistance-Test (SVM Plug-BS to DCU, FCU SIH BS)	54
8.2.1	PFM SVM SPIRE SIH Bundle FCR Continuity-Resistance Test	57
8.2.2	SPIRE SVM SIH EICD Extracts (Wiring-lists)	88
8.3	PFM SVM SPIRE SIH Bundle Discharge prior to SIH Bundle Integration	114
8.4	PFM SVM SPIRE SIH Bundle Re-Integration after Rework	115
8.5	Reworked SIH Bundles and Integration Pictures (to be add after rework)	118
9	Summary Sheets	119
9.1	Procedure Variation Summary	120
9.2	Non Conformance Report (NCR) Summary	121
9.3	Sign-off Sheet	122

List of Tables

Table 5.4-1: MGSE..... 13

Table 5.4-2: EGSE 13

Table 7.1-1: FCR and Over-Shield Rework Manufacturing Log20

Table 8.1-1: PFM SVM SPIRE SIH Bundle Massproperty after Rework 53

Table 8.2-1: PFM SVM SPIRE SIH Bundle Over-shield Bonding Resistance-Test... 56

Table 8.2-2: SPIRE SVM SIH-SS-05 - 312100 P002 59

Table 8.2-3: SPIRE SVM SIH-SS-04 - 312100 P003 61

Table 8.2-4: SPIRE SVM SIH-SS-04 - 312100 P01B..... 62

Table 8.2-5: SPIRE SVM SIH-SS-03 - 312100 P004 64

Table 8.2-6: SPIRE SVM SIH-SS-08 - 312200 P001 66

Table 8.2-7: SPIRE SVM SIH-SS-09 - 312200 P002 68

Table 8.2-8: SPIRE SVM SIH-SS-06 - 312200 P003 70

Table 8.2-9: SPIRE SVM SIH-SS-07 - 312200 P004 72

Table 8.2-10: SPIRE SVM SIH-SS-02 - 312200 P005 74

Table 8.2-11: SPIRE SVM SIH-SS-02 - 312100 P01A..... 75

Table 8.2-12: SPIRE SVM SIH-SS-01 - 312200 P006 77

Table 8.2-13: SPIRE SVM SIH-SS-13 - 312300 P003 79

Table 8.2-14: SPIRE SVM SIH-SS-13 - 312300 P002 80

Table 8.2-15: SPIRE SVM SIH-SS-11 - 312300 P004 83

Table 8.2-16: SPIRE SVM SIH-SS-11 - 312300 P001 84

Table 8.2-17: SPIRE SVM SIH-SS-12 - 312300 P005 85

Table 8.2-18: SPIRE SVM SIH-SS-10 - 312300 P006 86

Table 8.3-1: PFM SVM SPIRE SIH Bundle Discharge prior to SIH Bundle Integration114

Table 8.4-1: PFM SVM SPIRE SIH Bundle Re-Integration after Rework 117

Table 9.1-1: Procedure Variation Sheet 120

Table 9.2-1: Non-Conformance Record Sheet 121

1 Scope

1.1 Objective

This Procedure covers the harness rework on the PFM SVM SPIRE SIH w.r.t. interconnection of FCR with Over-shield at HSFCU & HSDCU SIH connectors.

1.2 Flow

Rework manufacturing on ESD table

Rework as-built manufacturing photo documentation

SIH bundle mass determination after rework

Continuity-resistance test after rework manufacturing

Pre-integration & mating on integration Dummy-units

Re-Integration on SVM Lateral panel

Reworkreport and attachment to CASA PFM SVM SIH DP

2 Documents/Drawings

2.1 Applicable Documents

AD 1	SPIRE SIH FCR & Over-shd Rework	H-P-ASP-CR-0961
AD 2	PFM SPIRE SIH EICD	HP-2-ASED-IC-0016
AD 3	PFM SVM SIH EIDP	HP-2-CASA-DP-0015
AD 4	Herschel ESD Rules	HP-2-ASED-PR-0062

2.2 Reference Documents

RD 1	Documentation Identification Procedure and Documentation Management	HP-2-ASED-PR-0001
RD 2	PA Plan	HP-2-ASED-PL-0007
RD 3	SPIRE SVM SIH FCR-Over-shield Rework-pictures	HP-ASED-EM-0129-07
RD 4	PFM SVM CCH, SPIRE SIH & WIH Integration	HP-2-ASED-PR-0073

2.3 Other Documents

None

2.4 Abbreviations

For abbreviations see RD 01

3 Requirements to be verified

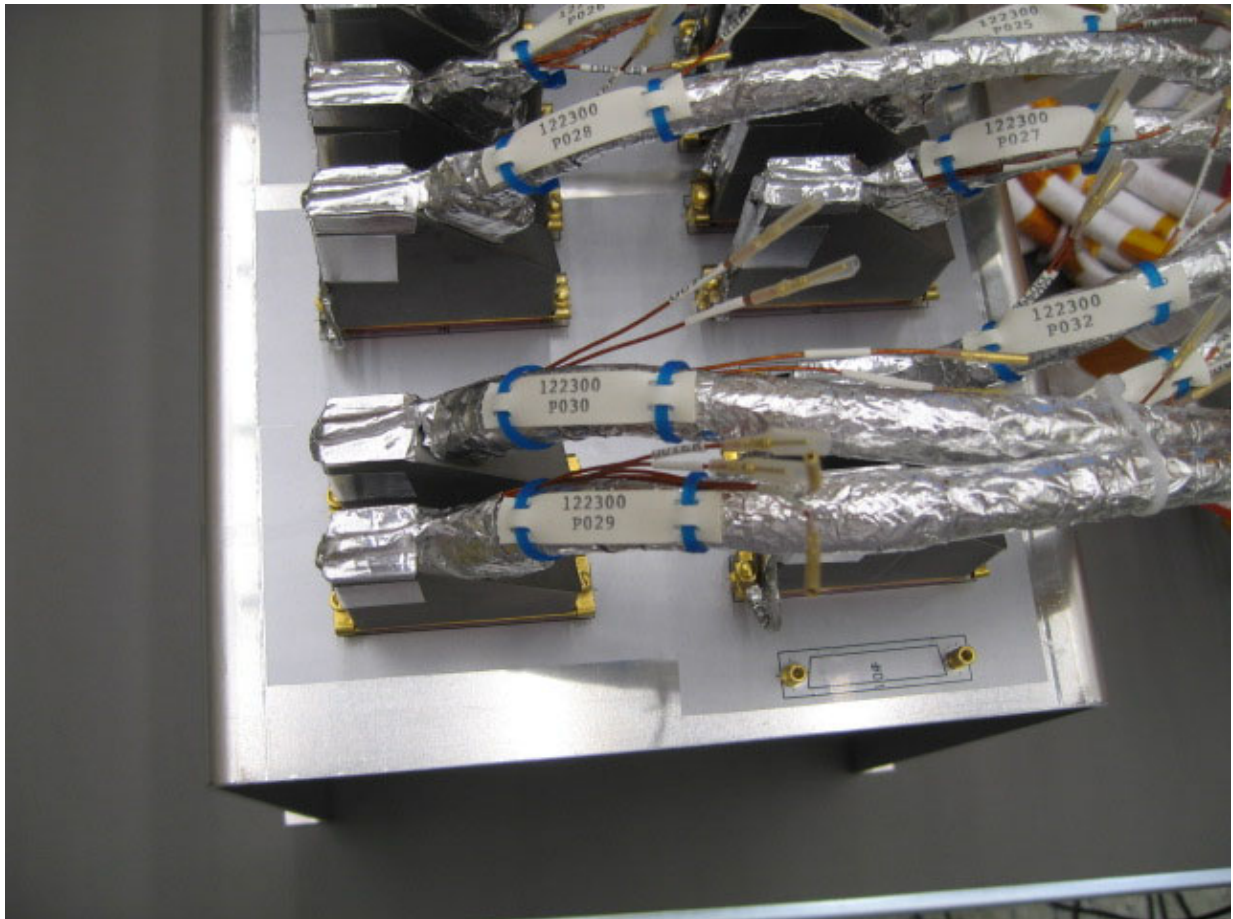
The former FCR = inner SIH bundle over-shield at the SVM SIH connectors on the WU side have been isolated from the SIH bundle outer over-shield, which shall be conductive to the bundle over-shield after the rework. The FCR inner-shield shall be in a circumferential contact to the SIH bundle outer over-shield w.r.t. Instrument EMC reasons.

The continuity-test after rework shall provide this confidence.

4 Configuration

4.1 SVM and SPIRE SIH Configuration

PFM SVM SPIRE SIH mated on the Dummy warm-units have been de-integrated from the SPIRE PFM -Zs SVM lateral panel. The extracted SIH & Dummy warm-units are placed on the ESD Re-work table.



5 Conditions

5.1 Personnel

Personnel necessary to complete activities according to this present procedures

Responsibility	Name / Organization
Manufacturing & AIT Operator 1	U. Woessner
Harness Engineering & AIT	J. Lang
AIT Engineer 1	W. Hund
AIT Engineer 2	A. Grasl
Support Engineer	*)
PA Responsible	*)
Customer Representative	*)

*) Names and possible additional personal to be registered prior to the harness rework test & integration activities.

5.2 Environmental

Environmental	Nominal	Actual	P	N
Clean Room Class	100.000			
Temperature	22°C ± 3°C			
Pressure	ambient			
Rel. Humidity	40 % - 60 %			

5.3 General Precautions and Safety

5.3.1 General Safety Requirements, Precautions

- Respect of the standard technical rules for mechanical and electrical integration and test activities are sufficient.
- Special hazard precautions are not expected, except for the comments mentioned in the step by step procedure for the relevant item
- The flight H/W has to be handled by authorized personnel only
- During non integration phase the flight H/W has to be protected against contamination by appropriate means like blind flanges, caps or protective foils

The following tasks have to be regarded before start of any integration/test activity:

- IRR has been successfully held to ensure that the relevant procedures, drawings, applicable documents are available, reviewed and approved
- Formal release to start with activity is given by QA
- The necessary GSE and H/W is available, accepted and applicable for use
- Safe working conditions for personnel and H/W are existing and will be applied
- Skilled and authorized personnel is available

5.3.2 ESD constraints

During all integration handling activities of the SPIRE SIH on SVM lateral panel attention should be paid to AD 4 (ESD rules for Herschel PLM & S/C Integration Activities)

NOTE: for SPIRE SIH integration on SVM lateral panels with integrated PFM WUs:

The SPIRE instrument contains very sensitive detectors that are susceptible to damage by Electro static discharge. On delivery all connectors will be protected by covers or shorting plugs as appropriate.

During handling, all personnel shall wear anti static protection (wrist straps or other suitable method).

When the Cryo harness is not connected to the DRCU and the FPU Faraday Shield Link connected to Backshell at the warm end, then the FPU is electrically floating and prone to ESD damage.

In case other Units are placed on the ESD table, Herschel ESD rules, AD 4 shall be followed during SIH bundle rework too.

5.3.3 Special QA Requirements

QA shall monitor all operations (rework handlings and installation) as necessary to assure compliance with this procedure and the applicable sections of the PA Plan (RD 2).

In the course of this procedure QA shall pay particular attention to

- integrity of every tightening surfaces and seals
- ensure adequate cleanliness conditions
- ensure that all safety aspects are considered
- the application of adequate protections to critical surfaces
- the records in the log sheet
- to ensure that tools and test equipment used is within current calibration cycle

5.4 GSE

All GSE and integration equipment is fit checked and carries valid calibration certificates.

5.4.1 MGSE

Qty.	Designation/Manufacturer	Provided by	Drawing/Ident. NR:	Calibr. Date
1	Set of manufacturing tools	ASED		
2	SVM Dummy Warm-units	ASED		

Table 5.4-1: MGSE

5.4.2 EGSE

Test Equipment List					
Item	Manuf.	Model No.	SN No.	Invent No.	Next Calib.
DVM IDAS Test-Adaptors IDAS BOBs					

Table 5.4-2: EGSE

6 Verification Requirements and Test Criteria

The former isolated FCR inner SIH bundle over-shield shall be conductive to the bundle over-shield after SIH bundle rework. The confidence shall be provided by the continuity-resistance test, to be performed after manufacturing rework by use of a DVM. The continuity resistance between the FCR inner over-shield (IOS) & the outer over-shield (OOS) shall be measured in the range of [$m\Omega$].

Isolated SIH cable shields former isolated from the IOS & OOS shall stay isolated as before. This configuration shall be measured during this test after the manufacturing rework too.

7 Step by Step Procedure

No:	Activity	Proc/Drwg	Remarks/Results	sign off
1.	The manufacturing operator shall wear ESD bondstraps in case an electronic unit is placed on ESD / Rework table		Remark: Test-step variations to be recorded in Annex-8	
2.	Perform DCU SIH connector rework acc. Ref.5 and record status in manufacturing logsheet Annex-1 & -2			
3.	Perform DCU SIH Bundle Massproperty after Rework and record data in Annex-3			
4.	Perform DCU SIH FCR continuity resistance test on SVM Plug-connectors by use of a DVM according Annex-4			
5.	Perform DCU SIH Over-shd continuity resistance test between SVM Plug-connector Backshell & DCU SIH Connector Backshells by use of a DVM according Annex-5			
6.	Connect DCU SIH Bundles on Dummy-DCU and form SIH Bundles according pre-integration pictures and Ref. 6 in a similar shape, by use of lacing cords			
7.	Perform Discharge of SVM SIH Bundles by use of mated short-receptacles with a bondstrap to ESD table GND = SVM GND according Annex-6			
8.	Perform DCU SIH Integration on SVM PFM Lateral-panel Fix SIH Bundle protections at DCU harness attachment anchors / stand-offs according pre-integration pictures & record status in Annex-7 - WITHOUT ANY MATING ON PFM DCU Connectors			
9.			Left blanc	
10.	Continue with FCU SIH connector rework acc. Ref.5 and record status in manufacturing logsheet Annex-1 & -2			

No:	Activity	Proc/Drwg	Remarks/Results	sign off
11.	Perform FCU SIH Bundle Massproperty after Rework and record data in Annex-3			
12.	Perform FCU SIH FCR continuity resistance test on SVM Plug-connectors by use of a DVM according Annex-4			
13.	Perform FCU SIH Over-shd continuity resistance test between SVM Plug-connector Backshell & FCU SIH Connector Backshells by use of a DVM according Annex-5			
14.	Connect FCU SIH Bundles on Dummy-FCU and form SIH Bundles according pre-integration in a similar shape by use of lacing cords			
15.	Perform Discharge of SVM SIH Bundles by use of mated short-receptacles with a bondstrap to ESD table GND = SVM GND according Annex-6			
16.	Perform FCU SIH Integration on SVM PFM Lateral-panel Fix SIH Bundle protections at DCU harness attachment anchors / stand-offs according pre-integration pictures & record status in Annex-7 - WITHOUT ANY MATING ON PFM FCU Connectors			
17.	Perform pre-fixation of DCU & FCU SIH Bundles to allow Lateral-panel tilting			
18.	Perform SPIRE Lateral-panel Tilt-Up			
19.	Perform Fit-check of SIH Bundles to SVM I/F-CBs 312100			
20.	Perform Fit-check of SIH Bundles to SVM I/F-CBs 312200			
21.	Perform Fit-check of SIH Bundles to SVM I/F-CBs 312300			

No:	Activity	Proc/Drwg	Remarks/Results	sign off
22.	Perform re-adjustments of performed SIH protection layers in all areas of harness anchors Install SIH protection layers such, that it can be moved by 5 mm to both sides during routing adjustment after electrical WU integration and final SVM Plug-connector mating			
23.	Perform SPIRE Lateral-panel Tilt-Down			
24.	Implement as-built SIH Rework- & Routing-/ Integration-pictures in Annex-9			
25.	Check all steps in SD are performed, measurements completed & signed by operators and PA			
26.			Left blanc	
27.	PFM SIH Integration to be performed according Ref. 6			
28.	End			

7.1 FCR and Over-Shield Rework Manufacturing Log

SIItem	SICode	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	SHD Rework	Date:	Operator
SPIRE SVM CB2	312200	P006	SCC340104401B06G2435SN	01	HSDCU	122300	P027	DCMA-37S-NMB			
	312200	P006		01	HSDCU	122300	P028	DCMA-37S-NMB			
	312200	P006		01	HSDCU	122300	P031	DCMA-37P-NMB			
	312200	P006		01	HSDCU	122300	P032	DCMA-37P-NMB			
SPIRE SVM CB2	312200	P005	SCC340104401B06G2435SN	02	HSDCU	122300	P023	DCMA-37S-NMB			
	312200	P005		02	HSDCU	122300	P024	DCMA-37S-NMB			
	312200	P005		02	HSDCU	122300	P025	DCMA-37S-NMB			
	312200	P005		02	HSDCU	122300	P026	DCMA-37S-NMB			
SPIRE SVM CB1	312100	P004	SCC340104401B06G2435SN	03	HSDCU	122300	P029	DDMA-78P-NMB			
	312100	P004		03	HSDCU	122300	P030	DDMA-78P-NMB			
SPIRE SVM CB1	312100	P003	SCC340104401B06G2435SN	04	HSDCU	122300	P020	DDMA-50S-NMB			
	312100	P003		04	HSDCU	122300	P021	DDMA-50S-NMB			
	312100	P003		04	HSDCU	122300	P022	DDMA-50S-NMB			
SPIRE SVM CB1	312100	P002	SCC340104401B06G2435SN	05	HSDCU	122300	P017	DDMA-50S-NMB			
	312100	P002		05	HSDCU	122300	P018	DDMA-50S-NMB			
	312100	P002		05	HSDCU	122300	P019	DDMA-50S-NMB			

SItem	SIcode	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	SHD Rework	Date:	Operator
SPIRE SVM CB2	312200	P003	SCC340104401B06G2435SN	06	HSDCU	122300	P014	DDMA-50S-NMB			
	312200	P003		06	HSDCU	122300	P015	DDMA-50S-NMB			
	312200	P003		06	HSDCU	122300	P016	DDMA-50S-NMB			
SPIRE SVM CB2	312200	P004	SCC340104401B06G2435SN	07	HSDCU	122300	P011	DDMA-50S-NMB			
	312200	P004		07	HSDCU	122300	P012	DDMA-50S-NMB			
	312200	P004		07	HSDCU	122300	P013	DDMA-50S-NMB			
SPIRE SVM CB2	312200	P001	SCC340104401B06G2435SN	08	HSDCU	122300	P008	DDMA-50S-NMB			
	312200	P001		08	HSDCU	122300	P009	DDMA-50S-NMB			
	312200	P001		08	HSDCU	122300	P010	DDMA-50S-NMB			
SPIRE SVM CB2	312200	P002	SCC340104401B06G2435SN	09	HSDCU	122300	P005	DDMA-50S-NMB			
	312200	P002		09	HSDCU	122300	P006	DDMA-50S-NMB			
	312200	P002		09	HSDCU	122300	P007	DDMA-50S-NMB			
SPIRE SVM CB3	312300	P006	SCC340104401B06G2435SN	10	HSFCU	122200	P011	DBMA-25P-NMB			
	312300	P006		10	HSFCU	122200	P023	DDMA-50P-NMB			
	312300	P006		10	HSFCU	122200	P025	DAMA-15P-NMB			



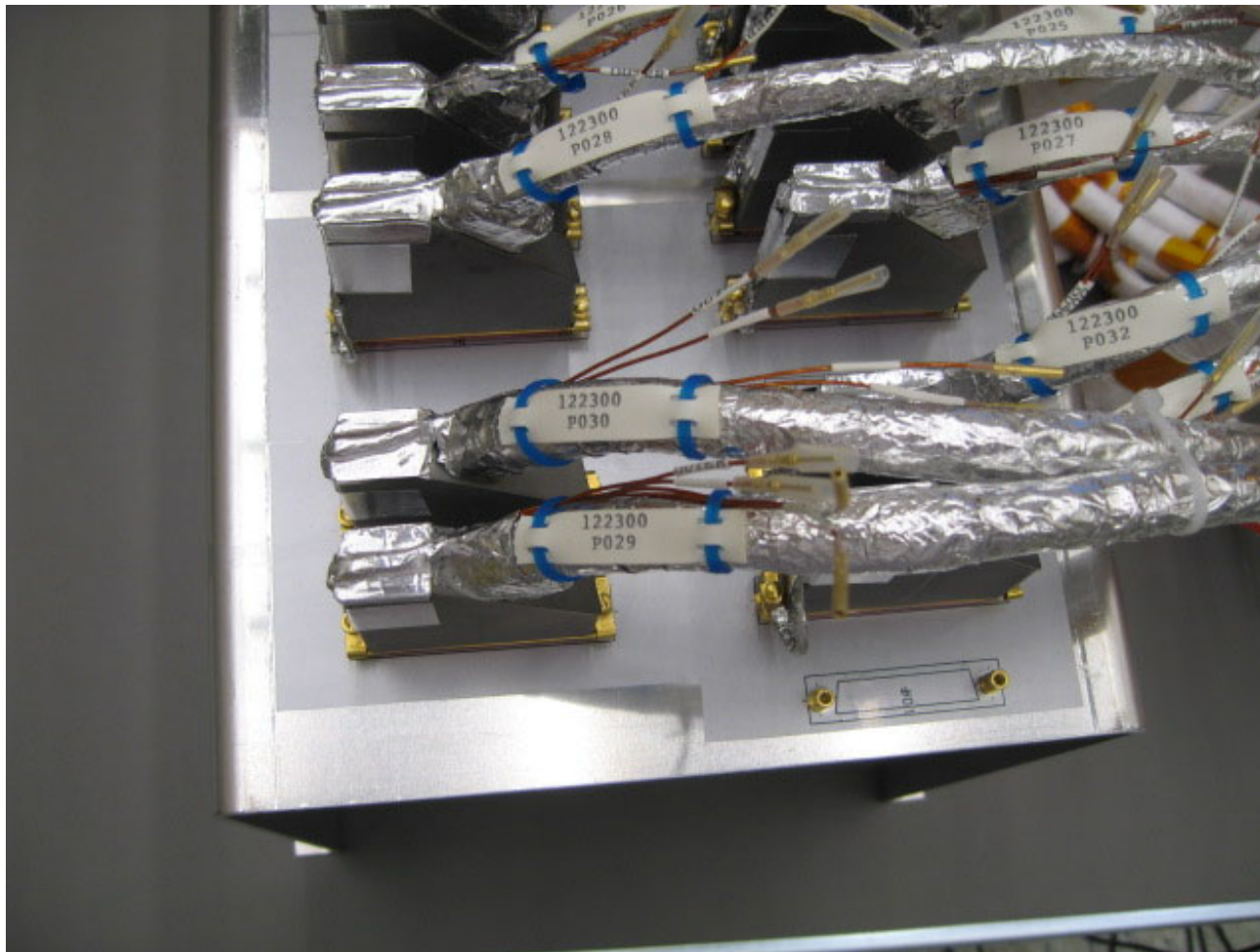
Procedure

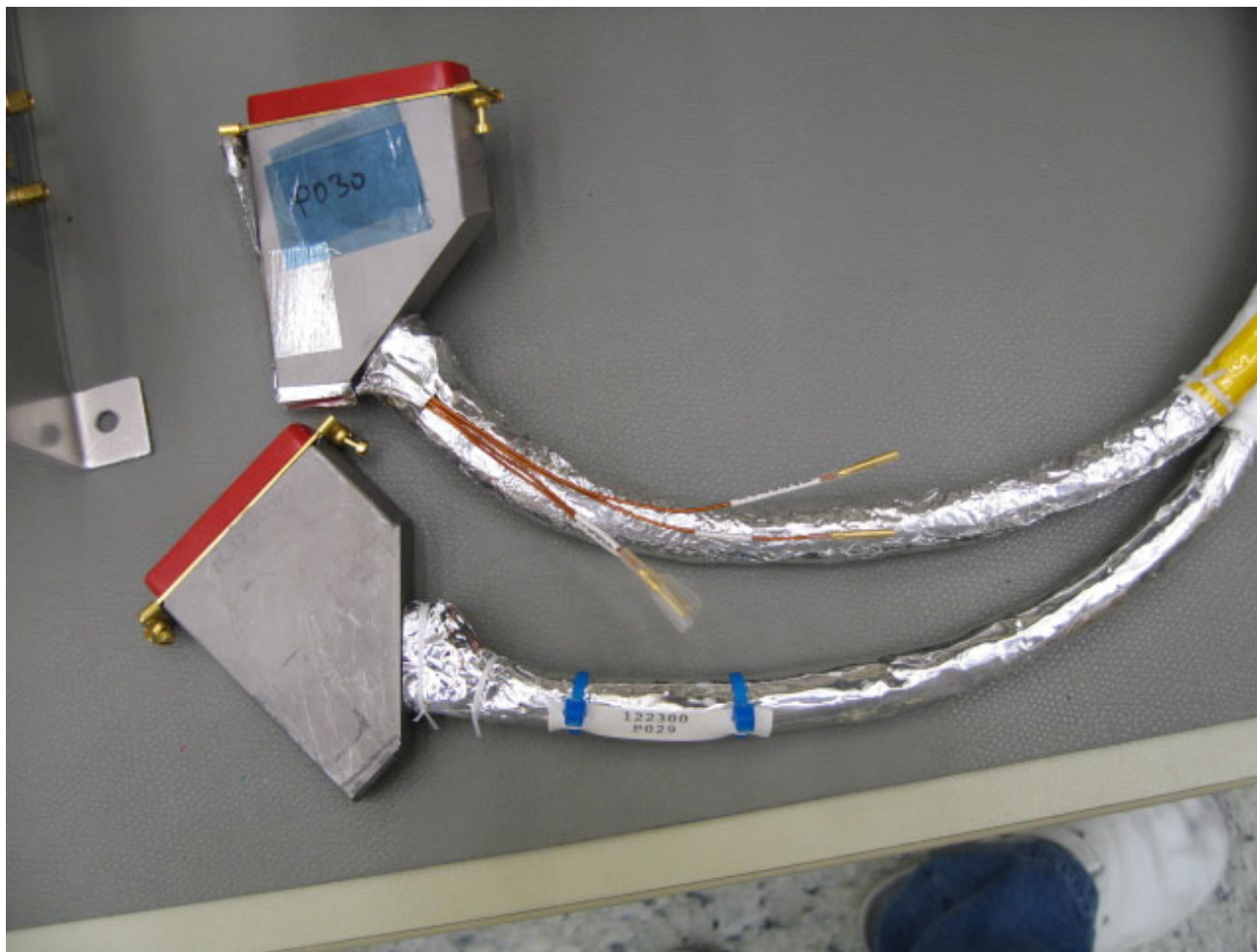
Herschel

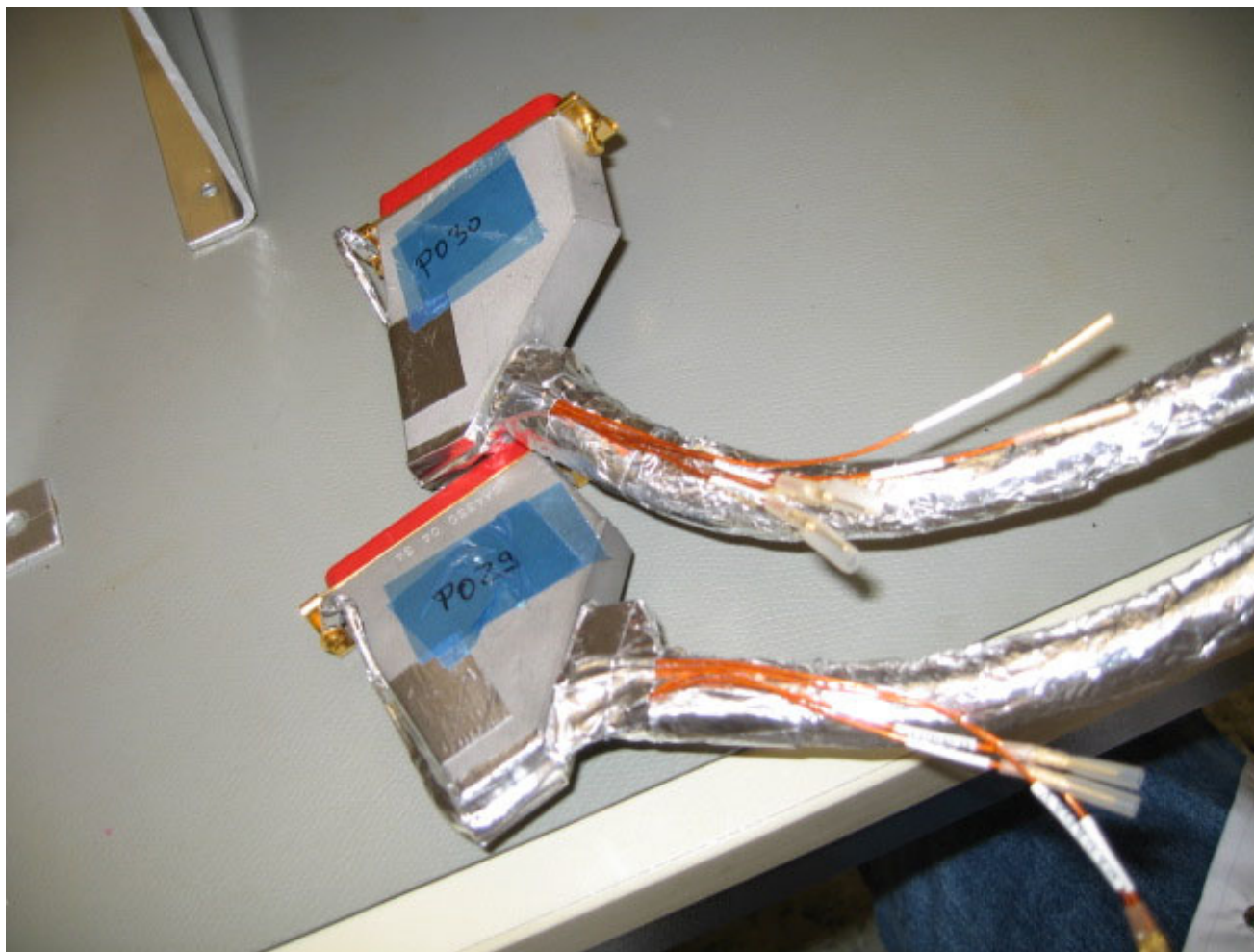
SItem	SIcode	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	SHD Rework	Date:	Operator
SPIRE SVM CB3	312300	P004	SCC340104401B06G2435SN	11	HSFCU	122200	P013	DEMA-09P-NMB			
	312300	P004		11	HSFCU	122200	P017	DCMA-37P-NMB			
	312300	P004		11	HSFCU	122200	P019	DCMA-37P-NMB			
	312300	P004		11	HSFCU	122200	P021	DAMA-15P-NMB			
	312300	P004		11	HSFCU	122200	P029	DCMA-37S-NMB			
SPIRE SVM CB3	312300	P005	SCC340104401B06G2435SN	12	HSFCU	122200	P012	DBMA-25P-NMB			
	312300	P005		12	HSFCU	122200	P024	DDMA-50P-NMB			
	312300	P005		12	HSFCU	122200	P026	DAMA-15P-NMB			
SPIRE SVM CB3	312300	P003	SCC340104401B06G2435SN	13	HSFCU	122200	P014	DEMA-09P-NMB			
	312300	P003		13	HSFCU	122200	P018	DCMA-37P-NMB			
	312300	P003		13	HSFCU	122200	P020	DCMA-37P-NMB			
	312300	P003		13	HSFCU	122200	P022	DAMA-15P-NMB			
	312300	P003		13	HSFCU	122200	P030	DCMA-37S-NMB			
	312100	J01A		02_04	HSSVMCB1	312100	J01B	DCMA-09P-NMB			
	312100	J01B		04_02	HSSVMCB1	312100	J01A	DCMA-09P-NMB			
Date:			Name:				Date:			PA:	

Table 7.1-1: FCR and Over-Shield Rework Manufacturing Log

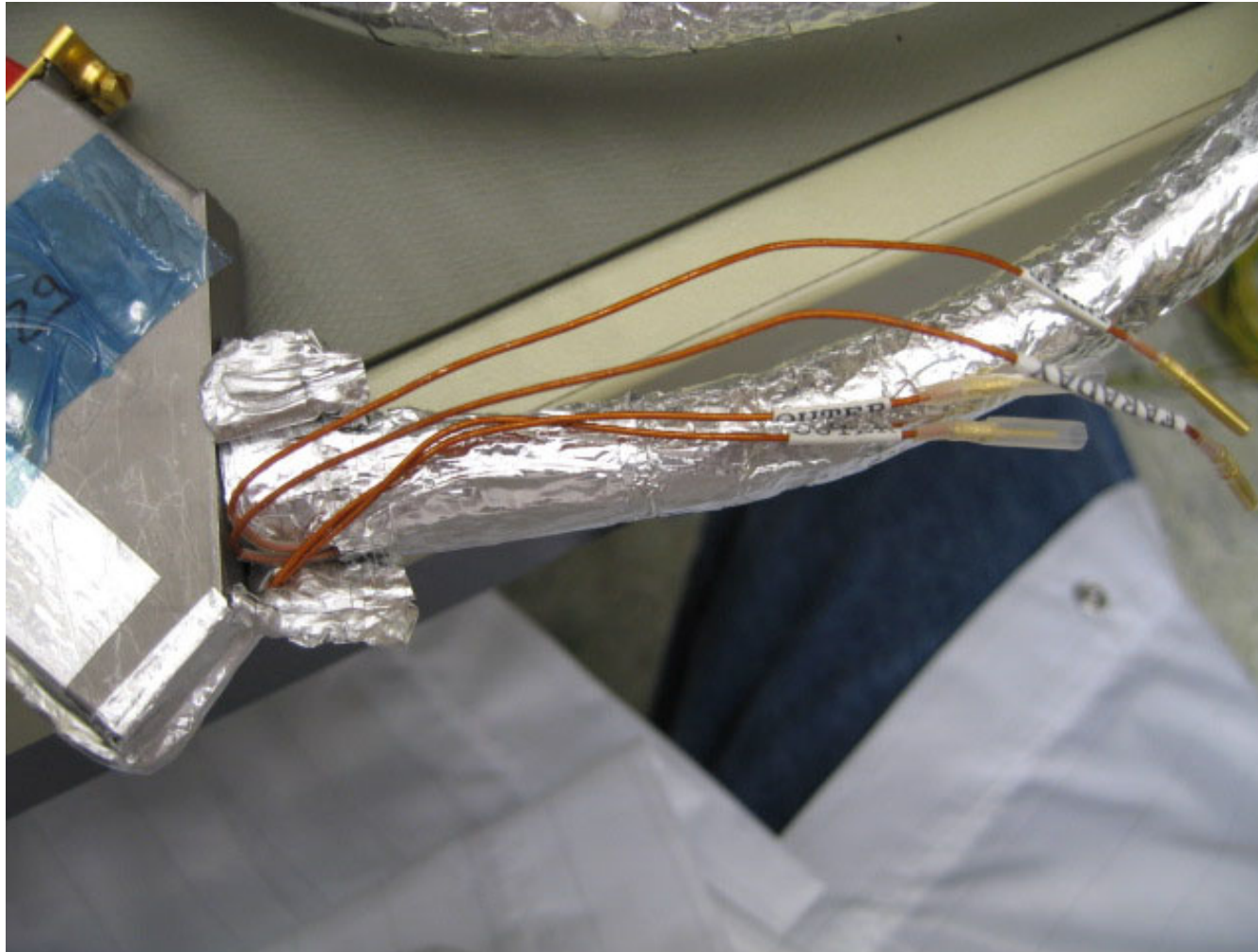
7.2 PFM SVM SPIRE SIH Bundle Rework Method (chronological sequence pictures)

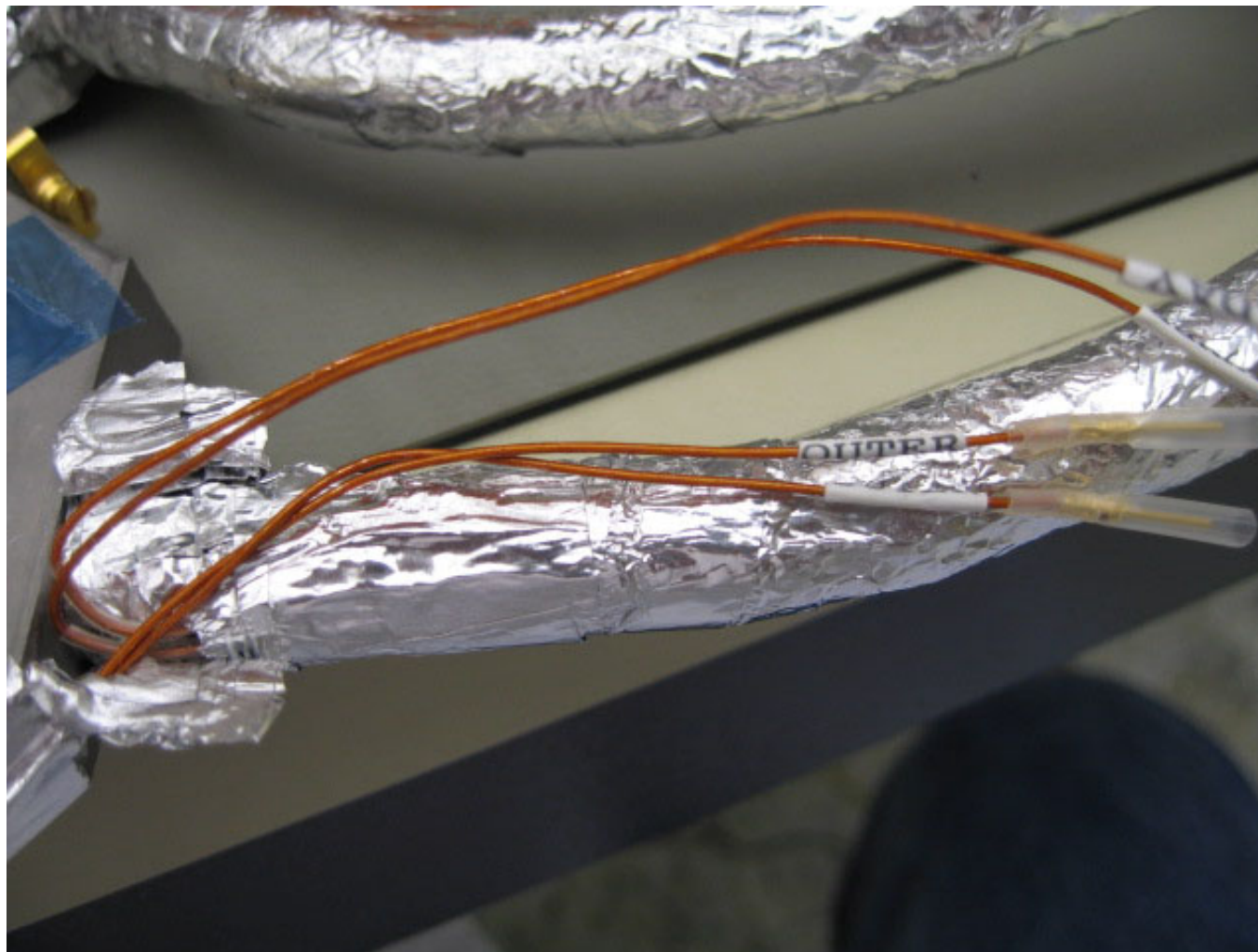




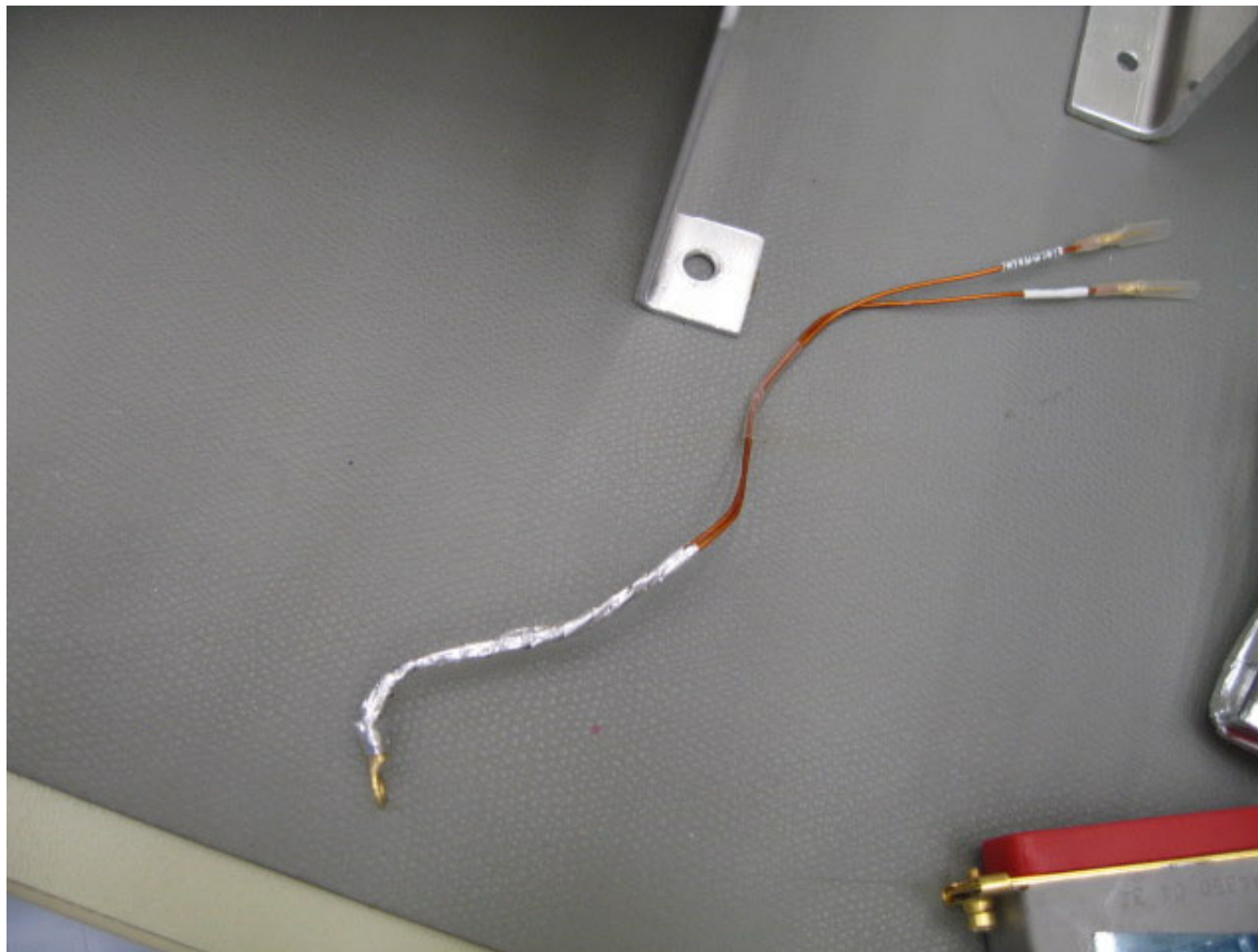


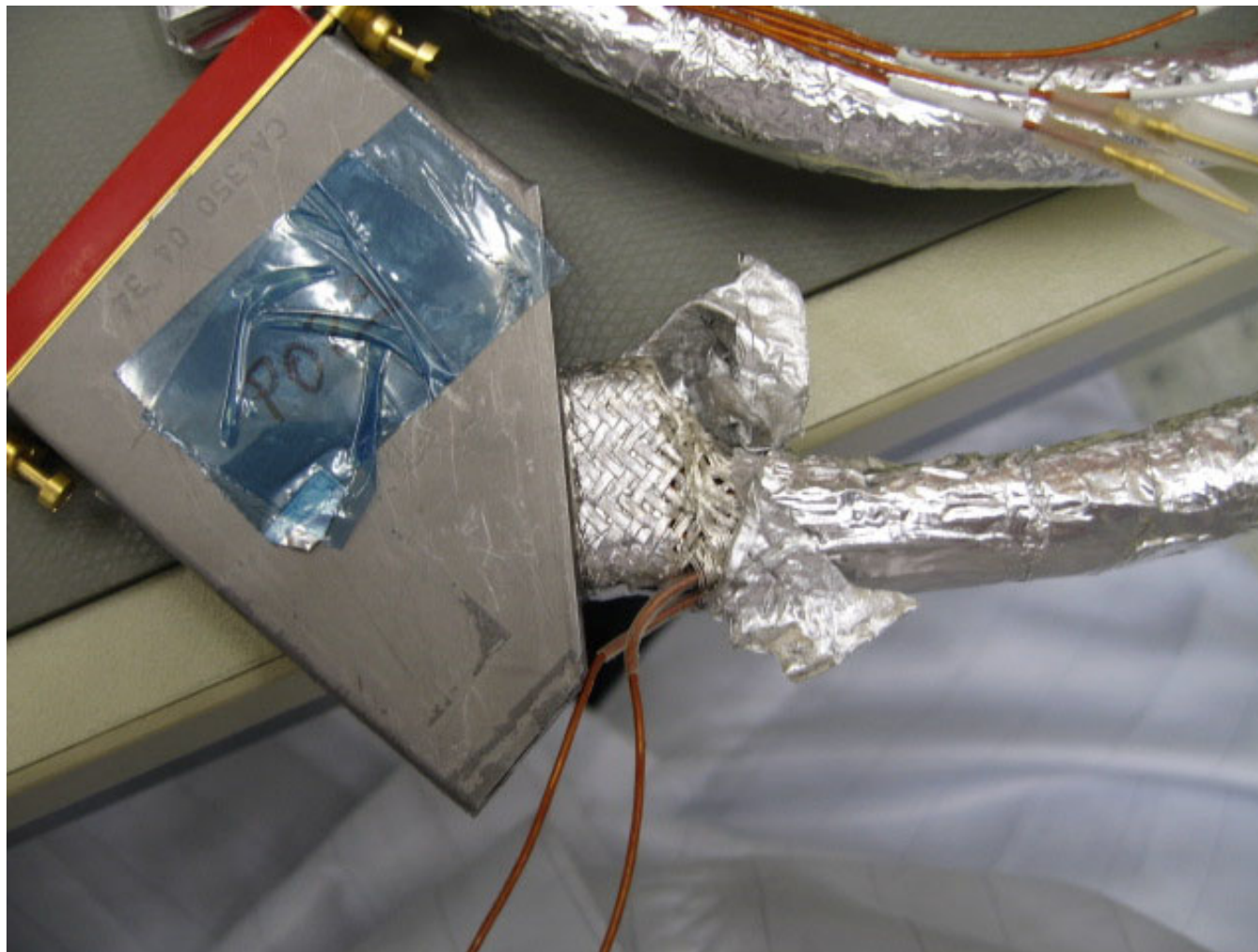


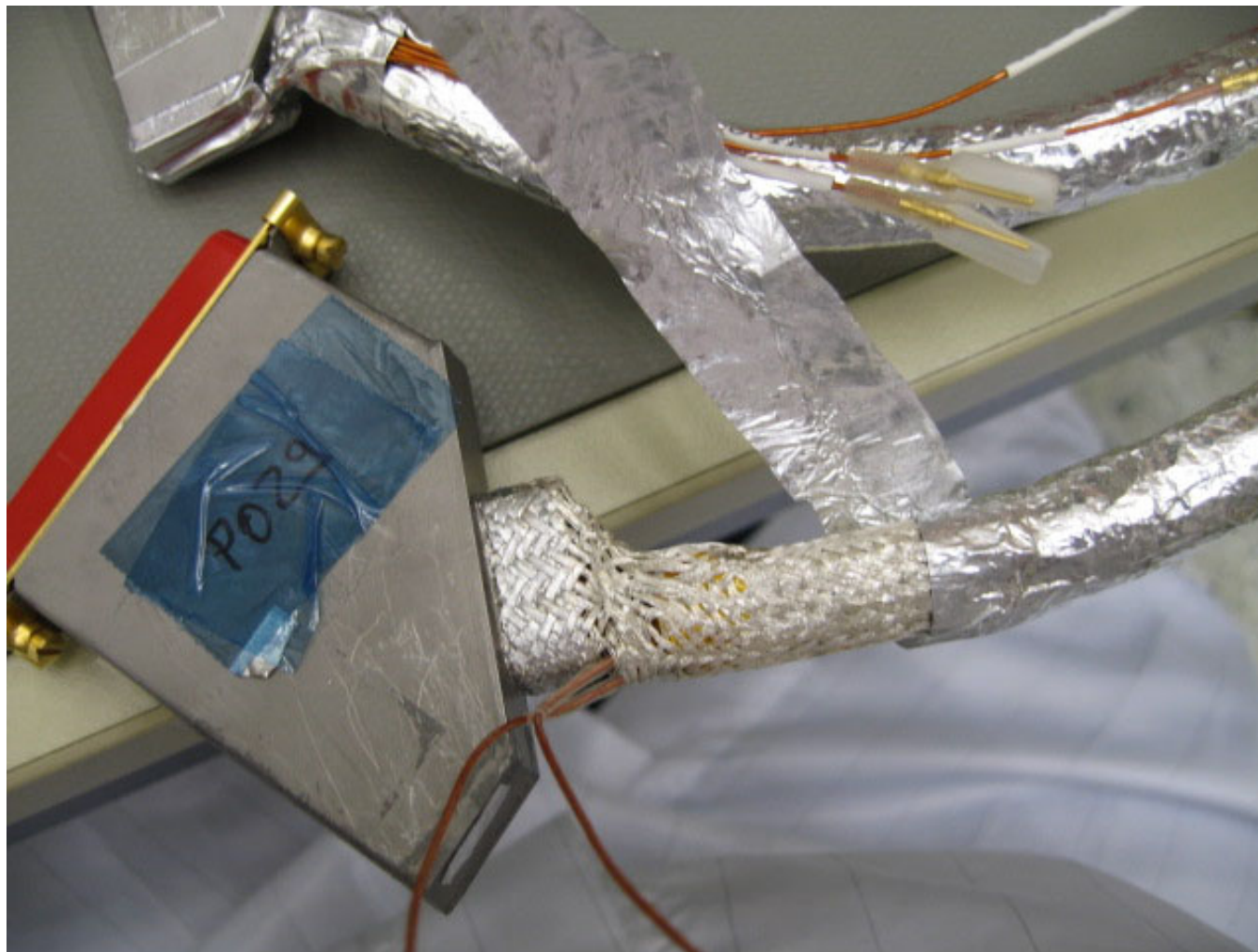


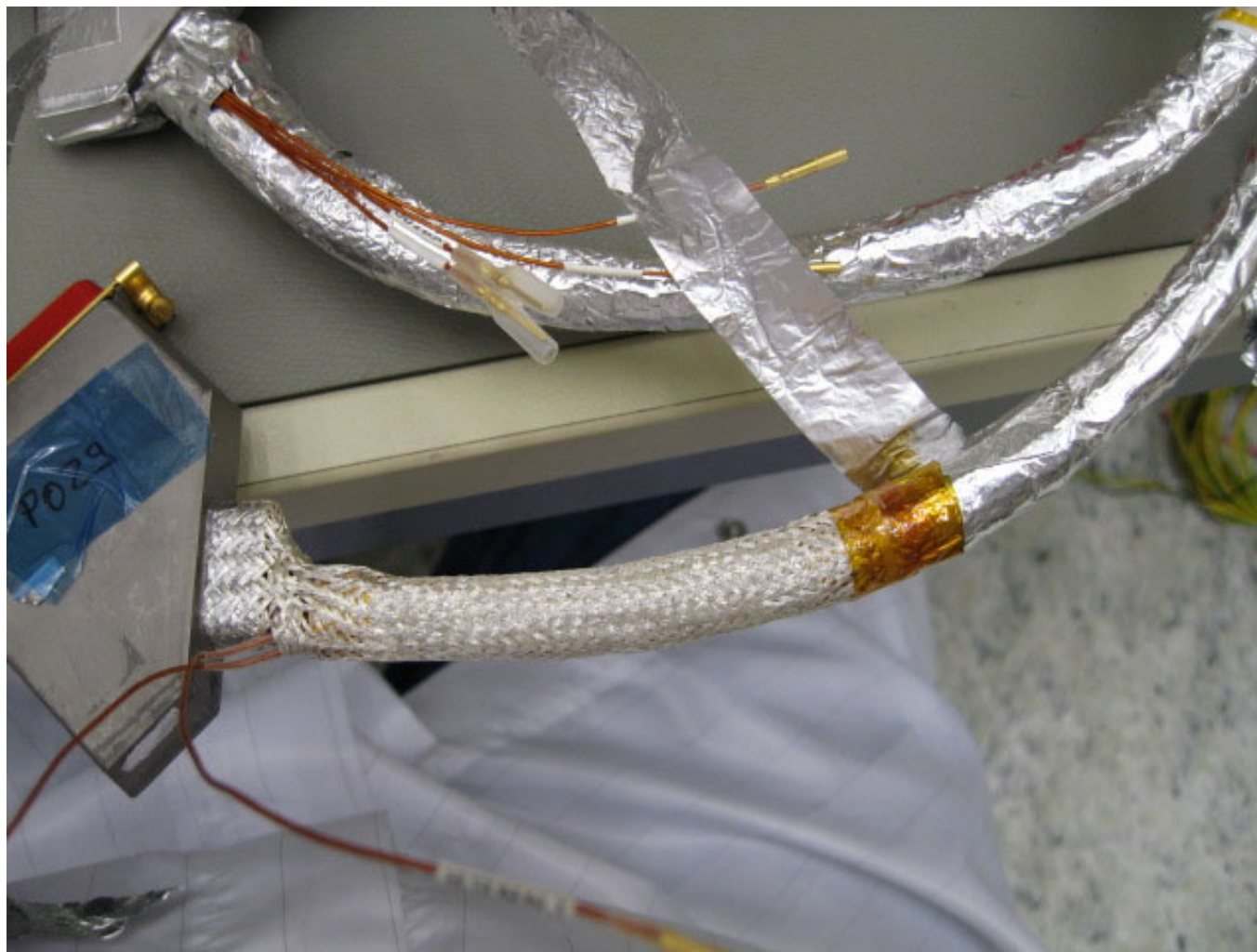


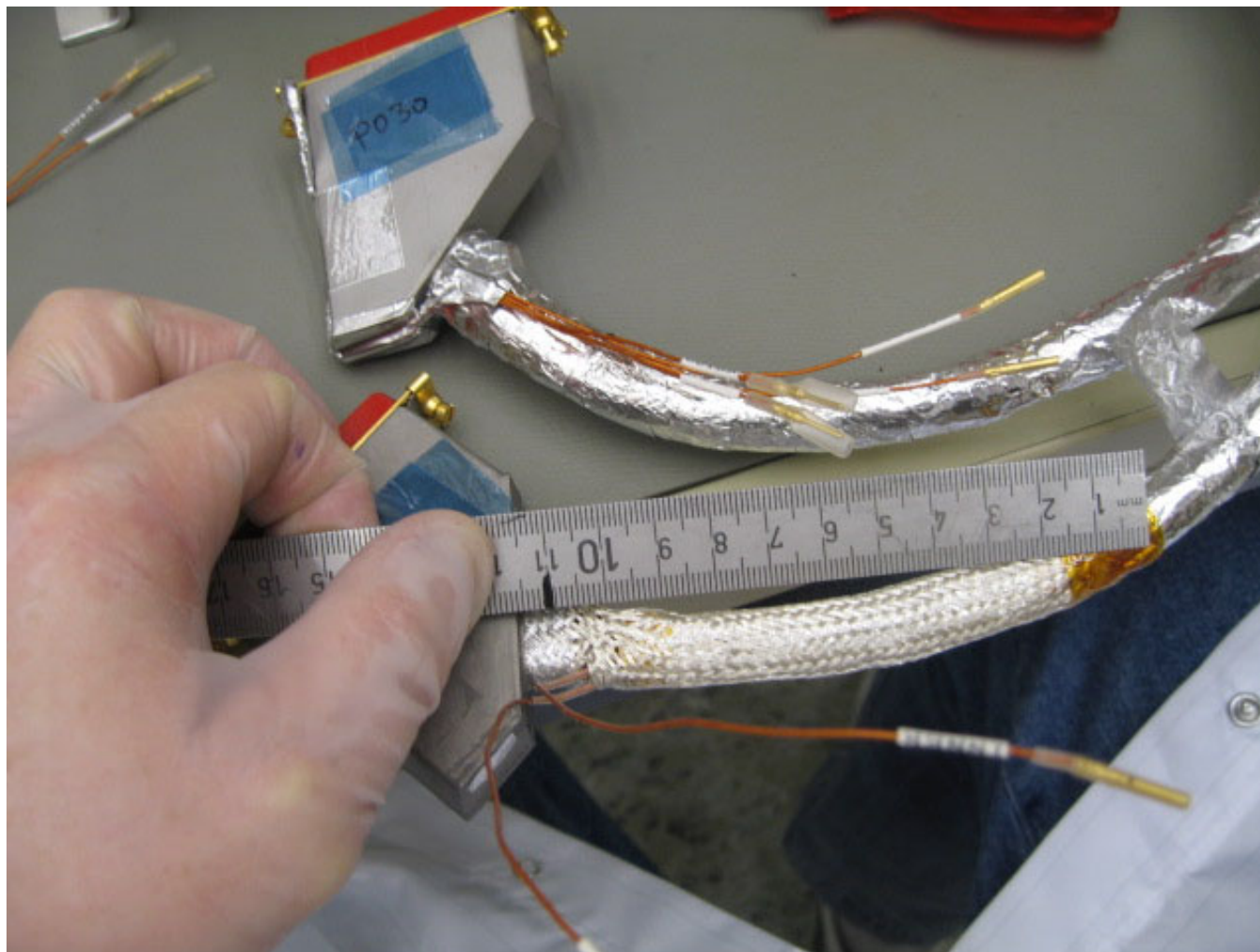


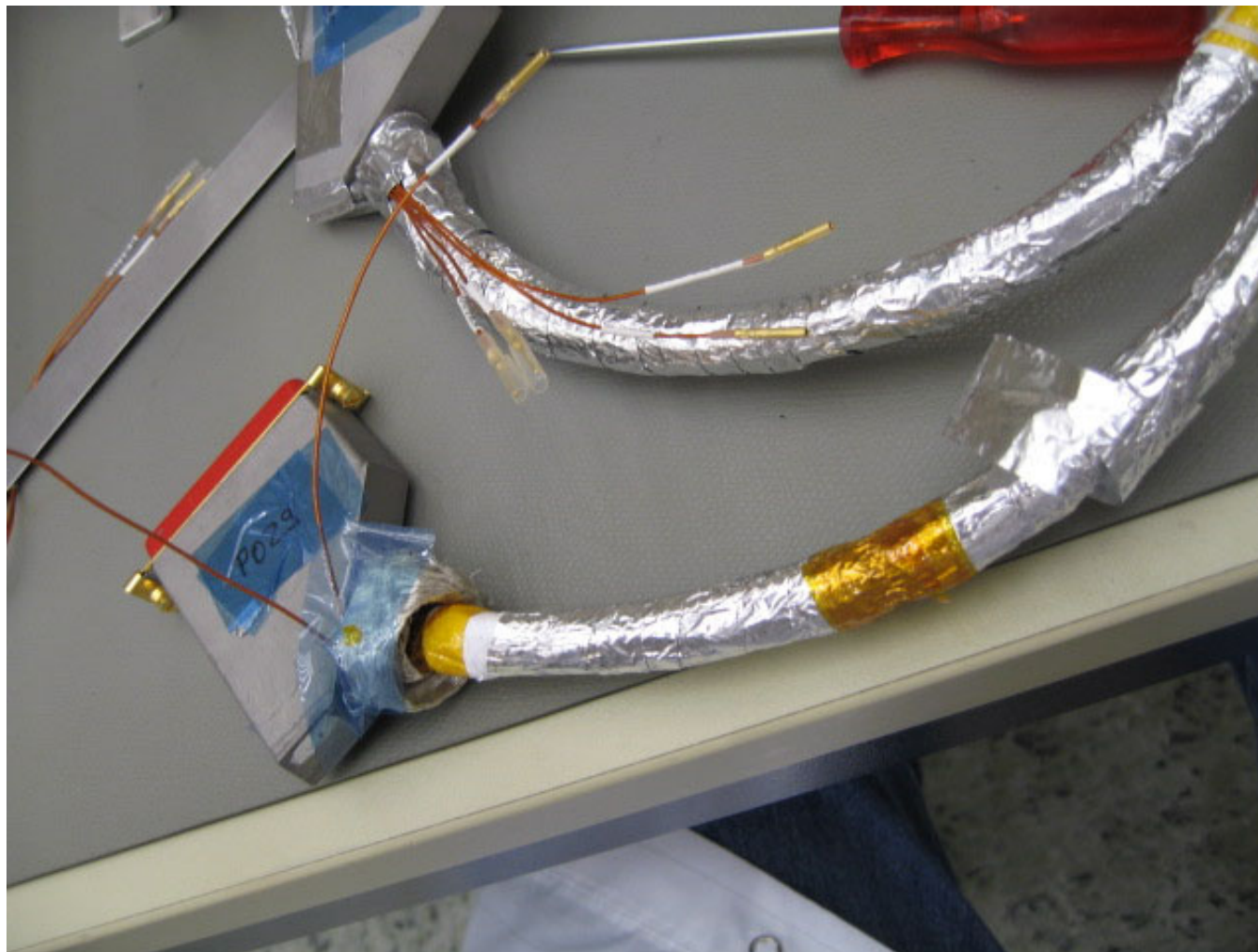


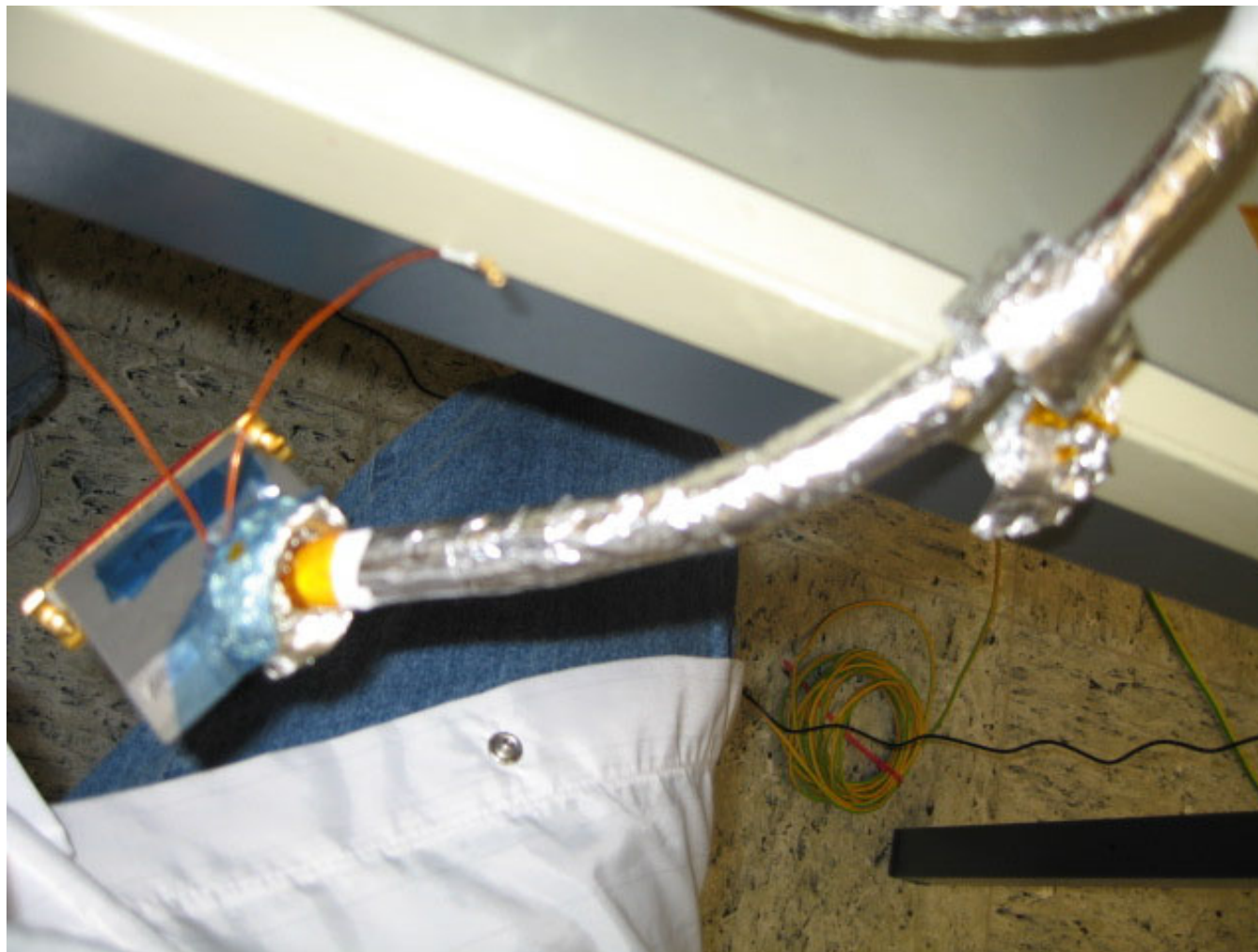


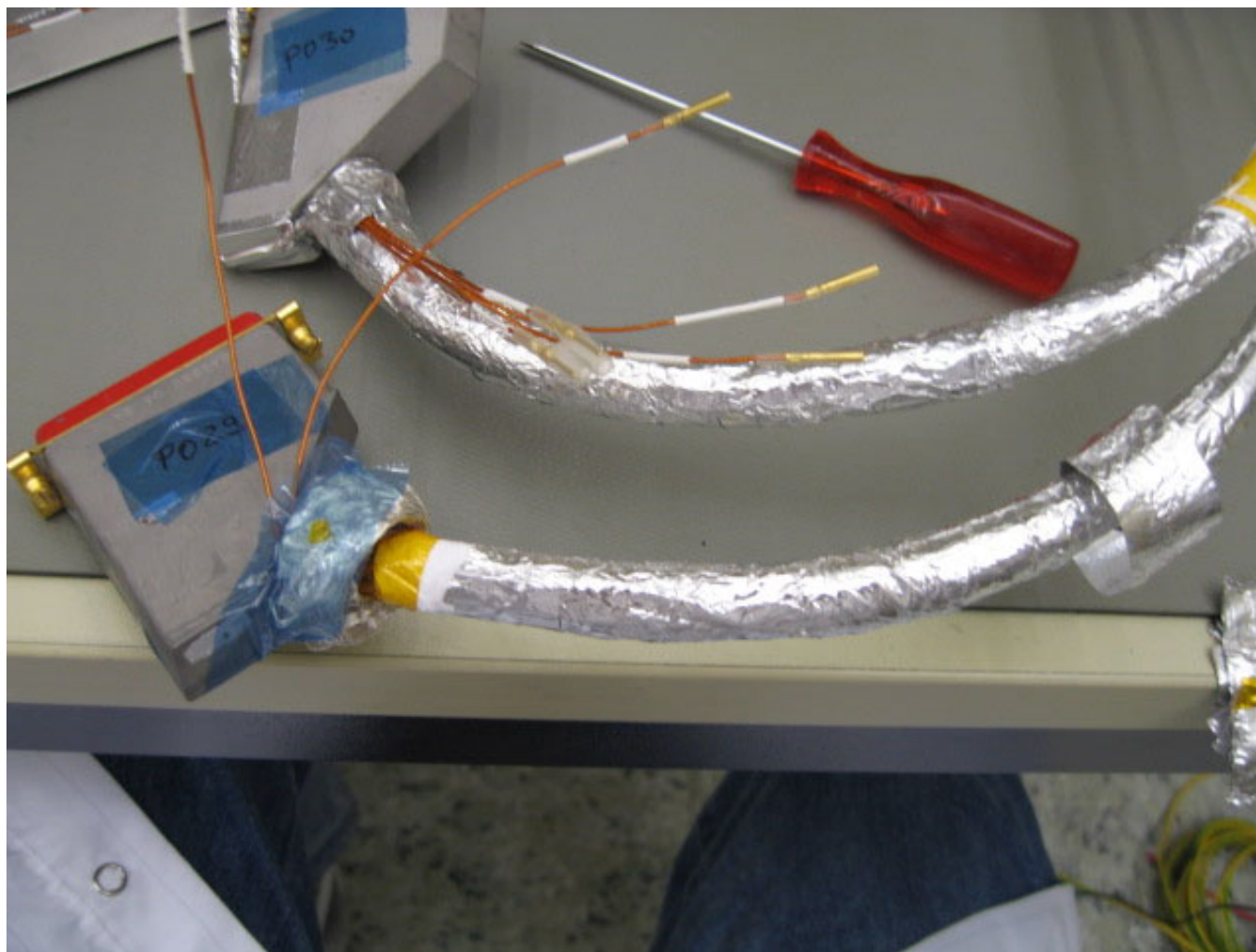


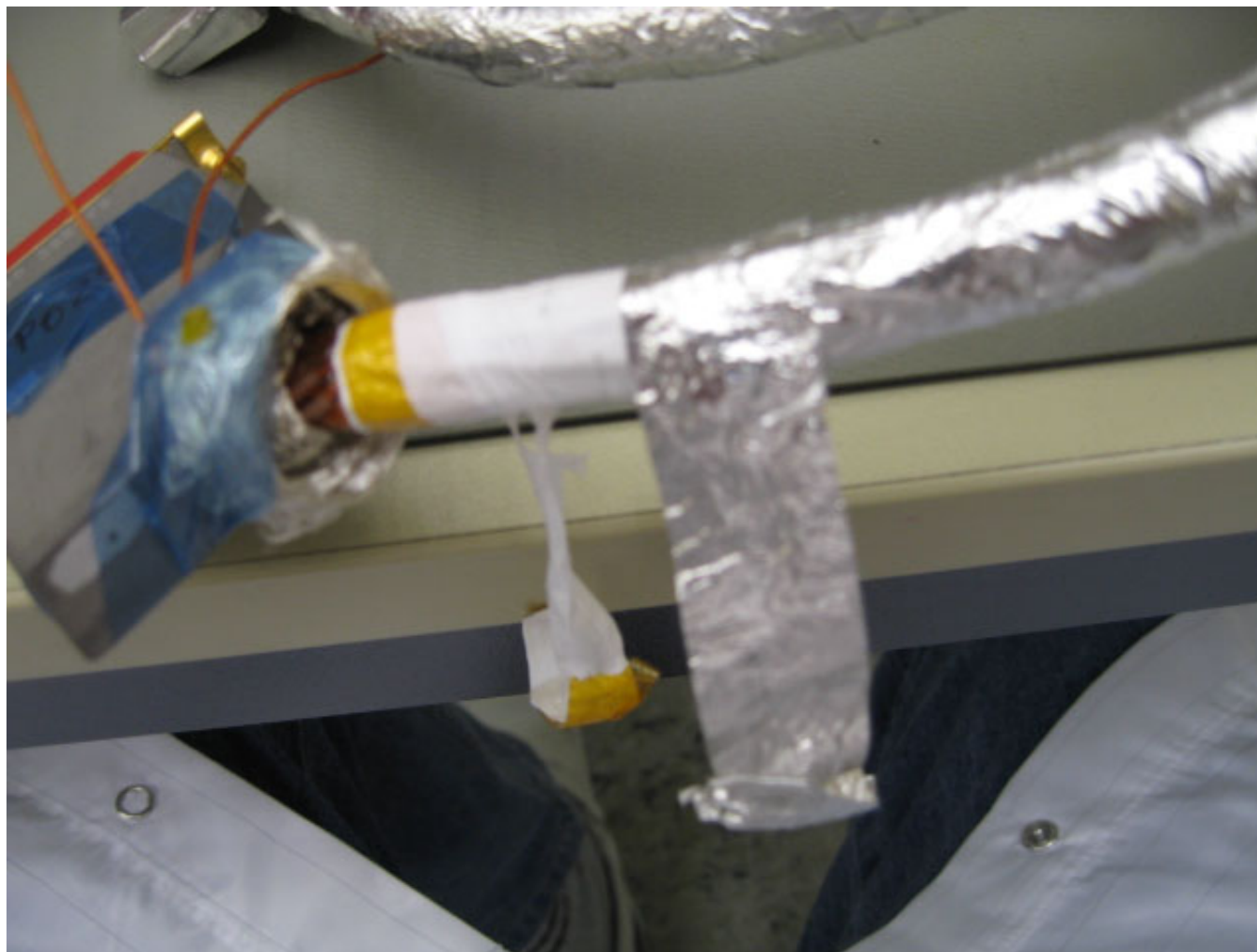


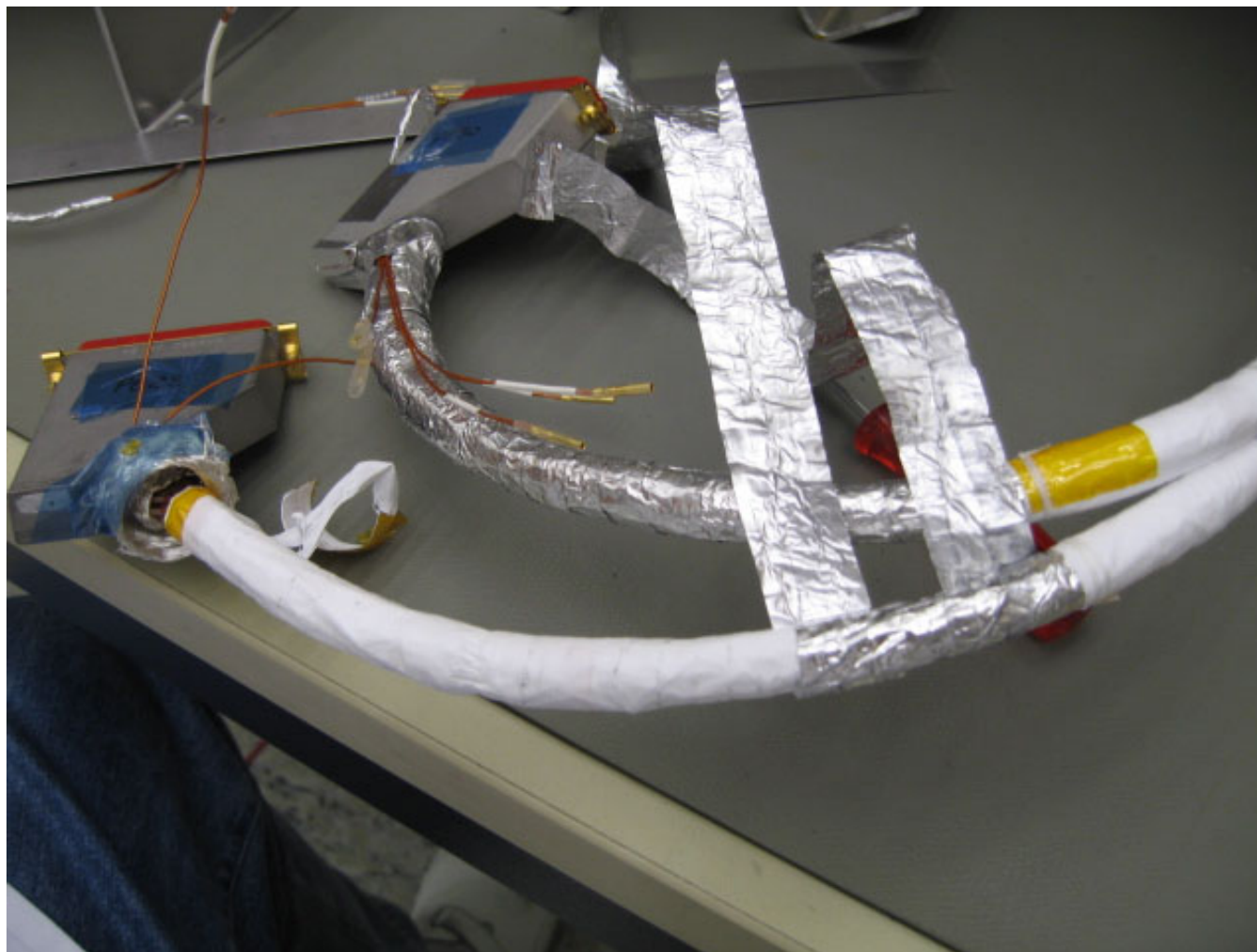


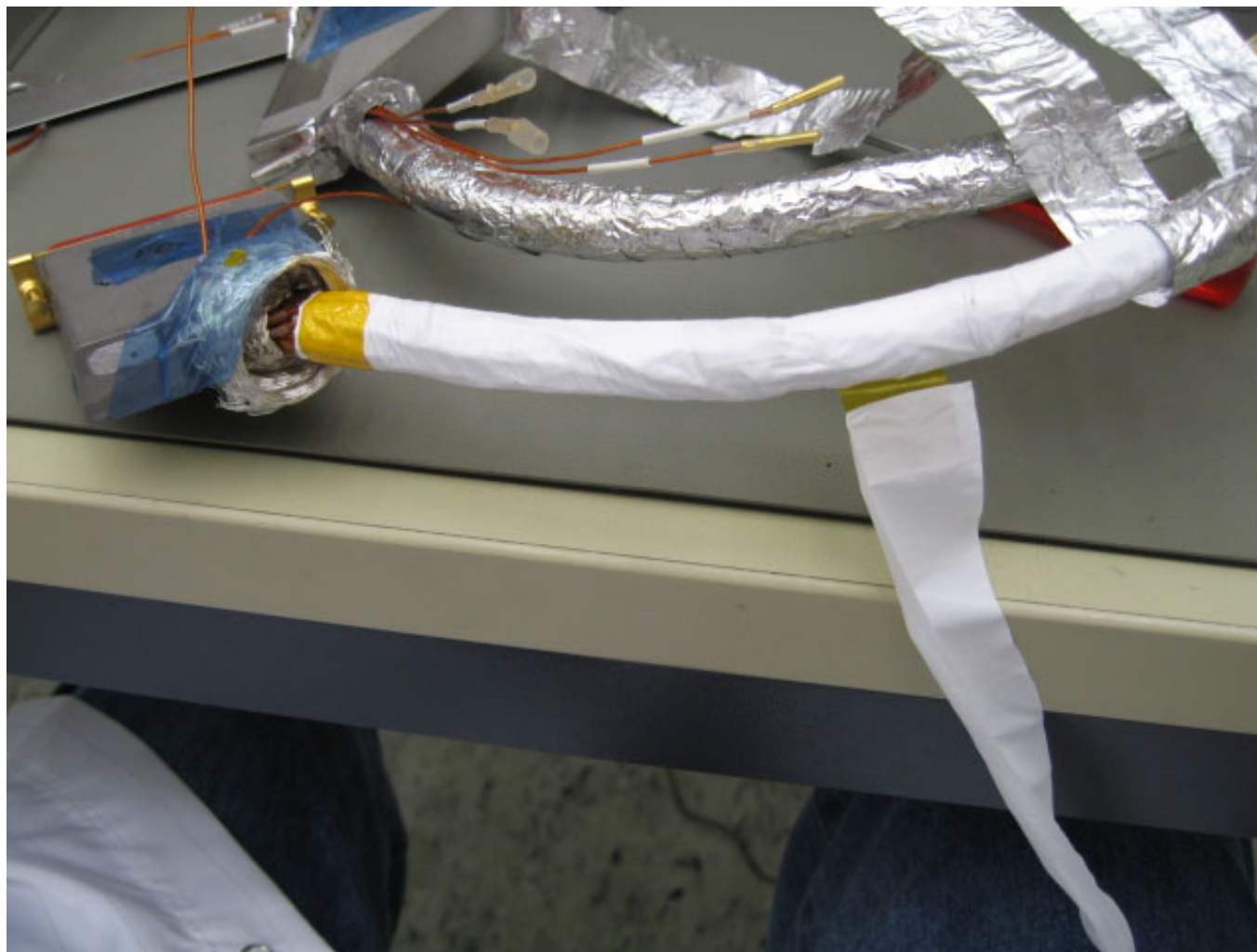


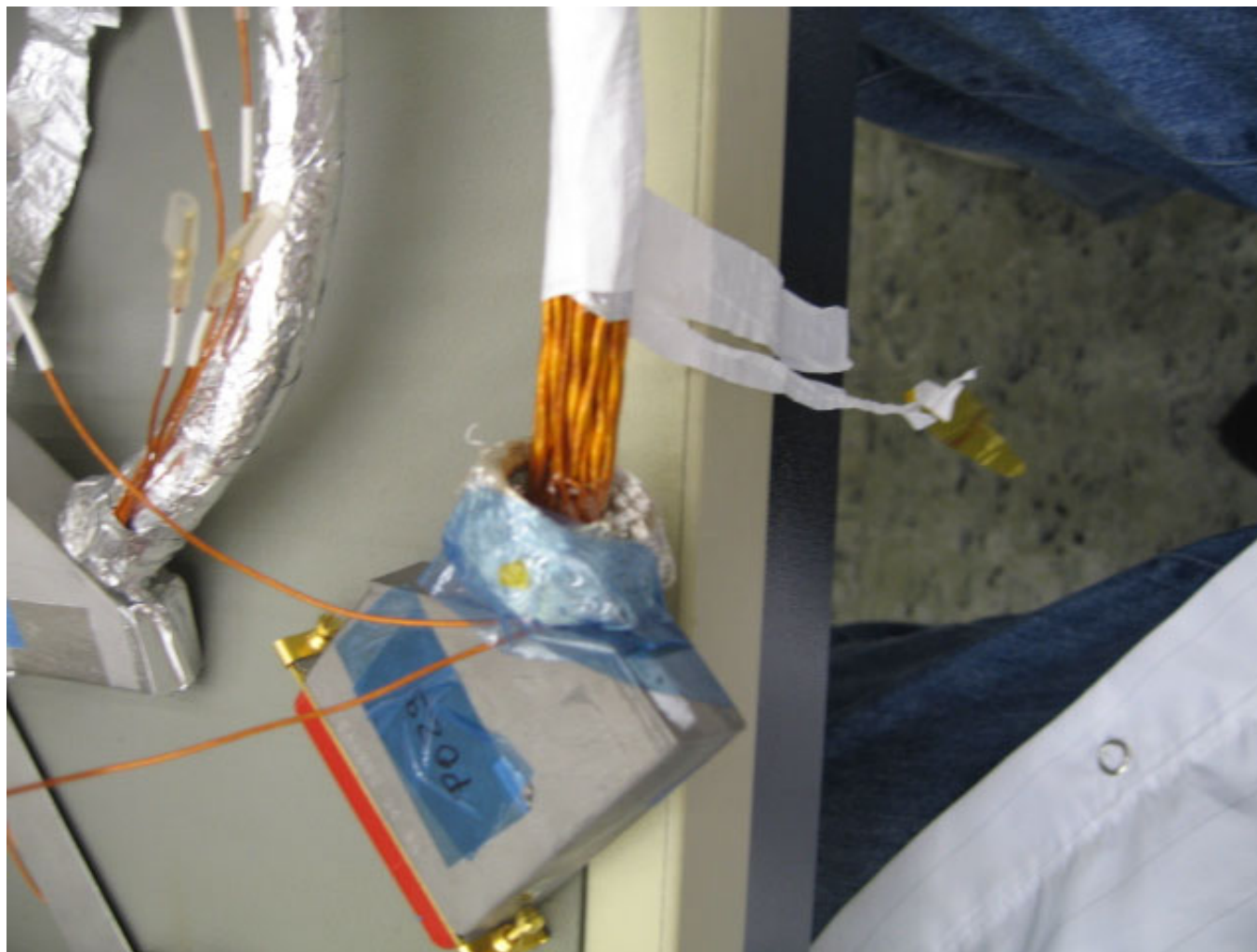


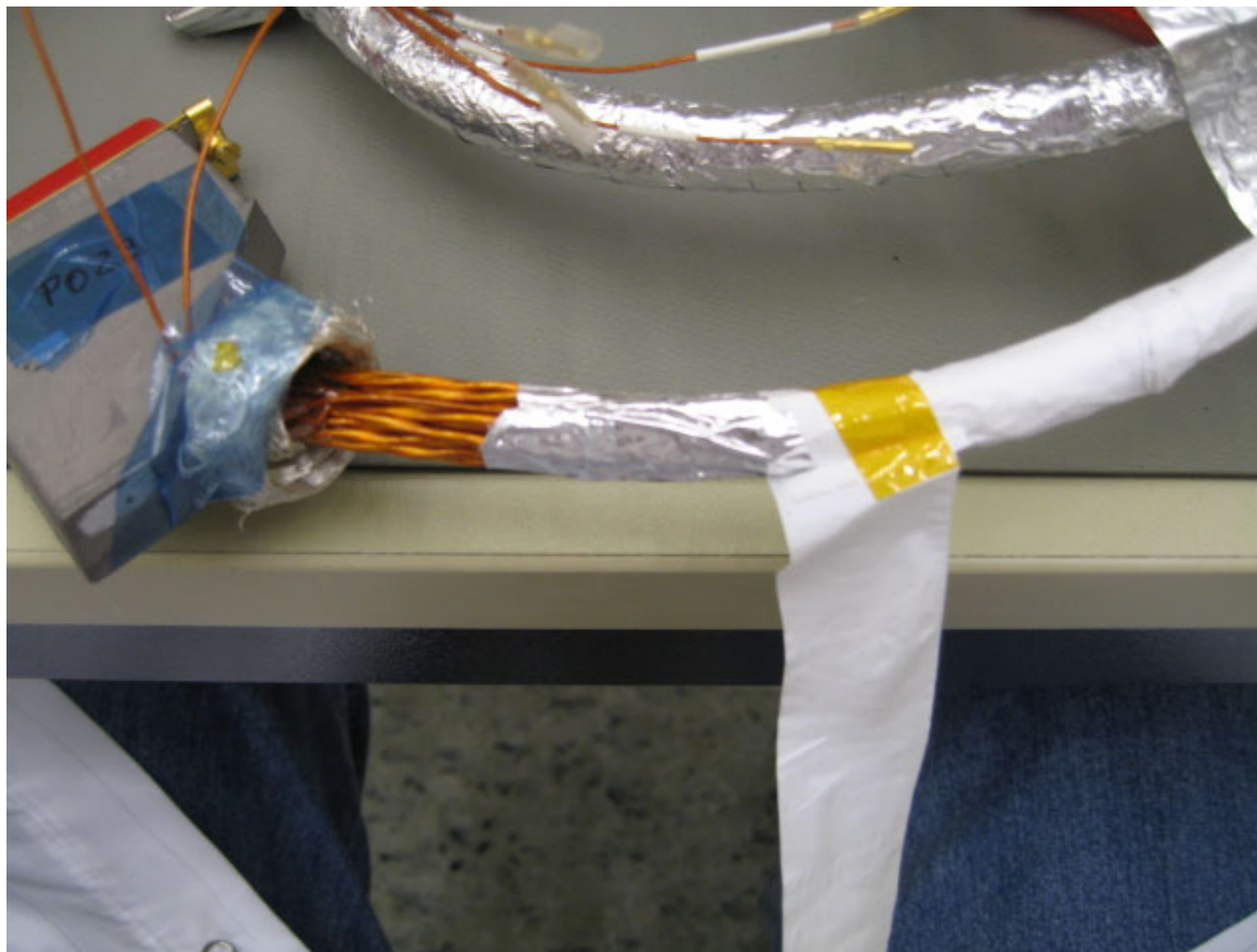


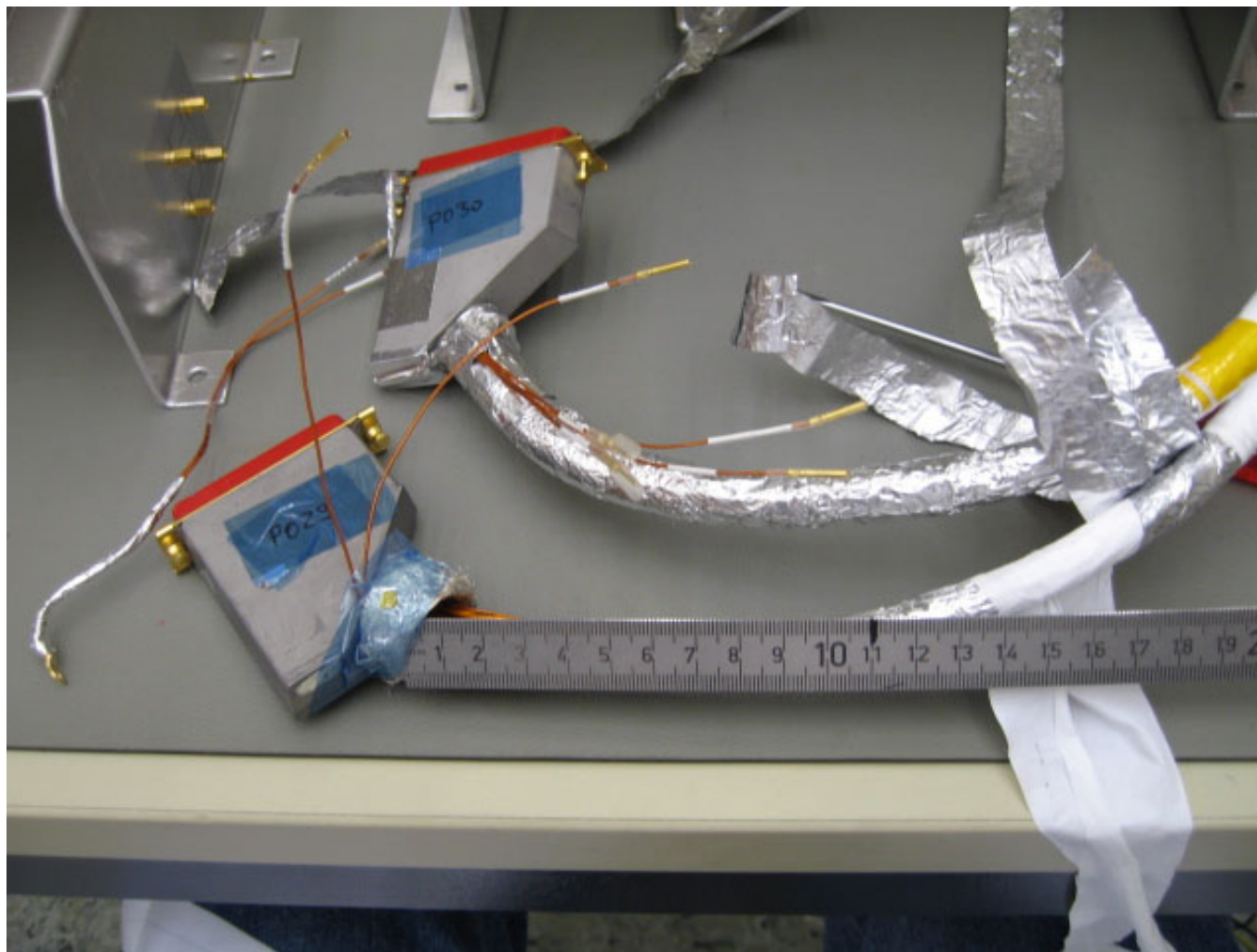


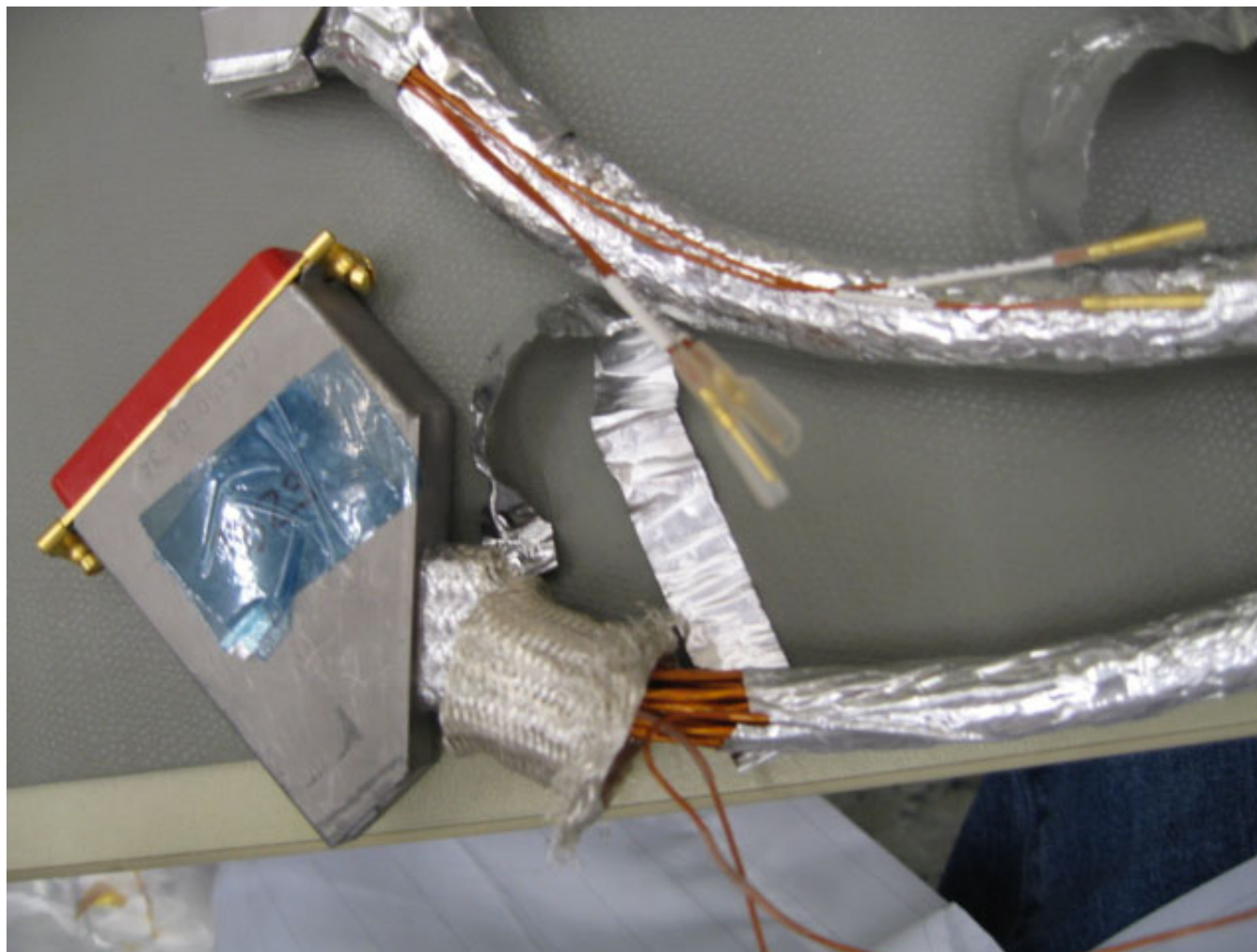


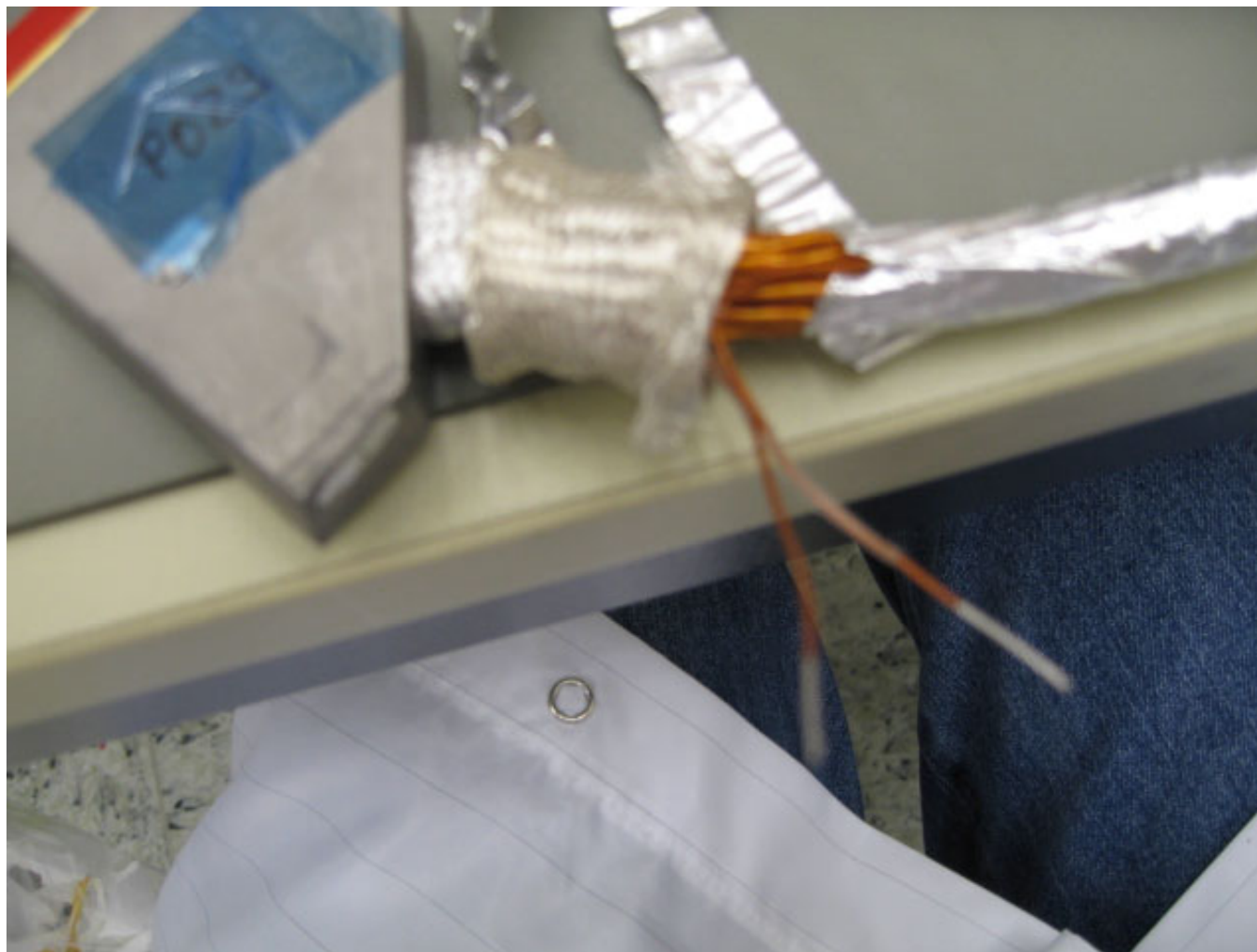












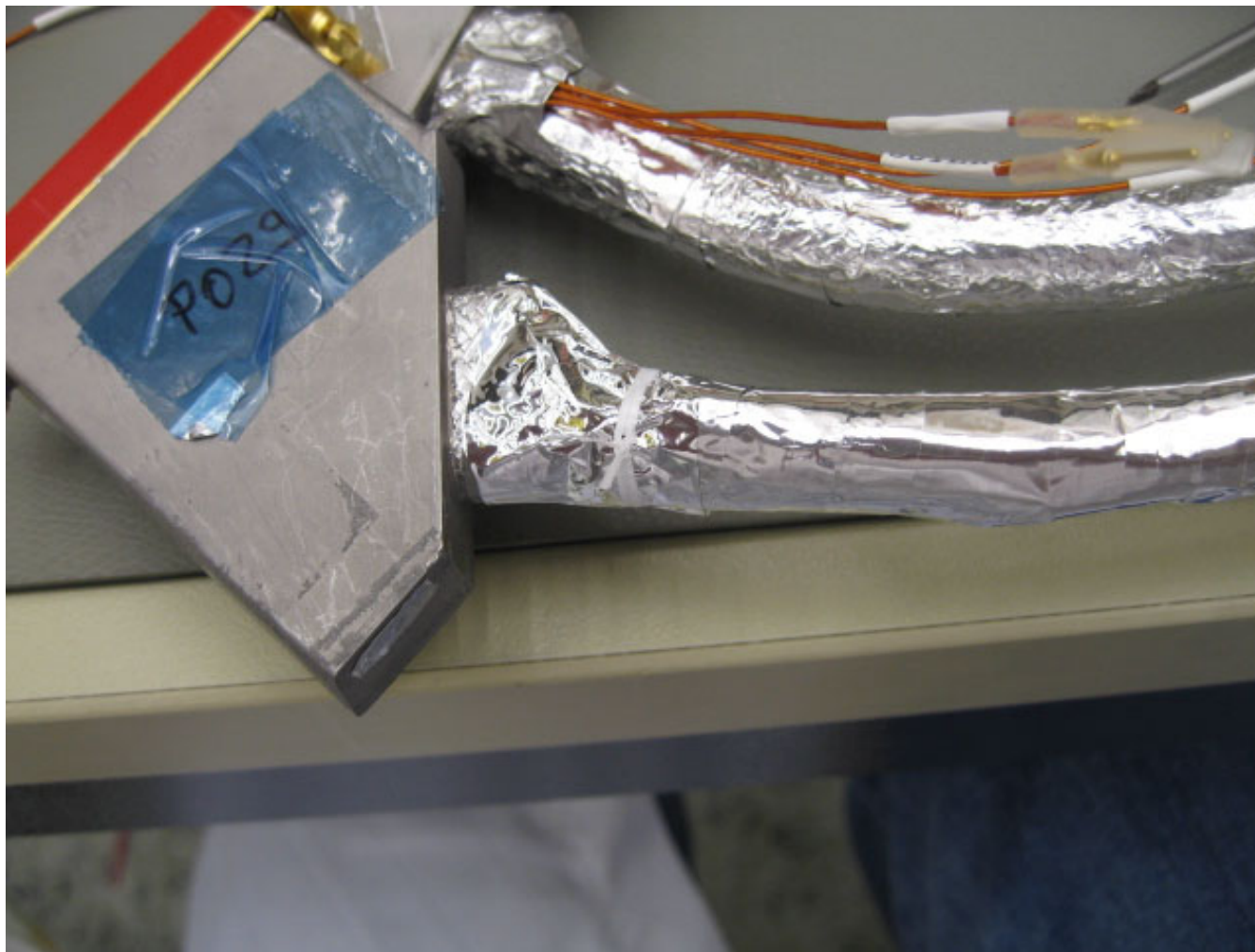














8 Summary Sheets

8.1 PFM SVM SPIRE SIH Bundle Massproperty after Rework

Sitem	SIcode	Schon	SconType	SIH-SS-	TSItem	TICode	Tcon	TconType	Mass_g	Date:	Operator
SPIRE SVM CB2	312200	P006	SCC340104401B06G2435SN	01	HSDCU	122300	P027	DCMA-37S-NMB			
	312200	P006		01	HSDCU	122300	P028	DCMA-37S-NMB			
	312200	P006		01	HSDCU	122300	P031	DCMA-37P-NMB			
	312200	P006		01	HSDCU	122300	P032	DCMA-37P-NMB			
SPIRE SVM CB2	312200	P005	SCC340104401B06G2435SN	02	HSDCU	122300	P023	DCMA-37S-NMB			
	312200	P005		02	HSDCU	122300	P024	DCMA-37S-NMB			
	312200	P005		02	HSDCU	122300	P025	DCMA-37S-NMB			
	312200	P005		02	HSDCU	122300	P026	DCMA-37S-NMB			
SPIRE SVM CB1	312100	P004	SCC340104401B06G2435SN	03	HSDCU	122300	P029	DDMA-78P-NMB			
	312100	P004		03	HSDCU	122300	P030	DDMA-78P-NMB			
SPIRE SVM CB1	312100	P003	SCC340104401B06G2435SN	04	HSDCU	122300	P020	DDMA-50S-NMB			
	312100	P003		04	HSDCU	122300	P021	DDMA-50S-NMB			
	312100	P003		04	HSDCU	122300	P022	DDMA-50S-NMB			
SPIRE SVM CB1	312100	P002	SCC340104401B06G2435SN	05	HSDCU	122300	P017	DDMA-50S-NMB			
	312100	P002		05	HSDCU	122300	P018	DDMA-50S-NMB			
	312100	P002		05	HSDCU	122300	P019	DDMA-50S-NMB			
SPIRE SVM CB2	312200	P003	SCC340104401B06G2435SN	06	HSDCU	122300	P014	DDMA-50S-NMB			
	312200	P003		06	HSDCU	122300	P015	DDMA-50S-NMB			
	312200	P003		06	HSDCU	122300	P016	DDMA-50S-NMB			

Sitem	SIcode	Schon	SconType	SIH-SS-	TSItem	TICode	Tcon	TconType	Mass_g	Date:	Operator
SPIRE SVM CB2	312200	P004	SCC340104401B06G2435SN	07	HSDCU	122300	P011	DDMA-50S-NMB			
	312200	P004		07	HSDCU	122300	P012	DDMA-50S-NMB			
	312200	P004		07	HSDCU	122300	P013	DDMA-50S-NMB			
SPIRE SVM CB2	312200	P001	SCC340104401B06G2435SN	08	HSDCU	122300	P008	DDMA-50S-NMB			
	312200	P001		08	HSDCU	122300	P009	DDMA-50S-NMB			
	312200	P001		08	HSDCU	122300	P010	DDMA-50S-NMB			
SPIRE SVM CB2	312200	P002	SCC340104401B06G2435SN	09	HSDCU	122300	P005	DDMA-50S-NMB			
	312200	P002		09	HSDCU	122300	P006	DDMA-50S-NMB			
	312200	P002		09	HSDCU	122300	P007	DDMA-50S-NMB			
SPIRE SVM CB3	312300	P006	SCC340104401B06G2435SN	10	HSFCU	122200	P011	DBMA-25P-NMB			
	312300	P006		10	HSFCU	122200	P023	DDMA-50P-NMB			
	312300	P006		10	HSFCU	122200	P025	DAMA-15P-NMB			
SPIRE SVM CB3	312300	P004	SCC340104401B06G2435SN	11	HSFCU	122200	P013	DEMA-09P-NMB			
	312300	P004		11	HSFCU	122200	P017	DCMA-37P-NMB			
	312300	P004		11	HSFCU	122200	P019	DCMA-37P-NMB			
	312300	P004		11	HSFCU	122200	P021	DAMA-15P-NMB			
	312300	P004		11	HSFCU	122200	P029	DCMA-37S-NMB			
SPIRE SVM CB3	312300	P005	SCC340104401B06G2435SN	12	HSFCU	122200	P012	DBMA-25P-NMB			
	312300	P005		12	HSFCU	122200	P024	DDMA-50P-NMB			
	312300	P005		12	HSFCU	122200	P026	DAMA-15P-NMB			

SItem	SIcode	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	Mass_g	Date:	Operator
SPIRE SVM CB3	312300	P003	SCC340104401B06G2435SN	13	HSFCU	122200	P014	DEMA-09P-NMB			
	312300	P003		13	HSFCU	122200	P018	DCMA-37P-NMB			
	312300	P003		13	HSFCU	122200	P020	DCMA-37P-NMB			
	312300	P003		13	HSFCU	122200	P022	DAMA-15P-NMB			
	312300	P003		13	HSFCU	122200	P030	DCMA-37S-NMB			
Date:			Name:				Date:			PA:	

Table 8.1-1: PFM SVM SPIRE SIH Bundle Massproperty after Rework

8.2 PFM SVM SPIRE SIH Bundle Over-shield Bonding Resistance-Test (SVM Plug-BS to DCU, FCU SIH BS)

SI Code	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	Bs-Bs / OV Shd Resistance [mΩ]	Date:	Operator
312200	P006	SCC340104401B032435PN	01	HSDCU	122300	P027	DCMA-37S-NMB			
			01	HSDCU	122300	P028	DCMA-37S-NMB			
			01	HSDCU	122300	P031	DCMA-37P-NMB			
			01	HSDCU	122300	P032	DCMA-37P-NMB			
312200	P005	SCC340104401B06G2435SN	02	HSDCU	122300	P023	DCMA-37S-NMB			
			02	HSDCU	122300	P024	DCMA-37S-NMB			
			02	HSDCU	122300	P025	DCMA-37S-NMB			
			02	HSDCU	122300	P026	DCMA-37S-NMB			
312100	P004	SCC340104401B06G2435SN	03	HSDCU	122300	P029	DDMA-78P-NMB			
			03	HSDCU	122300	P030	DDMA-78P-NMB			
312100	P003	SCC340104401B06G2435SN	04	HSDCU	122300	P020	DDMA-50S-NMB			
			04	HSDCU	122300	P021	DDMA-50S-NMB			
			04	HSDCU	122300	P022	DDMA-50S-NMB			
312100	P002	SCC340104401B06G2435SN	05	HSDCU	122300	P017	DDMA-50S-NMB			
			05	HSDCU	122300	P018	DDMA-50S-NMB			
			05	HSDCU	122300	P019	DDMA-50S-NMB			

SICode	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	Bs-Bs / OV Shd Resistance [mΩ]	Date:	Operator
312200	P003	SCC340104401B06G2435SN	06	HSDCU	122300	P014	DDMA-50S-NMB			
			06	HSDCU	122300	P015	DDMA-50S-NMB			
			06	HSDCU	122300	P016	DDMA-50S-NMB			
312200	P004	SCC340104401B06G2435SN	07	HSDCU	122300	P011	DDMA-50S-NMB			
			07	HSDCU	122300	P012	DDMA-50S-NMB			
			07	HSDCU	122300	P013	DDMA-50S-NMB			
312200	P001	SCC340104401B06G2435SN	08	HSDCU	122300	P008	DDMA-50S-NMB			
			08	HSDCU	122300	P009	DDMA-50S-NMB			
			08	HSDCU	122300	P010	DDMA-50S-NMB			
312200	P002	SCC340104401B06G2435SN	09	HSDCU	122300	P005	DDMA-50S-NMB			
			09	HSDCU	122300	P006	DDMA-50S-NMB			
			09	HSDCU	122300	P007	DDMA-50S-NMB			
312300	P006	SCC340104401B06G2435SN	10	HSFCU	122200	P011	DBMA-25P-NMB			
			10	HSFCU	122200	P023	DDMA-50P-NMB			
			10	HSFCU	122200	P025	DAMA-15P-NMB			
312300	P004	SCC340104401B06G2435SN	11	HSFCU	122200	P013	DEMA-09P-NMB			
			11	HSFCU	122200	P017	DCMA-37P-NMB			
			11	HSFCU	122200	P019	DCMA-37P-NMB			
			11	HSFCU	122200	P021	DAMA-15P-NMB			
			11	HSFCU	122200	P029	DCMA-37S-NMB			

SICode	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	Bs-Bs / OV Shd Resistance [mΩ]	Date:	Operator
312300	P005	SCC340104401B06G2435SN	12	HSFCU	122200	P012	DBMA-25P-NMB			
			12	HSFCU	122200	P024	DDMA-50P-NMB			
			12	HSFCU	122200	P026	DAMA-15P-NMB			
312300	P003	SCC340104401B06G2435SN	13	HSFCU	122200	P014	DEMA-09P-NMB			
			13	HSFCU	122200	P018	DCMA-37P-NMB			
			13	HSFCU	122200	P020	DCMA-37P-NMB			
			13	HSFCU	122200	P022	DAMA-15P-NMB			
			13	HSFCU	122200	P030	DCMA-37S-NMB			
			02_04	HSSVMCB1	312100	P01A	DAMA-09P-NMB			
			02_04	HSSVMCB1	312100	P01B	DCMA-09P-NMB			
Date:		Name:			Date:			PA:		

Table 8.2-1: PFM SVM SPIRE SIH Bundle Over-shield Bonding Resistance-Test

8.2.1 PFM SVM SPIRE SIH Bundle FCR Continuity-Resistance Test

After rework completion, the SPIRE SVM SIH bundle wiring shall be tested in accordance to the EICD ref. HP-2-ASED-IC-0016 Issue: 2.1.

The test shall provide the confidence, that all former isolated FCR contacts (inner over-shield (IOS) have contact to the outer over-shield (OOS) after the SIH rework.

In addition the test will show that isolated GND- and other wiring-star points stay isolated as before.

Test steps identified in bolted letters shall show an isolation resistance of >10Mohm, for all others the continuity resistances shall be measured in "milli Ohm" values.

Alls tests shall be performed by use of a DVM.

The tests shall be performed according tables provided below. For further details, the PFM SPIRE SVM EICD listings are provided in this chapter too.

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB1	312100	P002	128	SPIRE PMW B05 GND WIRE A2	05	T01C0-26	S452	HSDCU	122300	P018	009		
HSSVMCB1	312100	P002	128	SPIRE PMW B05 GND WIRE A2	05			HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	036	SPIRE PMW B05 GND WIRE A1	05	T01C0-26	S451	HSDCU	122300	P017	009		
HSSVMCB1	312100	P002	036	SPIRE PMW B05 GND WIRE A1	05			HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	047	Interconnection Star Pin	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	004	to be con to pin 047	05		-	HSSVMCB1	312100	P002	047		
HSSVMCB1	312100	P002	036	to be con to pin 047	05		-	HSSVMCB1	312100	P002	047		
HSSVMCB1	312100	P002	128	to be con to pin 047	05		-	HSSVMCB1	312100	P002	047		
HSSVMCB1	312100	P002	123	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	014	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	015	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	024	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	025	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	035	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	082	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	093	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	094	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	104	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	105	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	114	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	115	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB1	312100	P002	122	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	006	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	124	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	125	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	126	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	127	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	121	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	008	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	007	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	001	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	002	to be con as part of FCR	05		-	HSSVMCB1	312100	P002	CH		
HSSVMCB1	312100	P002	003	to be con as part of FCR	05		-	HSDCU	122300	P017	CH		
HSSVMCB1	312100	P002	005	to be con as part of FCR	05		-	HSDCU	122300	P018	CH		
HSSVMCB1	312100	P002	CH	to be con to Outer Overall Shield (OOS)	05		-	HSDCU	122300	P019	CH		
HSSVMCB1	312100	P002	FCR	to be con to Inner Overall Shield (IOS)	05		-						
Date:			Name:			Date:			PA:				

Table 8.2-2: SPIRE SVM SIH-SS-05 - 312100 P002

SItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB1	312100	P003	128	SPIRE PMW B04 GND Wire A2	04	010B0-30	S442	HSDCU	122300	P021	009		
HSSVMCB1	312100	P003	128	SPIRE PMW B04 GND Wire A2	04			HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	047	Interconnection Star Pin	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	004	to be con to pin 047	04		-	HSSVMCB1	312100	P003	047		
HSSVMCB1	312100	P003	128	to be con to pin 047	04		-	HSSVMCB1	312100	P003	047		
HSSVMCB1	312100	P003	036	to be con to pin 047	04		-	HSSVMCB1	312100	P003	047		
HSSVMCB1	312100	P003	-		04		-	HSSVMCB1					
HSSVMCB1	312100	P003	015	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	014	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	008	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	007	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	006	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	005	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	003	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	002	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	035	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	001	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	124	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	127	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	024	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	125	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	025	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		

HSSVMCB1	312100	P003	123	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
----------	--------	------	-----	--------------------------	----	--	---	----------	--------	------	----	--	--

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB1	312100	P003	122	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	121	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	114	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	104	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	094	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	093	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	082	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	105	to be con as part of FCR	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P003	126	to be con as part of FCR	04		-	HSDCU	122300	P020	CH		
HSSVMCB1	312100	P003	115	to be con as part of FCR	04		-	HSDCU	122300	P022	CH		
HSSVMCB1	312100	P003	CH	to be con to Outer Overall Shield (OOS)	04		-	HSDCU	122300	P021	CH		
HSSVMCB1	312100	P003	FCR	to be con to Inner Overall Shield (IOS)	04								
Date:			Name:			Date:			PA:				

Table 8.2-3: SPIRE SVM SIH-SS-04 - 312100 P003

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB1	312100	P01B	008	interconnection Star Pin	04		-	HSSVMCB1	312100	P01B	002		
HSSVMCB1	312100	P01B	002	interconnection Star Pin	04		-	HSSVMCB1	312100	P01B	CH		
HSSVMCB1	312100	P01B	008	interconnection Star Pin	04		-	HSSVMCB1	312100	P01B	CH		
HSSVMCB1	312100	P01B	-		04		-						
HSSVMCB1	312100	P01B	009	to be con as part of FCR (single pin !)	04		-	HSSVMCB1	312100	P01B	CH		
HSSVMCB1	312100	P01B	009	to be con as part of FCR (single pin !)	04		-	HSSVMCB1	312100	P003	CH		
HSSVMCB1	312100	P01B	009	to be con as part of FCR (single pin !)	04		-	HSDCU	122300	P020	CH		
HSSVMCB1	312100	P01B	009	to be con as part of FCR (single pin !)	04		-	HSDCU	122300	P021	CH		
HSSVMCB1	312100	P01B	009	to be con as part of FCR (single pin !)	04		-	HSDCU	122300	P022	CH		
HSSVMCB1	312100	P01B	CH	to be con to Outer Overall shield (OOS)	04		-	HSDCU	122300	P022	CH		
HSSVMCB1	312100	P01B	FCR	to be con to Inner Overall Shield (IOS)	04								
Date:			Name:			Date:			PA:				

Table 8.2-4: SPIRE SVM SIH-SS-04 - 312100 P01B

SItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB1	312100	P004	001	SPIRE PSW_JFETV GND A3	03	T01C0-26	S433	HSDCU	122300	P030	027		
HSSVMCB1	312100	P004	001	SPIRE PSW_JFETV GND A3	03			HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	006	SPIRE PMW_GND A4	03	T01C0-26	S438	HSDCU	122300	P030	034		
HSSVMCB1	312100	P004	006	SPIRE PMW_GND A4	03			HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	036	SPIRE PSW_JFETV GND A1	03	T01C0-26	S431	HSDCU	122300	P029	027		
HSSVMCB1	312100	P004	036	SPIRE PSW_JFETV GND A1	03			HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	128	SPIRE PLW GND C2	03	T01C0-26	S437	HSDCU	122300	P029	078		
HSSVMCB1	312100	P004	128	SPIRE PLW GND C2	03			HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	064	SPIRE PMW_GND A2	03	T01C0-26	S435	HSDCU	122300	P029	034		
HSSVMCB1	312100	P004	064	SPIRE PMW_GND A2	03			HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	-		03		-						
HSSVMCB1	312100	P004	105	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	093	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	002	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	003	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	004	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	005	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	008	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	015	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	025	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	047	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	065	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		

HSSVMCB1	312100	P004	082	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
----------	--------	------	-----	--------------------------	----	--	---	----------	--------	------	----	--	--

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB1	312100	P004	094	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	114	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	115	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	121	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	122	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	123	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	124	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	125	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	126	to be con as part of FCR	03		-	HSSVMCB1	312100	P004	CH		
HSSVMCB1	312100	P004	127	to be con as part of FCR	03		-	HSDCU	122300	P029	CH		
HSSVMCB1	312100	P004	CH	to be con to Outer Overall Shield (OOS)	03		-	HSDCU	122300	P030	CH		
HSSVMCB1	312100	P004	FCR	to be con to Inner Overall Shield (IOS)	03		-						
Date:			Name:			Date:			PA:				

Table 8.2-5: SPIRE SVM SIH-SS-03 - 312100 P004

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P001	036	SPIRE PLW B08 GND WIRE A1	08	T01C0-26	S481	HSDCU	122300	P008	009		
HSSVMCB2	312200	P001	036	SPIRE PLW B08 GND WIRE A1	08			HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	128	SPIRE PLW B08 GND WIRE A2	08	T01C0-26	S482	HSDCU	122300	P009	009		
HSSVMCB2	312200	P001	128	SPIRE PLW B08 GND WIRE A2	08			HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	047	Interconnection Star Pin	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	036	to be con to pin 047	08		-	HSSVMCB2	312200	P001	047		
HSSVMCB2	312200	P001	128	to be con to pin 047	08		-	HSSVMCB2	312200	P001	047		
HSSVMCB2	312200	P001	004	to be con to pin 047	08		-	HSSVMCB2	312200	P001	047		
HSSVMCB2	312200	P001	-		08		-						
HSSVMCB2	312200	P001	114	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	005	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	006	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	007	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	008	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	014	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	015	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	024	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	025	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	035	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	082	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	093	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	094	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		



HSSVMCB2	312200	P001	105	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
----------	--------	------	-----	--------------------------	----	--	---	----------	--------	------	----	--	--

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P001	001	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	115	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	121	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	122	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	123	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	124	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	125	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	126	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	127	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	104	to be con as part of FCR	08		-	HSSVMCB2	312200	P001	CH		
HSSVMCB2	312200	P001	003	to be con as part of FCR	08		-	HSDCU	122300	P008	CH		
HSSVMCB2	312200	P001	002	to be con as part of FCR	08		-	HSDCU	122300	P009	CH		
HSSVMCB2	312200	P001	CH	to be con to Outer Overall Shield (OOS)	08		-	HSDCU	122300	P010	CH		
HSSVMCB2	312200	P001	FCR	to be con to Inner Overall Shield (IOS)	08		-						
Date:		Name:			Date:			PA:					

Table 8.2-6: SPIRE SVM SIH-SS-08 - 312200 P001

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P002	036	SPIRE PLW B09 GND WIRE A1	09	T01C0-26	S491	HSDCU	122300	P005	009		
HSSVMCB2	312200	P002	036	SPIRE PLW B09 GND WIRE A1	09			HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	128	SPIRE PLW B09 GND WIRE A2	09	T01C0-26	S492	HSDCU	122300	P006	009		
HSSVMCB2	312200	P002	128	SPIRE PLW B09 GND WIRE A2	09			HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	004	SPIRE PLW B09 GND WIRE A4	09	T01C0-26	S494	HSDCU	122300	P007	009		
HSSVMCB2	312200	P002	004	SPIRE PLW B09 GND WIRE A4	09			HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	047	Interconnection Star Pin	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	004	to be con to pin 047	09		-	HSSVMCB2	312200	P002	047		
HSSVMCB2	312200	P002	036	to be con to pin 047	09		-	HSSVMCB2	312200	P002	047		
HSSVMCB2	312200	P002	128	to be con to pin 047	09		-	HSSVMCB2	312200	P002	047		
HSSVMCB2	312200	P002	-		09		-	HSSVMCB2					
HSSVMCB2	312200	P002	123	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	014	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	015	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	024	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	025	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	035	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	082	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	093	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	094	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	104	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	105	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P002	114	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	115	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	005	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	122	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	006	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	124	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	125	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	126	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	127	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	121	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	008	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	007	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	001	to be con as part of FCR	09		-	HSSVMCB2	312200	P002	CH		
HSSVMCB2	312200	P002	002	to be con as part of FCR	09		-	HSDCU	122300	P005	CH		
HSSVMCB2	312200	P002	003	to be con as part of FCR	09		-	HSDCU	122300	P006	CH		
HSSVMCB2	312200	P002	CH	to be con to Outer Overall Shield (OOS)	09		-	HSDCU	122300	P007	CH		
HSSVMCB2	312200	P002	FCR	to be con to Inner Overall Shield (IOS)	09		-						
Date:			Name:			Date:			PA:				

Table 8.2-7: SPIRE SVM SIH-SS-09 - 312200 P002

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P003	128	SPIRE PMW B06 GND WIRE A2	06	T01C0-26	S462	HSDCU	122300	P015	009		
HSSVMCB2	312200	P003	128	SPIRE PMW B06 GND WIRE A2	06			HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	004	SPIRE PMW B06 GND WIRE A4	06	T01C0-26	S464	HSDCU	122300	P016	009		
HSSVMCB2	312200	P003	004	SPIRE PMW B06 GND WIRE A4	06			HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	036	SPIRE PLW B06 GND WIRE A1	06	T01C0-26	S461	HSDCU	122300	P014	009		
HSSVMCB2	312200	P003	036	SPIRE PLW B06 GND WIRE A1	06			HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	047	Interconnection Star Pin	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	004	to be con to pin 047	06		-	HSSVMCB2	312200	P003	047		
HSSVMCB2	312200	P003	128	to be con to pin 047	06		-	HSSVMCB2	312200	P003	047		
HSSVMCB2	312200	P003	036	to be con to pin 047	06		-	HSSVMCB2	312200	P003	047		
HSSVMCB2	312200	P003	-		06		-	HSSVMCB2					
HSSVMCB2	312200	P003	035	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	001	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	002	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	003	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	005	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	006	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	007	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	008	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	014	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	015	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		

HSSVMCB2	312200	P003	025	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
----------	--------	------	-----	--------------------------	----	--	---	----------	--------	------	----	--	--

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P003	082	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	093	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	094	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	104	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	105	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	114	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	115	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	121	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	122	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	123	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	024	to be con as part of FCR	06		-	HSSVMCB2	312200	P003	CH		
HSSVMCB2	312200	P003	125	to be con as part of FCR	06		-	HSDCU	122300	P014	CH		
HSSVMCB2	312200	P003	126	to be con as part of FCR	06		-	HSDCU	122300	P015	CH		
HSSVMCB2	312200	P003	CH	to be con to Outer Overall Shield (OOS)	06		-	HSDCU	122300	P016	CH		
HSSVMCB2	312200	P003	FCR	to be con to Inner Overall Shield (IOS)	06		-						
Date:			Name:			Date:			PA:				

Table 8.2-8: SPIRE SVM SIH-SS-06 - 312200 P003

SItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P004	128	SPIRE PLW B07 GND WIRE A2	07	T01C0-26	S472	HSDCU	122300	P012	009		
HSSVMCB2	312200	P004	128	SPIRE PLW B07 GND WIRE A2	07			HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	017	SPIRE PSW (6) Ch45-48	07	TS2CC-28	S174	HSDCU	122300	P013	014		
HSSVMCB2	312200	P004	017	SPIRE PSW (6) Ch45-48	07			HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	004	SPIRE PLW B07 GND WIRE A4	07	T01C0-26	S474	HSDCU	122300	P013	009		
HSSVMCB2	312200	P004	036	SPIRE PLW B07 GND WIRE A1	07			HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	047	Interconnection Star Pin	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	004	to be con to pin 047	07		-	HSSVMCB2	312200	P004	047		
HSSVMCB2	312200	P004	036	to be con to pin 047	07		-	HSSVMCB2	312200	P004	047		
HSSVMCB2	312200	P004	128	to be con to pin 047	07		-	HSSVMCB2	312200	P004	047		
HSSVMCB2	312200	P004	-		07		-	HSSVMCB2					
HSSVMCB2	312200	P004	122	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	008	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	014	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	015	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	024	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	025	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	035	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	082	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	093	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	094	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	104	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		

SItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P004	105	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	114	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	121	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	005	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	123	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	124	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	125	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	126	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	127	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	115	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	001	to be con as part of FCR	07		-	HSSVMCB2	312200	P004	CH		
HSSVMCB2	312200	P004	002	to be con as part of FCR	07		-	HSDCU	122300	P011	CH		
HSSVMCB2	312200	P004	003	to be con as part of FCR	07		-	HSDCU	122300	P012	CH		
HSSVMCB2	312200	P004	CH	to be con to Outer Overall Shield (OOS)	07		-	HSDCU	122300	P013	CH		
HSSVMCB2	312200	P004	FCR	to be con to Inner Overall Shield (IOS)	07		-						
Date:		Name:			Date:			PA:					

Table 8.2-9: SPIRE SVM SIH-SS-07 - 312200 P004

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P005	128	SPIRE B02 GND Wire A2	02	T01C0-26	S422	HSDCU	122300	P024	010		
HSSVMCB2	312200	P005	128	SPIRE B02 GND Wire A2	02			HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	036	SPIRE B02 GND Wire A3	02	T01C0-26	S423	HSDCU	122300	P026	010		
HSSVMCB2	312200	P005	036	SPIRE B02 GND Wire A3	02			HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	-		02		-	HSSVMCB2					
HSSVMCB2	312200	P005	015	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	125	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	024	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	025	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	035	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	093	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	094	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	104	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	105	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	114	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	115	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	121	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	122	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	008	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	124	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	006	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	126	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		

SItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P005	127	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	123	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	014	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	007	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	001	to be con as part of FCR	02		-	HSSVMCB2	312200	P005	CH		
HSSVMCB2	312200	P005	002	to be con as part of FCR	02		-	HSDCU	122300	P023	CH		
HSSVMCB2	312200	P005	003	to be con as part of FCR	02		-	HSDCU	122300	P024	CH		
HSSVMCB2	312200	P005	004	to be con as part of FCR	02		-	HSDCU	122300	P025	CH		
HSSVMCB2	312200	P005	CH	to be con to Outer Overall Shield (OOS)	02		-	HSDCU	122300	P026	CH		
HSSVMCB2	312200	P005	FCR	to be con to Inner Overall Shield (IOS)	02		-	HSSVMCB2					
Date:			Name:			Date:			PA:				

Table 8.2-10: SPIRE SVM SIH-SS-02 - 312200 P005

Sitem	SIcode	Schon	Spin	EfunDsg	SIH-SS-	CableT	Lcode5	Titem	TICode	Tcon	Tpin	> 10 MΩ	R_Ω
HSSVMCB1	312100	P01A	008	interconnection Star Pin	02		-	HSSVMCB1	312100	P01A	002		
HSSVMCB1	312100	P01A	002	interconnection Star Pin	02		-	HSSVMCB1	312100	P01A	CH		
HSSVMCB1	312100	P01A	008	interconnection Star Pin	02		-	HSSVMCB1	312100	P01A	CH		
HSSVMCB1	312100	P01A	-		02		-						
HSSVMCB1	312100	P01A	009	to be con as part of FCR (single pin !)	02		-	HSSVMCB1	312100	P01A	CH		
HSSVMCB1	312100	P01A	009	to be con as part of FCR (single pin !)	02		-	HSSVMCB1	312200	P005	CH		
HSSVMCB1	312100	P01A	009	to be con as part of FCR (single pin !)	02		-	HSDCU	122300	P023	CH		
HSSVMCB1	312100	P01A	009	to be con as part of FCR (single pin !)	02		-	HSDCU	122300	P024	CH		
HSSVMCB1	312100	P01A	009	to be con as part of FCR (single pin !)	02		-	HSDCU	122300	P025	CH		
HSSVMCB1	312100	P01A	CH	to be con to Outer Overall Shield (OOS)	02		-	HSDCU	122300	P026	CH		
HSSVMCB1	312100	P01A	FCR	to be con to Inner Overall Shield (IOS)	02		-						
Date:			Name:			Date:			PA:				

Table 8.2-11: SPIRE SVM SIH-SS-02 - 312100 P01A

SItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB2	312200	P006	122	SPIRE SLW GND Wire A2	01	T01C0-26	S402	HSDCU	122300	P028	010		
HSSVMCB2	312200	P006	122	SPIRE SLW GND Wire A2	01			HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	046	SPIRE PTC GND WIRE A3	01	T01C0-26	S403	HSDCU	122300	P031	002		
HSSVMCB2	312200	P006	046	SPIRE PTC GND WIRE A3	01			HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	093	SPIRE SSW GND Wire C3	01	T01C0-26	S406	HSDCU	122300	P031	012		
HSSVMCB2	312200	P006	093	SPIRE SSW GND Wire C3	01			HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	104	SPIRE SLW GND WIRE B3	01	T01C0-26	S405	HSDCU	122300	P031	006		
HSSVMCB2	312200	P006	104	SPIRE SLW GND WIRE B3	01			HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	004	SPIRE PTC GND Wire A4	01	T01C0-26	S404	HSDCU	122300	P032	002		
HSSVMCB2	312200	P006	004	SPIRE PTC GND Wire A4	01			HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	032	SPIRE SLW GND Wire B4	01	T01C0-26	S407	HSDCU	122300	P032	006		
HSSVMCB2	312200	P006	032	SPIRE SLW GND Wire B4	01			HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	040	SPIRE SSW GND Wire C4	01	T01C0-26	S408	HSDCU	122300	P032	012		
HSSVMCB2	312200	P006	040	SPIRE SSW GND Wire C4	01			HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	-		01		-	HSSVMCB2					
HSSVMCB2	312200	P006	128	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	094	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	005	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	006	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	015	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	022	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	025	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH		
HSSVMCB2	312200	P006	036	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH		

SItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω		
HSSVMCB2	312200	P006	039	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH				
HSSVMCB2	312200	P006	047	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH				
HSSVMCB2	312200	P006	126	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH				
HSSVMCB2	312200	P006	082	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH				
HSSVMCB2	312200	P006	105	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH				
HSSVMCB2	312200	P006	123	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH				
HSSVMCB2	312200	P006	124	to be con as part of FCR	01		-	HSSVMCB2	312200	P006	CH				
HSSVMCB2	312200	P006	125	to be con as part of FCR	01		-	HSDCU	122300	P027	CH				
HSSVMCB2	312200	P006	127	to be con as part of FCR	01		-	HSDCU	122300	P028	CH				
HSSVMCB2	312200	P006	058	to be con as part of FCR	01		-	HSDCU	122300	P031	CH				
HSSVMCB2	312200	P006	CH	to be con to Outer Overall Shield (OOS)	01		-	HSDCU	122300	P032	CH				
HSSVMCB2	312200	P006	FCR	to be con to Inner Overall Shield (IOS)	01		-	HSSVMCB2							
Date:				Name:				Date:				PA:			

Table 8.2-12: SPIRE SVM SIH-SS-01 - 312200 P006

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P003	027	Interconnection Star Pin	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	038	to be con to pin 027	13		-	HSSVMCB3	312300	P003	027		
HSSVMCB3	312300	P003	030	Interconnection Star Pin	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	029	to be con to pin 030	13		-	HSSVMCB3	312300	P003	030		
HSSVMCB3	312300	P003	031	to be con to pin 030	13		-	HSSVMCB3	312300	P003	030		
HSSVMCB3	312300	P003	045	Interconnection Star Pin	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	046	to be con to pin 045	13		-	HSSVMCB3	312300	P003	045		
HSSVMCB3	312300	P003	044	to be con to pin 045	13		-	HSSVMCB3	312300	P003	045		
HSSVMCB3	312300	P003	073	Interconnection Star Pin	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	084	to be con to pin 073	13		-	HSSVMCB3	312300	P003	073		
HSSVMCB3	312300	P003	077	Interconnection Star Pin	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	076	to be con to pin 077	13		-	HSSVMCB3	312300	P003	077		
HSSVMCB3	312300	P003	080	Interconnection Star Pin	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	078	to be con to pin 080	13		-	HSSVMCB3	312300	P003	080		
HSSVMCB3	312300	P003	081	to be con to pin 080	13		-	HSSVMCB3	312300	P003	080		
HSSVMCB3	312300	P003	109	Interconnection Star Pin	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	110	to be con to pin 109	13		-	HSSVMCB3	312300	P003	109		
HSSVMCB3	312300	P003	112	Interconnection Star Pin	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	112	to be con to pin 128	13		-	HSSVMCB3	312300	P003	128		
HSSVMCB3	312300	P003	-		13		-	HSSVMCB3					
HSSVMCB3	312300	P003	110	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	006	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		

SIItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P003	008	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	035	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	047	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	070	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	082	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	094	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	104	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	109	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	122	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	123	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	124	to be con as part of FCR	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P003	125	to be con as part of FCR	13		-	HSFCU	122200	P014	CH		
HSSVMCB3	312300	P003	126	to be con as part of FCR	13		-	HSFCU	122200	P018	CH		
HSSVMCB3	312300	P003	107	to be con as part of FCR	13		-	HSFCU	122200	P020	CH		
HSSVMCB3	312300	P003	001	to be con as part of FCR	13		-	HSFCU	122200	P022	CH		
HSSVMCB3	312300	P003	CH	to be con to Outer OverallShield (OOS)	13		-	HSFCU	122200	P030	CH		
HSSVMCB3	312300	P003	FCR	to be con to Inner Overall Shield (IOS)	13		-	HSSVMCB3					
Date:			Name:			Date:			PA:				

Table 8.2-13: SPIRE SVM SIH-SS-13 - 312300 P003

Sitem	SICode	Schon	Spin	EfunDsg	SIH-SS-	CableT	Lcode5	Titem	TICode	Tcon	Tpin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P002	CH	to be con to Overall Shield	13		-	HSSVMCB3	312300	P003	CH		
HSSVMCB3	312300	P002	CH	to be con to Overall Shield	13		-	HSFCU	122200	P014	CH		
HSSVMCB3	312300	P002	CH	to be con to Overall Shield	13		-	HSFCU	122200	P018	CH		
HSSVMCB3	312300	P002	CH	to be con to Overall Shield	13		-	HSFCU	122200	P020	CH		
HSSVMCB3	312300	P002	CH	to be con to Overall Shield	13		-	HSFCU	122200	P022	CH		
HSSVMCB3	312300	P002	CH	to be con to Overall Shield	13		-	HSFCU	122200	P030	CH		
Date:		Name:			Date:			PA:					

Table 8.2-14: SPIRE SVM SIH-SS-13 - 312300 P002

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P004	027	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	027	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	026	to be con to pin 027	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	038	to be con to pin 027	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	039	to be con to pin 027	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	030	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	030	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	029	to be con to pin 030	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	031	to be con to pin 030	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	045	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	045	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	044	to be con to pin 045	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	046	to be con to pin 045	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	073	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	073	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	084	to be con to pin 073	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	077	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	077	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	076	to be con to pin 077	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	080	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	080	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	081	to be con to pin 080	11		-	HSSVMCB3	312300	P004	CH		

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P004	079	to be con to pin 080	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	078	to be con to pin 080	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	109	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	109	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	110	to be con to pin 109	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	128	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	128	Interconnection Star Pin	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	121	to be con to pin 128	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	112	to be con to pin 128	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	-		11		-	HSSVMCB3					
HSSVMCB3	312300	P004	001	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	008	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	006	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	070	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	123	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	126	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	035	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	124	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	047	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	122	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	110	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		

SItem	SICode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P004	109	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	107	to be con as part of FCR	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P004	104	to be con as part of FCR	11		-	HSFCU	122200	P013	CH		
HSSVMCB3	312300	P004	094	to be con as part of FCR	11		-	HSFCU	122200	P017	CH		
HSSVMCB3	312300	P004	082	to be con as part of FCR	11		-	HSFCU	122200	P019	CH		
HSSVMCB3	312300	P004	125	to be con as part of FCR	11		-	HSFCU	122200	P021	CH		
HSSVMCB3	312300	P004	CH	to be con to Outer Overall Shield (OOS)	11		-	HSFCU	122200	P029	CH		
HSSVMCB3	312300	P004	FCR	to be con to Inner Overall Shield (IOS)	11		-						
Date:			Name:			Date:			PA:				

Table 8.2-15: SPIRE SVM SIH-SS-11 - 312300 P004

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P001	011	SPIRE BSMLchLtchConf(N)	11	TS2CC-28	S261	HSSVMCB3	312300	P004	108		
HSSVMCB3	312300	P001	011	SPIRE BSMLchLtchConf(N)	11			HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P001	009	Interconnection Star Pin	11		-	HSSVMCB3	312300	P001	010		
HSSVMCB3	312300	P001	009	Interconnection Star Pin	11		-	HSSVMCB3	312300	P001	CH		
HSSVMCB3	312300	P001	007	to be con to pin 005	11		-	HSSVMCB3	312300	P001	005		
HSSVMCB3	312300	P001	006	to be con to pin 005	11		-	HSSVMCB3	312300	P001	005		
HSSVMCB3	312300	P001	005	Interconnection Star Pin	11		-	HSSVMCB3	312300	P001	CH		
HSSVMCB3	312300	P001	002	Interconnection Star Pin	11		-	HSSVMCB3	312300	P001	003		
HSSVMCB3	312300	P001	002	Interconnection Star Pin	11		-	HSSVMCB3	312300	P001	CH		
HSSVMCB3	312300	P001	-		11		-	HSSVMCB3					
HSSVMCB3	312300	P001	CH	to be con to Overall Shield	11		-	HSSVMCB3	312300	P004	CH		
HSSVMCB3	312300	P001	CH	to be con to Overall Shield	11		-	HSFCU	122200	P013	CH		
HSSVMCB3	312300	P001	CH	to be con to Overall Shield	11		-	HSFCU	122200	P017	CH		
HSSVMCB3	312300	P001	CH	to be con to Overall Shield	11		-	HSFCU	122200	P019	CH		
HSSVMCB3	312300	P001	CH	to be con to Overall Shield	11		-	HSFCU	122200	P021	CH		
HSSVMCB3	312300	P001	CH	to be con to Overall Shield	11		-	HSFCU	122200	P029	CH		
Date:		Name:			Date:			PA:					

Table 8.2-16: SPIRE SVM SIH-SS-11 - 312300 P001

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P005	036	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	047	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	059	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	070	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	082	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	094	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	127	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	015	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	008	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	025	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	014	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	001	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	002	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	003	to be con as part of FCR	12		-	HSSVMCB3	312300	P005	CH		
HSSVMCB3	312300	P005	004	to be con as part of FCR	12		-	HSFCU	122200	P012	CH		
HSSVMCB3	312300	P005	007	to be con as part of FCR	12		-	HSFCU	122200	P024	CH		
HSSVMCB3	312300	P005	CH	to be con to Outer Overall Shield (OOS)	12		-	HSFCU	122200	P026	CH		
HSSVMCB3	312300	P005	FCR	to be con to Inner Overall Shield (IOS)	12		-						
Date:		Name:			Date:			PA:					

Table 8.2-17: SPIRE SVM SIH-SS-12 - 312300 P005

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	CableT	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB3	312300	P006	008	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	036	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	047	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	059	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	070	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	082	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	094	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	004	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	014	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	127	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	015	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	001	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	002	to be con as part oof FCR	10		-	HSSVMCB3	312300	P006	CH		
HSSVMCB3	312300	P006	003	to be con as part oof FCR	10		-	HSFCU	122200	P011	CH		
HSSVMCB3	312300	P006	007	to be con as part oof FCR	10		-	HSFCU	122200	P023	CH		
HSSVMCB3	312300	P006	CH	to be con to Outer Overall Shield (OOS)	10		-	HSFCU	122200	P025	CH		
HSSVMCB3	312300	P006	FCR	to be con to Inner Overall Shield (IOS)	10		-						
Date:			Name:			Date:			PA:				

Table 8.2-18: SPIRE SVM SIH-SS-10 - 312300 P006

SItem	SIcode	SCon	SPin	EFunDsg	SIH-SS-	EFunApp	LCode5	TItem	TICode	TCon	TPin	> 10 MΩ	R_Ω
HSSVMCB1	312100	J01A	002	SPIRE SSW PTC Ch's	02_04	SHD43	S053	HSSVMCB1	312100	J01B	002		
HSSVMCB1	312100	J01A	002	SPIRE SSW PTC Ch's	02_04			HSSVMCB1	312100	J01B	CH		
HSSVMCB1	312100	J01A	008	SPIRE SSW PTC Ch's	02_04	SHD44	S053	HSSVMCB1	312100	J01B	008		
HSSVMCB1	312100	J01A	008	SPIRE SSW PTC Ch's	02_04			HSSVMCB1	312100	J01B	CH		
HSSVMCB1	312100	J01A	008	SPIRE SSW PTC Ch's	02_04	SHD45	S053	HSSVMCB1	312100	J01B	008		
HSSVMCB1	312100	J01A	-		02_04	-	-	HSSVMCB1	312100	J01B	-		
HSSVMCB1	312100	J01A	008	interconnection Star Pin	02_04	-	-	HSSVMCB1	312100	J01B	002		
HSSVMCB1	312100	J01A	009	to be con as part of FCR (single pin !)	02_04	-	-	HSSVMCB1	312100	J01B	CH		
HSSVMCB1	312100	J01A	009	to be con as part of FCR (single pin !)	02_04	-	-	HSSVMCB1	312100	J01B	009		
HSSVMCB1	312100	J01A	CH	to be con to Outer Overall Shield (OOS)	02_04	-	-	HSSVMCB1	312100	J01B	CH		
HSSVMCB1	312100	J01A	FCR	to be con to Inner Overall Shield (IOS)	02_04	-	-	HSSVMCB1					
HSSVMCB1	312100	J01B	002	SPIRE SSW PTC Ch's	02_04	SHD49	S053	HSSVMCB1	312100	J01A	002		
HSSVMCB1	312100	J01B	002	SPIRE SSW PTC Ch's	02_04	SHD49		HSSVMCB1	312100	J01A	CH		
HSSVMCB1	312100	J01B	008	SPIRE SSW PTC Ch's	02_04	SHD50	S053	HSSVMCB1	312100	J01A	008		
HSSVMCB1	312100	J01B	008	SPIRE SSW PTC Ch's	02_04	SHD51		HSSVMCB1	312100	J01A	CH		
HSSVMCB1	312100	J01B	-		02_04	-	-	HSSVMCB1	312100	J01A	-		
HSSVMCB1	312100	J01B	008	interconnection Star Pin	02_04	-	-	HSSVMCB1	312100	J01A	002		
HSSVMCB1	312100	J01B	009	to be con as part of FCR (single pin !)	02_04	-	-	HSSVMCB1	312100	J01A	009		
HSSVMCB1	312100	J01B	009	to be con as part of FCR (single pin !)	02_04	-	-	HSSVMCB1	312100	J01A	CH		
HSSVMCB1	312100	J01B	CH	to be con to Outer Overall shield (OOS)	02_04	-	-	HSSVMCB1	312100	J01A	CH		
HSSVMCB1	312100	J01B	FCR	to be con to Inner Overall Shield (IOS)	02_04	-	-	HSSVMCB1					
Date:		Name:			Date:			PA:					

8.2.2 SPIRE SVM SIH EICD Extracts (Wiring-lists)

For further SIH-SS-01 to -13 the relevant pages of the SPIRE PFM SVM EICD, ref. HP-2-ASED-IC.-0016 Issue: 2.1 have been extracted, see below.

Astrium GmbH	Pin Allocation List	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL	(Harness)	Issue : 2.1 Date : 03.08.2006
		Sheet : 422 (of 666)

Connector: 312200 P006 Function / Bundle: SPIRE SVM CB2 SIH-XS-01 Conn.-Type: SCC340104401B06G2435SN
 Item: HSSVMCB2 Backshell: 380 FS 007 M24 05

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed	
		Circuit	Signal	Pos.											1S	1S
028	SPIRE SLW JFET Htr B . -ve	SSH.S	-		S046	TS2CC-28	48				HSDCU	17	122300 P032	036	1S	1S
039	SPIRE SLW JFET Htr B . SHD48	SSH.S	-		S046	TS2CC-28	48		CS-S046		HSDCU	17	122300 P032	CH	1S	1S
-																
009	SPIRE SSW JFET Htr B . +ve	SSG.S	-		S047	TS2CC-28	49				HSDCU	17	122300 P032	037	1S	1S
017	SPIRE SSW JFET Htr B . -ve	SSG.S	-		S047	TS2CC-28	49				HSDCU	17	122300 P032	019	1S	1S
039	SPIRE SSW JFET Htr B . SHD49	SSG.S	-		S047	TS2CC-28	49		CS-S047		HSDCU	17	122300 P032	CH	1S	1S
-																
016	SPIRE PTC JFET Htr B . +ve	S3B.S	-		S040	TS2CC-28	50				HSDCU	17	122300 P032	016	1S	1S
027	SPIRE PTC JFET Htr B . -ve	S3B.S	-		S040	TS2CC-28	50				HSDCU	17	122300 P032	035	1S	1S
039	SPIRE PTC JFET Htr B . SHD50	S3B.S	-		S040	TS2CC-28	50		CS-S040		HSDCU	17	122300 P032	CH	1S	1S
-																
005	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
006	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
015	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
022	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
025	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
036	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
039	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
047	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
058	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
082	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
094	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
105	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
123	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
124	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
125	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
126	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
127	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
128	to be con as part of FCR								Faraday Cage Ring (FCR)						1S	
-																
FCR	to be con to Inner Overall Shield (IOS)								Insulation required between IOS and OOS						1S	
-																

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 441 (of 666)

Connector: 312200 P005
Item: HSSVMCB2

Function / Bundle: SPIRE SVM CB2 SIH-XS-02

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M24 05

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
036	SPIRE B02 GND Wire A3		SSX.S	-	S423	T01C0-26					HSDCU	17	122300 P026	010	1S
-															1S
095	SPIRE SSW PTC Ch's . 1+		S3D.2	-	S053	TS2CC-28	43	053-1			HSSVMCB1	27	312100 P01A	001	1S 1S 1S
084	SPIRE SSW PTC Ch's . 1-		S3D.2	-	S053	TS2CC-28	43	053-1			HSSVMCB1	27	312100 P01A	006	1S 1S 1S
082	SPIRE SSW PTC Ch's . SHD43		S3D.2	-	S053	TS2CC-28	43	053-1	CS-053-1		HSSVMCB1	27	312100 P01A	002	1S 1S 1S
-															
096	SPIRE SSW PTC Ch's . 2+		S3D.2	-	S053	TS2CC-28	44	053-2			HSSVMCB1	27	312100 P01A	003	1S 1S 1S
085	SPIRE SSW PTC Ch's . 2-		S3D.2	-	S053	TS2CC-28	44	053-2			HSSVMCB1	27	312100 P01A	007	1S 1S 1S
082	SPIRE SSW PTC Ch's . SHD44		S3D.2	-	S053	TS2CC-28	44	053-2	CS-S053-2		HSSVMCB1	27	312100 P01A	008	1S 1S 1S
-															
106	SPIRE SSW PTC Ch's . 3+		S3D.2	-	S053	TS2CC-28	45	053-3			HSSVMCB1	27	312100 P01A	004	1S 1S 1S
107	SPIRE SSW PTC Ch's . 3-		S3D.2	-	S053	TS2CC-28	45	053-3			HSSVMCB1	27	312100 P01A	005	1S 1S 1S
082	SPIRE SSW PTC Ch's . SHD45		S3D.2	-	S053	TS2CC-28	45	053-3	CS-S053-3		HSSVMCB1	27	312100 P01A	008	1S 1S 1S
-															
001	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
002	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
003	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
004	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
006	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
007	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
008	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
014	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
015	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
024	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
025	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
035	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
093	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
094	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
104	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
105	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
114	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
115	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
121	to be con as part of FCR								Faraday Cage Ring (FCR)						1S

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 442 (of 666)

Connector: 312200 P005
Item: HSSVMCB2

Function / Bundle: SPIRE SVM CB2 SIH-XS-02

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M24 05

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
122	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
123	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
124	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
125	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
126	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
127	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
-															
FCR	to be con to Inner Overall Shield (IOS)									Insulation required between IOS and OOS					1S
-															1S
CH	to be con to Outer Overall Shield (OOS)									Insulation required between IOS and OOS					1S
-															1S
-	8 pins are NC									The following Pins are NC :					
-	-									;063 ;064 ;065 ;072 ;073 ;074 ;075 ;083					



Procedure

Herschel

Astrium GmbH	Pin Allocation List	Doc. No. : HP-2-ASED-IC-0016	
Project: HERSCHEL	(Harness)	Issue : 2.1	Date : 03.08.2006
		Sheet : 460 (of 666)	

Connector: 312100 P004
Item: HSSVMCB1

Function / Bundle: SPIRE SVM CB1 SIH-XS-03

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M24 05

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
091	SPIRE PLW_Bias1_B . SHD49		SPD.S -		S231	TS2CC-28	49			CS-S231	HSDCU	17	122300 P030	056	1S 1S
-															
058	SPIRE PLW_Bias2_B . B+		SPD.S -		S232	TS2CC-28	50				HSDCU	17	122300 P030	077	1S 1S
046	SPIRE PLW_Bias2_B . B-		SPD.S -		S232	TS2CC-28	50				HSDCU	17	122300 P030	057	1S 1S
091	SPIRE PLW_Bias2_B . SHD50		SPD.S -		S232	TS2CC-28	50			CS-S232	HSDCU	17	122300 P030	058	1S 1S
-															
091	SPIRE PLW_GND C4		SPX.S -		S440	T01C0-26				GND Wire (E2)	HSDCU	17	122300 P030	078	1S 1S
-															
002	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
003	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
004	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
005	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
008	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
015	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
025	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
047	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
065	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
082	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
093	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
094	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
105	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
114	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
115	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
121	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
122	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
123	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
124	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
125	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
126	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
127	to be con as part of FCR		-							Faraday Cage Ring (FCR)					1S
-															
FCR	to be con to Inner Overall Shield (IOS)									Insulation required between IOS and OOS					1S

SPIRE_PFM_4_6_20060731_1520

Connector : 2312100P004 / Page 7 of 8

Bundle : SIH-SS-03

Doc. No: HP-2-ASED-PR-0087

Issue: 1

Date: 16.04.07

File: HP-2-ASED-PR-0087_1.doc

Astrium GmbH	Pin Allocation List	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL	(Harness)	Issue : 2.1 Date : 03.08.2006
		Sheet : 479 (of 666)

Connector: 312100 P003
Item: HSSVMCB1

Function / Bundle: SPIRE SVM CB1 SIH-XS-04

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M24 05

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
017	SPIRE PMW Ch45 to 48 . 45-	SPB.S	-		S082	TS2CC-28	45	082-1			HSDCU	17	122300 P022	011	1S 1S
004	SPIRE PMW Ch45 to 48 . SHD45	SPB.S	-		S082	TS2CC-28	45	082-1	CS-S082-1		HSDCU	17	122300 P022	044	1S 1S
-															
018	SPIRE PMW Ch45 to 48 . 46+	SPB.S	-		S082	TS2CC-28	46	082-2			HSDCU	17	122300 P022	028	1S 1S
028	SPIRE PMW Ch45 to 48 . 46-	SPB.S	-		S082	TS2CC-28	46	082-2			HSDCU	17	122300 P022	012	1S 1S
004	SPIRE PMW Ch45 to 48 . SHD46	SPB.S	-		S082	TS2CC-28	46	082-2	CS-S082-2		HSDCU	17	122300 P022	045	1S 1S
-															
016	SPIRE PMW Ch45 to 48 . 47+	SPB.S	-		S082	TS2CC-28	47	082-3			HSDCU	17	122300 P022	029	1S 1S
027	SPIRE PMW Ch45 to 48 . 47-	SPB.S	-		S082	TS2CC-28	47	082-3			HSDCU	17	122300 P022	013	1S 1S
004	SPIRE PMW Ch45 to 48 . SHD47	SPB.S	-		S082	TS2CC-28	47	082-3	CS-S082-3		HSDCU	17	122300 P022	046	1S 1S
-															
040	SPIRE PMW Ch45 to 48 . 48+	SPB.S	-		S082	TS2CC-28	48	082-4			HSDCU	17	122300 P022	030	1S 1S
039	SPIRE PMW Ch45 to 48 . 48-	SPB.S	-		S082	TS2CC-28	48	082-4			HSDCU	17	122300 P022	014	1S 1S
004	SPIRE PMW Ch45 to 48 . SHD48	SPB.S	-		S082	TS2CC-28	48	082-4	CS-S082-4		HSDCU	17	122300 P022	047	1S 1S
-															
004	SPIRE PMW B04 GND Wire A4	SPX.-	-		S444	010B0-30					HSDCU	17	122300 P022	009	1S 1S
-															
047	Interconnection Star Pin								star pin for shield interconnection						1S
036	to be con to pin 047														1S
128	to be con to pin 047														1S
004	to be con to pin 047														1S
-															1S
001	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
002	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
003	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
005	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
006	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
007	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
008	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
014	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
015	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
024	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
025	to be con as part of FCR								Faraday Cage Ring (FCR)						1S

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 480 (of 666)

Connector: 312100 P003
Item: HSSVMCB1

Function / Bundle: SPIRE SVM CB1 SIH-XS-04

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M24 05

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
035	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
082	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
093	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
094	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
104	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
105	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
114	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
115	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
121	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
122	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
123	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
124	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
125	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
126	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
127	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
-															
FCR	to be con to Inner Overall Shield (IOS)									Insulation required between IOS and OOS					1S
-															1S
CH	to be con to Outer Overall Shield (OOS)									Insulation required between IOS and OOS					1S
-															
-	8 pins are NC									The following Pins are NC :					1S
-	-									;064 ;065 ;084 ;085 ;095 ;096 ;106 ;107					

Astrium GmbH	Pin Allocation List	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL	(Harness)	Issue : 2.1 Date : 03.08.2006
		Sheet : 501 (of 666)

Connector: 312100 P002
Item: HSSVMCB1

Function / Bundle: SPIRE SVM CB1 SIH-XS-05

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M 24 07

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
004	SPIRE PMW Ch41-44 . SHD42		SPB.S	-	S100	TS2CC-28	42	100-2		CS-S100-2	HSDCU	17	122300 P019	044	1S 1S
-															
041	SPIRE PMW Ch41-44 . 43+		SPB.S	-	S100	TS2CC-28	43	100-3			HSDCU	17	122300 P019	028	1S 1S
030	SPIRE PMW Ch41-44 . 43-		SPB.S	-	S100	TS2CC-28	43	100-3			HSDCU	17	122300 P019	012	1S 1S
004	SPIRE PMW Ch41-44 . SHD43		SPB.S	-	S100	TS2CC-28	43	100-3		CS-S100-3	HSDCU	17	122300 P019	045	1S 1S
-															
053	SPIRE PMW Ch41-44 . 44+		SPB.S	-	S100	TS2CC-28	44	100-4			HSDCU	17	122300 P019	029	1S 1S
052	SPIRE PMW Ch41-44 . 44-		SPB.S	-	S100	TS2CC-28	44	100-4			HSDCU	17	122300 P019	013	1S 1S
004	SPIRE PMW Ch41-44 . SHD44		SPB.S	-	S100	TS2CC-28	44	100-4		CS-S100-4	HSDCU	17	122300 P019	046	1S 1S
-															
009	SPIRE PMW Ch45-48 . 45+		SPB.S	-	S101	TS2CC-28	45	101-1			HSDCU	17	122300 P019	030	1S 1S
017	SPIRE PMW Ch45-48 . 45-		SPB.S	-	S101	TS2CC-28	45	101-1			HSDCU	17	122300 P019	014	1S 1S
004	SPIRE PMW Ch45-48 . SHD45		SPB.S	-	S101	TS2CC-28	45	101-1		CS-S101-1	HSDCU	17	122300 P019	047	1S 1S
-															
018	SPIRE PMW Ch45-48 . 46+		SPB.S	-	S101	TS2CC-28	46	101-2			HSDCU	17	122300 P019	031	1S 1S
028	SPIRE PMW Ch45-48 . 46-		SPB.S	-	S101	TS2CC-28	46	101-2			HSDCU	17	122300 P019	015	1S 1S
004	SPIRE PMW Ch45-48 . SHD46		SPB.S	-	S101	TS2CC-28	46	101-2		CS-S101-2	HSDCU	17	122300 P019	048	1S 1S
-															
016	SPIRE PMW Ch45-48 . 47+		SPB.S	-	S101	TS2CC-28	47	101-3			HSDCU	17	122300 P019	032	1S 1S
027	SPIRE PMW Ch45-48 . 47-		SPB.S	-	S101	TS2CC-28	47	101-3			HSDCU	17	122300 P019	016	1S 1S
004	SPIRE PMW Ch45-48 . SHD47		SPB.S	-	S101	TS2CC-28	47	101-3		CS-S101-3	HSDCU	17	122300 P019	049	1S 1S
-															
040	SPIRE PMW Ch45-48 . 48+		SPB.S	-	S101	TS2CC-28	48	101-4			HSDCU	17	122300 P019	033	1S 1S
039	SPIRE PMW Ch45-48 . 48-		SPB.S	-	S101	TS2CC-28	48	101-4			HSDCU	17	122300 P019	017	1S 1S
004	SPIRE PMW Ch45-48 . SHD48		SPB.S	-	S101	TS2CC-28	48	101-4		CS-S101-4	HSDCU	17	122300 P019	050	1S 1S
-															
004	SPIRE PMW B05 GND WIRE A4		SPX.S	-	S454	T01C0-26					HSDCU	17	122300 P019	009	1S 1S
-															
047	Interconnection Star Pin		-	-						star pin for shield interconnection					1S
004	to be con to pin 047		-	-											1S
036	to be con to pin 047		-	-											1S
128	to be con to pin 047		-	-											1S
-															1S
001	to be con as part of FCR									Faraday Cage Ring (FCR)					1S



Procedure

Herschel

Astrium GmbH Project: HERSCHEL	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016 Issue : 2.1 Date : 03.08.2006 Sheet : 502 (of 666)
---	--	--

Connector: 312100 P002 **Function / Bundle:** SPIRE SVM CB1 SIH-XS-05 **Conn.-Type:** SCC340104401B06G2435SN
Item: HSSVMCB1 **Backshell:** 380 FS 007 M 24 07

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.									
002	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
003	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
005	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
006	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
007	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
008	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
014	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
015	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
024	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
025	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
035	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
082	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
093	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
094	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
104	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
105	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
114	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
115	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
121	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
122	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
123	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
124	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
125	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
126	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
127	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
-													
FCR	to be con to Inner Overall Shield (IOS)						Insulation required between IOS and OOS						1S
-													1S
CH	to be con to Outer Overall Shield (OOS)						Insulation required between IOS and OOS						1S
-													1S
-	2 pins are NC						The following Pins are NC :						

SPIRE_PFM_4_6_20060731_1529

Connector : 2312100P002 / Page 7 of 8

Bundle : SIH-SS-05

Doc. No: HP-2-ASED-PR-0087
 Issue: 1
 Date: 16.04.07

File: HP-2-ASED-PR-0087_1.doc

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 521 (of 666)

Connector: 312200 P003 Function / Bundle: SPIRE SVM CB2 SIH-XS-06 Conn.-Type: SCC340104401B06G2435SN
 Item: HSSVMCB2 Backshell: 380 FS 007 M 24 08

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
029	SPIRE PLW Ch41-44 . 42-	SPA.S	-		S119	TS2CC-28	42	119-2			HSDCU	17	122300 P016	011	1S 1S
004	SPIRE PLW Ch41-44 . SHD42	SPA.S	-		S119	TS2CC-28	42	119-2	CS-S119-2		HSDCU	17	122300 P016	044	1S 1S
041	SPIRE PLW Ch41-44 . 43+	SPA.S	-		S119	TS2CC-28	43	119-3			HSDCU	17	122300 P016	028	1S 1S
030	SPIRE PLW Ch41-44 . 43-	SPA.S	-		S119	TS2CC-28	43	119-3			HSDCU	17	122300 P016	012	1S 1S
004	SPIRE PLW Ch41-44 . SHD43	SPA.S	-		S119	TS2CC-28	43	119-3	CS-S119-3		HSDCU	17	122300 P016	045	1S 1S
053	SPIRE PLW Ch41-44 . 44+	SPA.S	-		S119	TS2CC-28	44	119-4			HSDCU	17	122300 P016	029	1S 1S
052	SPIRE PLW Ch41-44 . 44-	SPA.S	-		S119	TS2CC-28	44	119-4			HSDCU	17	122300 P016	013	1S 1S
004	SPIRE PLW Ch41-44 . SHD44	SPA.S	-		S119	TS2CC-28	44	119-4	CS-S119-4		HSDCU	17	122300 P016	046	1S 1S
009	SPIRE PLW Ch45-48 . 45+	SPA.S	-		S120	TS2CC-28	45	120-1			HSDCU	17	122300 P016	030	1S 1S
017	SPIRE PLW Ch45-48 . 45-	SPA.S	-		S120	TS2CC-28	45	120-1			HSDCU	17	122300 P016	014	1S 1S
004	SPIRE PLW Ch45-48 . SHD45	SPA.S	-		S120	TS2CC-28	45	120-1	CS-S120-1		HSDCU	17	122300 P016	047	1S 1S
018	SPIRE PLW Ch45-48 . 46+	SPA.S	-		S120	TS2CC-28	46	120-2			HSDCU	17	122300 P016	031	1S 1S
028	SPIRE PLW Ch45-48 . 46-	SPA.S	-		S120	TS2CC-28	46	120-2			HSDCU	17	122300 P016	015	1S 1S
004	SPIRE PLW Ch45-48 . SHD46	SPA.S	-		S120	TS2CC-28	46	120-2	CS-S120-2		HSDCU	17	122300 P016	048	1S 1S
016	SPIRE PLW Ch45-48 . 47+	SPA.S	-		S120	TS2CC-28	47	120-3			HSDCU	17	122300 P016	032	1S 1S
027	SPIRE PLW Ch45-48 . 47-	SPA.S	-		S120	TS2CC-28	47	120-3			HSDCU	17	122300 P016	016	1S 1S
004	SPIRE PLW Ch45-48 . SHD47	SPA.S	-		S120	TS2CC-28	47	120-3	CS-S120-3		HSDCU	17	122300 P016	049	1S 1S
040	SPIRE PLW Ch45-48 . 48+	SPA.S	-		S120	TS2CC-28	48	120-4			HSDCU	17	122300 P016	033	1S 1S
039	SPIRE PLW Ch45-48 . 48-	SPA.S	-		S120	TS2CC-28	48	120-4			HSDCU	17	122300 P016	017	1S 1S
004	SPIRE PLW Ch45-48 . SHD48	SPA.S	-		S120	TS2CC-28	48	120-4	CS-S120-4		HSDCU	17	122300 P016	050	1S 1S
004	SPIRE PMW B06 GND WIRE A4	SPX.S	-		S464	T01C0-26					HSDCU	17	122300 P016	009	1S 1S
047	Interconnection Star Pin	-	-						star pin for shield interconnection						1S
036	to be con to pin 047														1S
128	to be con to pin 047														1S
004	to be con to pin 047														1S

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 522 (of 666)

Connector: 312200 P003
Item: HSSVMCB2

Function / Bundle: SPIRE SVM CB2 SIH-XS-06

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M 24 08

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.									
001	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
002	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
003	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
005	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
006	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
007	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
008	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
014	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
015	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
024	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
025	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
035	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
082	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
093	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
094	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
104	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
105	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
114	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
115	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
121	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
122	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
123	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
124	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
125	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
126	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
127	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
-													
FCR	to be con to Inner Overall Shield (IOS)						Insulation required between IOS and OOS						1S
-													1S
CH	to be con to Outer Overall Shield (OOS)						Insulation required between IOS and OOS						1S
-													1S

Astrium GmbH	Pin Allocation List	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL	(Harness)	Issue : 2.1 Date : 03.08.2006
		Sheet : 541 (of 666)

Connector: 312200 P004
Item: HSSVMCB2

Function / Bundle: SPIRE SVM CB2 SIH-XS-07

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M 24 08

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
004	SPIRE PSW (6) Ch41-44 . SHD42	SPC.S	-		S173	TS2CC-28	42	173-2		CS-S173-2	HSDCU	17	122300 P013	044	1S 1S
-															
041	SPIRE PSW (6) Ch41-44 . 43+	SPC.S	-		S173	TS2CC-28	43	173-3			HSDCU	17	122300 P013	028	1S 1S
030	SPIRE PSW (6) Ch41-44 . 43-	SPC.S	-		S173	TS2CC-28	43	173-3			HSDCU	17	122300 P013	012	1S 1S
004	SPIRE PSW (6) Ch41-44 . SHD43	SPC.S	-		S173	TS2CC-28	43	173-3		CS-S173-3	HSDCU	17	122300 P013	045	1S 1S
-															
053	SPIRE PSW (6) Ch41-44 . 44+	SPC.S	-		S173	TS2CC-28	44	173-4			HSDCU	17	122300 P013	029	1S 1S
052	SPIRE PSW (6) Ch41-44 . 44-	SPC.S	-		S173	TS2CC-28	44	173-4			HSDCU	17	122300 P013	013	1S 1S
004	SPIRE PSW (6) Ch41-44 . SHD44	SPC.S	-		S173	TS2CC-28	44	173-4		CS-S173-4	HSDCU	17	122300 P013	046	1S 1S
-															
009	SPIRE PSW (6) Ch45-48 . 45+	SPC.S	-		S174	TS2CC-28	45	174-1			HSDCU	17	122300 P013	030	1S 1S
017	SPIRE PSW (6) Ch45-48 . 45-	SPC.S	-		S174	TS2CC-28	45	174-1			HSDCU	17	122300 P013	014	1S 1S
004	SPIRE PSW (6) Ch45-48 . SHD45	SPC.S	-		S174	TS2CC-28	45	174-1		CS-S174-1	HSDCU	17	122300 P013	047	1S 1S
-															
018	SPIRE PSW (6) Ch45-48 . 46+	SPC.S	-		S174	TS2CC-28	46	174-2			HSDCU	17	122300 P013	031	1S 1S
028	SPIRE PSW (6) Ch45-48 . 46-	SPC.S	-		S174	TS2CC-28	46	174-2			HSDCU	17	122300 P013	015	1S 1S
004	SPIRE PSW (6) Ch45-48 . SHD46	SPC.S	-		S174	TS2CC-28	46	174-2		CS-S174-2	HSDCU	17	122300 P013	048	1S 1S
-															
016	SPIRE PSW (6) Ch45-48 . 47+	SPC.S	-		S174	TS2CC-28	47	174-3			HSDCU	17	122300 P013	032	1S 1S
027	SPIRE PSW (6) Ch45-48 . 47-	SPC.S	-		S174	TS2CC-28	47	174-3			HSDCU	17	122300 P013	016	1S 1S
004	SPIRE PSW (6) Ch45-48 . SHD47	SPC.S	-		S174	TS2CC-28	47	174-3		CS-S174-3	HSDCU	17	122300 P013	049	1S 1S
-															
040	SPIRE PSW (6) Ch45-48 . 48+	SPC.S	-		S174	TS2CC-28	48	174-4			HSDCU	17	122300 P013	033	1S 1S
039	SPIRE PSW (6) Ch45-48 . 48-	SPC.S	-		S174	TS2CC-28	48	174-4			HSDCU	17	122300 P013	017	1S 1S
004	SPIRE PSW (6) Ch45-48 . SHD48	SPC.S	-		S174	TS2CC-28	48	174-4		CS-S174-4	HSDCU	17	122300 P013	050	1S 1S
-															
004	SPIRE PLW B07 GND WIRE A4	SPX.S	-		S474	T01C0-26					HSDCU	17	122300 P013	009	1S 1S
-															
047	Interconnection Star Pin									star pin for shield interconnection					1S
004	to be con to pin 047														1S
036	to be con to pin 047														1S
128	to be con to pin 047														1S
-															
001	to be con as part of FCR									Faraday Cage Ring (FCR)					1S



Procedure

Herschel

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 542 (of 666)

Connector: 312200 P004
Item: HSSVMCB2

Function / Bundle: SPIRE SVM CB2 SIH-XS-07

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M 24 08

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
002	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
003	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
005	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
006	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
007	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
008	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
014	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
015	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
024	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
025	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
035	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
082	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
093	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
094	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
104	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
105	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
114	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
115	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
121	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
122	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
123	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
124	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
125	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
126	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
127	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
-															
FCR	to be con to Inner Overall Shield (IOS)									Insulation required between IOS and OOS					1S
-															1S
CH	to be con to Outer Overall Shield (OOS)									Insulation required between IOS and OOS					1S
-															1S
-	2 pins are NC									The following Pins are NC :					

SPIRE_PFM_4_6_20060731_1529

Connector : 2312200P004 / Page 7 of 8

Bundle : SIH-SS-07

Doc. No: HP-2-ASED-PR-0087

Issue: 1

Date: 16.04.07

File: HP-2-ASED-PR-0087_1.doc

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 561 (of 666)

Connector: 312200 P001 Function / Bundle: SPIRE SVM CB2 SIH-XS-08 Conn.-Type: SCC340104401B06G2435SN
 Item: HSSVMCB2 Backshell: 380 FS 007 M 24 09

Pin	Signal Designation	Interface-Code			Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.										
029	SPIRE PSW (4) Ch41-44 . 42-	SPC.S	-	S155	TS2CC-28	42	155-2		HSDCU	17	122300 P010	011	1S	1S
004	SPIRE PSW (4) Ch41-44 . SHD42	SPC.S	-	S155	TS2CC-28	42	155-2	CS-S155-2	HSDCU	17	122300 P010	044	1S	1S
041	SPIRE PSW (4) Ch41-44 . 43+	SPC.S	-	S155	TS2CC-28	43	155-3		HSDCU	17	122300 P010	028	1S	1S
030	SPIRE PSW (4) Ch41-44 . 43-	SPC.S	-	S155	TS2CC-28	43	155-3		HSDCU	17	122300 P010	012	1S	1S
004	SPIRE PSW (4) Ch41-44 . SHD43	SPC.S	-	S155	TS2CC-28	43	155-3	CS-S155-3	HSDCU	17	122300 P010	045	1S	1S
053	SPIRE PSW (4) Ch41-44 . 44+	SPC.S	-	S155	TS2CC-28	44	155-4		HSDCU	17	122300 P010	029	1S	1S
052	SPIRE PSW (4) Ch41-44 . 44-	SPC.S	-	S155	TS2CC-28	44	155-4		HSDCU	17	122300 P010	013	1S	1S
004	SPIRE PSW (4) Ch41-44 . SHD44	SPC.S	-	S155	TS2CC-28	44	155-4	CS-S155-4	HSDCU	17	122300 P010	046	1S	1S
009	SPIRE PSW (4) Ch45-48 . 45+	SPC.S	-	S156	TS2CC-28	45	156-1		HSDCU	17	122300 P010	030	1S	1S
017	SPIRE PSW (4) Ch45-48 . 45-	SPC.S	-	S156	TS2CC-28	45	156-1		HSDCU	17	122300 P010	014	1S	1S
004	SPIRE PSW (4) Ch45-48 . SHD45	SPC.S	-	S156	TS2CC-28	45	156-1	CS-S156-1	HSDCU	17	122300 P010	047	1S	1S
018	SPIRE PSW (4) Ch45-48 . 46+	SPC.S	-	S156	TS2CC-28	46	156-2		HSDCU	17	122300 P010	031	1S	1S
028	SPIRE PSW (4) Ch45-48 . 46-	SPC.S	-	S156	TS2CC-28	46	156-2		HSDCU	17	122300 P010	015	1S	1S
004	SPIRE PSW (4) Ch45-48 . SHD46	SPC.S	-	S156	TS2CC-28	46	156-2	CS-S156-2	HSDCU	17	122300 P010	048	1S	1S
016	SPIRE PSW (4) Ch45-48 . 47+	SPC.S	-	S156	TS2CC-28	47	156-3		HSDCU	17	122300 P010	032	1S	1S
027	SPIRE PSW (4) Ch45-48 . 47-	SPC.S	-	S156	TS2CC-28	47	156-3		HSDCU	17	122300 P010	016	1S	1S
004	SPIRE PSW (4) Ch45-48 . SHD47	SPC.S	-	S156	TS2CC-28	47	156-3	CS-S156-3	HSDCU	17	122300 P010	049	1S	1S
040	SPIRE PSW (4) Ch45-48 . 48+	SPC.S	-	S156	TS2CC-28	48	156-4		HSDCU	17	122300 P010	033	1S	1S
039	SPIRE PSW (4) Ch45-48 . 48-	SPC.S	-	S156	TS2CC-28	48	156-4		HSDCU	17	122300 P010	017	1S	1S
004	SPIRE PSW (4) Ch45-48 . SHD48	SPC.S	-	S156	TS2CC-28	48	156-4	CS-S156-4	HSDCU	17	122300 P010	050	1S	1S
004	SPIRE PLW B08 GND WIRE A4	SPX.-	-	S484	010B0-30				HSDCU	17	122300 P010	009	1S	1S
047	Interconnection Star Pin	-	-					star pin for shield interconnection					1S	
036	to be con to pin 047												1S	
128	to be con to pin 047												1S	
004	to be con to pin 047												1S	

SPIRE_PFM_4_6_20080731_1520

Connector : 2312200P001 / Page 6 of 8

Bundle : SIH-SS-08



Procedure

Herschel

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 562 (of 666)

Connector: 312200 P001 **Function / Bundle:** SPIRE SVM CB2 SIH-XS-08 **Conn.-Type:** SCC340104401B06G2435SN
Item: HSSVMCB2 **Backshell:** 380 FS 007 M 24 09

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
FCR	to be con to Inner Overall Shield (IOS)									Insulation required between IOS and OOS					1S
-															
CH	to be con to Outer Overall Shield (OOS)									Insulation required between IOS and OOS					1S
-															
001	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
002	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
003	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
005	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
006	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
007	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
008	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
014	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
015	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
024	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
025	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
035	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
082	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
093	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
094	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
104	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
105	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
114	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
115	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
121	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
122	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
123	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
124	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
125	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
126	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
127	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
-										Faraday Cage Ring (FCR)					1S

SPIRE_PFM_4_6_20060731_1529

Connector : 2312200P001 / Page 7 of 8

Bundle : SIH-SS-08

Doc. No: HP-2-ASED-PR-0087

Issue: 1

Date: 16.04.07

File: HP-2-ASED-PR-0087_1.doc

Astrium GmbH	Pin Allocation List	Doc. No. : HP-2-ASED-IC-0016	
Project: HERSCHEL	(Harness)	Issue : 2.1	Date : 03.08.2006
		Sheet : 581 (of 666)	

Connector: 312200 P002
Item: HSSVMCB2

Function / Bundle: SPIRE SVM CB2 SIH-XS-09

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M 24 08

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
004	SPIRE PSW Ch41-44 . SHD42		SPC.S -		S137	TS2CC-28	42	137-2		CS-S137-2	HSDCU	17	122300 P007	044	1S 1S
-															
041	SPIRE PSW Ch41-44 . 43+		SPC.S -		S137	TS2CC-28	43	137-3			HSDCU	17	122300 P007	028	1S 1S
030	SPIRE PSW Ch41-44 . 43-		SPC.S -		S137	TS2CC-28	43	137-3			HSDCU	17	122300 P007	012	1S 1S
004	SPIRE PSW Ch41-44 . SHD43		SPC.S -		S137	TS2CC-28	43	137-3		CS-S137-3	HSDCU	17	122300 P007	045	1S 1S
-															
053	SPIRE PSW Ch41-44 . 44+		SPC.S -		S137	TS2CC-28	44	137-4			HSDCU	17	122300 P007	029	1S 1S
052	SPIRE PSW Ch41-44 . 44-		SPC.S -		S137	TS2CC-28	44	137-4			HSDCU	17	122300 P007	013	1S 1S
004	SPIRE PSW Ch41-44 . SHD44		SPC.S -		S137	TS2CC-28	44	137-4		CS-S137-4	HSDCU	17	122300 P007	046	1S 1S
-															
009	SPIRE PSW Ch45-48 . 45+		SPC.S -		S138	TS2CC-28	45	138-1			HSDCU	17	122300 P007	030	1S 1S
017	SPIRE PSW Ch45-48 . 45-		SPC.S -		S138	TS2CC-28	45	138-1			HSDCU	17	122300 P007	014	1S 1S
004	SPIRE PSW Ch45-48 . SHD45		SPC.S -		S138	TS2CC-28	45	138-1		CS-S138-1	HSDCU	17	122300 P007	047	1S 1S
-															
018	SPIRE PSW Ch45-48 . 46+		SPC.S -		S138	TS2CC-28	46	138-2			HSDCU	17	122300 P007	031	1S 1S
028	SPIRE PSW Ch45-48 . 46-		SPC.S -		S138	TS2CC-28	46	138-2			HSDCU	17	122300 P007	015	1S 1S
004	SPIRE PSW Ch45-48 . SHD46		SPC.S -		S138	TS2CC-28	46	138-2		CS-S138-2	HSDCU	17	122300 P007	048	1S 1S
-															
016	SPIRE PSW Ch45-48 . 47+		SPC.S -		S138	TS2CC-28	47	138-3			HSDCU	17	122300 P007	032	1S 1S
027	SPIRE PSW Ch45-48 . 47-		SPC.S -		S138	TS2CC-28	47	138-3			HSDCU	17	122300 P007	016	1S 1S
004	SPIRE PSW Ch45-48 . SHD47		SPC.S -		S138	TS2CC-28	47	138-3		CS-S138-3	HSDCU	17	122300 P007	049	1S 1S
-															
040	SPIRE PSW Ch45-48 . 48+		SPC.S -		S138	TS2CC-28	48	138-4			HSDCU	17	122300 P007	033	1S 1S
039	SPIRE PSW Ch45-48 . 48-		SPC.S -		S138	TS2CC-28	48	138-4			HSDCU	17	122300 P007	017	1S 1S
004	SPIRE PSW Ch45-48 . SHD48		SPC.S -		S138	TS2CC-28	48	138-4		CS-S138-4	HSDCU	17	122300 P007	050	1S 1S
-															
004	SPIRE PLW B09 GND WIRE A4		SPX.S -		S494	T01C0-26					HSDCU	17	122300 P007	009	1S 1S
-															
047	Interconnection Star Pin		-							star pin for shield interconnection					1S
004	to be con to pin 047														1S
036	to be con to pin 047														1S
128	to be con to pin 047														1S
-															
001	to be con as part of FCR									Faraday Cage Ring (FCR)					1S



Procedure

Herschel

Astrium GmbH Project: HERSCHEL	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016 Issue : 2.1 Date : 03.08.2006 Sheet : 582 (of 666)
---	--	--

Connector: 312200 P002 **Function / Bundle:** SPIRE SVM CB2 SIH-XS-09 **Conn.-Type:** SCC340104401B06G2435SN
Item: HSSVMCB2 **Backshell:** 380 FS 007 M 24 08

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
002	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
003	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
005	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
006	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
007	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
008	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
014	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
015	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
024	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
025	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
035	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
082	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
093	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
094	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
104	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
105	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
114	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
115	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
121	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
122	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
123	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
124	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
125	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
126	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
127	to be con as part of FCR								Faraday Cage Ring (FCR)					1S	
-														1S	
FCR	to be con to Inner Overall Shield (IOS)								Insulation required between IOS and OOS					1S	
-														1S	
CH	to be con to Outer Overall Shield (OOS)								Insulation required between IOS and OOS					1S	
-														1S	
-	2 pins are NC								The following Pins are NC :					1S	

SPIRE_PFM_4_8_20080731_1529

Connector : 2312200P002 / Page 7 of 8

Bundle : SIH-SS-09

Doc. No: HP-2-ASED-PR-0087
 Issue: 1
 Date: 16.04.07

File: HP-2-ASED-PR-0087_1.doc



Procedure

Herschel

Astrium GmbH	Pin Allocation List	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL	(Harness)	Issue : 2.1 Date : 03.08.2006
		Sheet : 599 (of 666)

Connector: 312300 P006
Item: HSSVMCB3

Function / Bundle: SPIRE SVM CB3 SIH-XS-10

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M24 05

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
111	SPIRE Spectr4%Temp (N) . I+	SCA.S	-		S242	TS4CC-28	14				HSFCU	17	122200 P025	004	1S 1S
112	SPIRE Spectr4%Temp (N) . I-	SCA.S	-		S242	TS4CC-28	14				HSFCU	17	122200 P025	011	1S 1S
120	SPIRE Spectr4%Temp (N) . V+	SCA.S	-		S242	TS4CC-28	14				HSFCU	17	122200 P025	005	1S 1S
128	SPIRE Spectr4%Temp (N) . V-	SCA.S	-		S242	TS4CC-28	14				HSFCU	17	122200 P025	012	1S 1S
121	SPIRE Spectr4%Temp (N) . SHD14	SCA.S	-		S242	TS4CC-28	14		CS-S242		HSFCU	17	122200 P025	013	1S 1S
091	SPIRE Spectr2%Temp (N) . I+	SCA.S	-		S243	TS4CC-28	15				HSFCU	17	122200 P025	006	1S 1S
080	SPIRE Spectr2%Temp (N) . I-	SCA.S	-		S243	TS4CC-28	15				HSFCU	17	122200 P025	014	1S 1S
092	SPIRE Spectr2%Temp (N) . V+	SCA.S	-		S243	TS4CC-28	15				HSFCU	17	122200 P025	007	1S 1S
081	SPIRE Spectr2%Temp (N) . V-	SCA.S	-		S243	TS4CC-28	15				HSFCU	17	122200 P025	015	1S 1S
093	SPIRE Spectr2%Temp (N) . SHD15	SCA.S	-		S243	TS4CC-28	15		CS-S243		HSFCU	17	122200 P025	013	1S 1S
001	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
002	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
003	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
004	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
007	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
008	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
014	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
015	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
025	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
036	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
047	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
059	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
070	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
082	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
094	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
127	to be con as part oof FCR								Faraday Cage Ring (FCR)						1S
-															
-															
FCR	to be con to Inner Overall Shield (IOS)								Insulation required between IOS and OOS						1S

SPIRE_PFM_4_8_20060731_1529

Connector : 2312300P006 / Page 4 of 6

Bundle : SIH-SS-10

Doc. No: HP-2-ASED-PR-0087

Issue: 1

Date: 16.04.07

File: HP-2-ASED-PR-0087_1.doc

Page 105

Astrium GmbH	Pin Allocation List	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL	(Harness)	Issue : 2.1 Date : 03.08.2006
		Sheet : 600 (of 666)

Connector: 312300 P006
Item: HSSVMCB3

Function / Bundle: SPIRE SVM CB3 SIH-XS-10

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M24 05

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
-															1S
CH	to be con to Outer Overall Shield (OOS)									Insulation required between IOS and OOS					1S
-															1S
-	17 pins are NC									The following Pins are NC :					
-										;009 ;016 ;017 ;026 ;027 ;028 ;037 ;038 ;040 ;048 ;049 ;060 ;069 ;071 ;072 ;083 ;095					

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 614 (of 666)

Connector: 312300 P004
Item: HSSVMCB3

Function / Bundle: SPIRE SVM CB3 SIH-XS-11

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M 24 09

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
117	SPIRE SMECLLtch#1Conf(N) . 1+	SME.S	-		S265	TS2CC-28	31				HSSVMCB3	27	312300 P001	012	1S 1S
118	SPIRE SMECLLtch#1Conf(N) . 1-	SME.S	-		S265	TS2CC-28	31				HSSVMCB3	27	312300 P001	004	1S 1S
109	SPIRE SMECLLtch#1Conf(N) . SHD31	SME.S	-		S265	TS2CC-28	31		CS-S265		HSSVMCB3	27	312300 P001	005	1S 1S
-															
111	SPIRE SMECLLtch#2Conf(N) . 2+	SME.S	-		S266	TS2CC-28	32				HSSVMCB3	27	312300 P001	013	1S 1S
119	SPIRE SMECLLtch#2Conf(N) . 2-	SME.S	-		S266	TS2CC-28	32				HSSVMCB3	27	312300 P001	008	1S 1S
110	SPIRE SMECLLtch#2Conf(N) . SHD32	SME.S	-		S266	TS2CC-28	32		CS-S266		HSSVMCB3	27	312300 P001	009	1S 1S
-															
027	Interconnection Star Pin								Star Pin for Shield Interconnection						1S
026	to be con to pin 027														1S
038	to be con to pin 027														1S
039	to be con to pin 027														1S
-															1S
030	Interconnection Star Pin								Star Pin for Shield Interconnection						1S
029	to be con to pin 030														1S
031	to be con to pin 030														1S
-															1S
045	Interconnection Star Pin								Star Pin for Shield Interconnection						1S
044	to be con to pin 045														1S
046	to be con to pin 045														1S
-															1S
073	Interconnection Star Pin								Star Pin for Shield Interconnection						1S
084	to be con to pin 073								shield interconnection						1S
-															1S
077	Interconnection Star Pin								Star Pin for Shield Interconnection						1S
076	to be con to pin 077														1S
-															1S
080	Interconnection Star Pin								Star Pin for Shield Interconnection						1S
078	to be con to pin 080														1S

SPIRE_PFM_4_8_20060731_1529

Connector : 2312300P004 / Page 5 of 8

Bundle : SIH-SS-11



Procedure

Herschel

Astrium GmbH Project: HERSCHEL	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016 Issue : 2.1 Date : 03.08.2006 Sheet : 615 (of 666)
---	---	--

Connector: 312300 P004 **Function / Bundle:** SPIRE SVM CB3 SIH-XS-11 **Conn.-Type:** SCC340104401B06G2435SN
Item: HSSVMCB3 **Backshell:** 380 FS 007 M 24 09

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.									
079	to be con to pin 080												1S
081	to be con to pin 080												1S
-													1S
109	Interconnection Star Pin						Star Pin for Shield Interconnection						1S
110	to be con to pin 109												1S
-													1S
128	Interconnection Star Pin						Star Pin for Shield Interconnection						1S
112	to be con to pin 128												1S
121	to be con to pin 128												1S
-													
001	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
006	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
008	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
035	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
047	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
070	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
082	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
094	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
104	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
107	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
109	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
110	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
122	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
123	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
124	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
125	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
126	to be con as part of FCR						Faraday Cage Ring (FCR)						1S
-													
FCR	to be con to Inner Overall Shield (IOS)						Insulation required between IOS and OOS						1S
-													

SPIRE_PFM_4_6_20060731_1529

Connector : 2312300P004 / Page 6 of 8

Bundle : SIH-SS-11

Doc. No: HP-2-ASED-PR-0087

Issue: 1

Date: 16.04.07

File: HP-2-ASED-PR-0087_1.doc

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 633 (of 666)

Connector: 312300 P005 Function / Bundle: SPIRE SVM CB3 SIH-XS-12 Conn.-Type: SCC340104401B06G2435SN
Item: HSSVMCB3 Backshell: 380 FS 007 M 24 06

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
-															
111	SPIRE Spectr4%Temp (R) . I+	SCA.S	-		S295	TS4CC-28	14				HSFCU	17	122200 P026	004	1S 1S
112	SPIRE Spectr4%Temp (R) . I-	SCA.S	-		S295	TS4CC-28	14				HSFCU	17	122200 P026	011	1S 1S
120	SPIRE Spectr4%Temp (R) . V+	SCA.S	-		S295	TS4CC-28	14				HSFCU	17	122200 P026	005	1S 1S
128	SPIRE Spectr4%Temp (R) . V-	SCA.S	-		S295	TS4CC-28	14				HSFCU	17	122200 P026	012	1S 1S
121	SPIRE Spectr4%Temp (R) . SHD14	SCA.S	-		S295	TS4CC-28	14		CS-S295		HSFCU	17	122200 P026	013	1S 1S
-															
091	SPIRE Spectr2%Temp (R) . I+	SCA.S	-		S296	TS4CC-28	15				HSFCU	17	122200 P026	006	1S 1S
080	SPIRE Spectr2%Temp (R) . I-	SCA.S	-		S296	TS4CC-28	15				HSFCU	17	122200 P026	014	1S 1S
092	SPIRE Spectr2%Temp (R) . V+	SCA.S	-		S296	TS4CC-28	15				HSFCU	17	122200 P026	007	1S 1S
081	SPIRE Spectr2%Temp (R) . V-	SCA.S	-		S296	TS4CC-28	15				HSFCU	17	122200 P026	015	1S 1S
093	SPIRE Spectr2%Temp (R) . SHD15	SCA.S	-		S296	TS4CC-28	15		CS-S296		HSFCU	17	122200 P026	013	1S 1S
-															
001	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
002	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
003	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
004	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
007	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
008	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
014	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
015	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
025	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
036	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
047	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
059	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
070	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
082	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
094	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
127	to be con as part of FCR								Faraday Cage Ring (FCR)						1S
-															
FCR	to be con to Inner Overall Shield (IOS)								Insulation required between IOS and OOS						1S
-															1S

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 634 (of 666)

Connector: 312300 P005
Item: HSSVMCB3

Function / Bundle: SPIRE SVM CB3 SIH-XS-12

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M 24 06

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
CH	to be con to Outer Overall Shield (OOS)									Insulation required between IOS and OOS					1S
-															1S
-	17 pins are NC									The following Pins are NC :					
-										;009 ;016 ;017 ;026 ;027 ;028 ;037 ;038 ;040 ;048 ;049 ;060 ;069 ;071 ;072 ;083 ;095					

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2.1 Date : 03.08.2006
		Sheet : 649 (of 666)

Connector: 312300 P003
Item: HSSVMCB3

Function / Bundle: SPIRE SVM CB3 SIH-XS-13

Conn.-Type: SCC340104401B06G2435SN
Backshell: 380 FS 007 M 24 06

Pin	Signal Designation	Interface-Code			Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.											
077	Interconnection Star Pin									Star Pin for Shield Interconnection					1S
076	to be con to pin 077														1S
-															1S
080	Interconnection Star Pin									Star Pin for Shield Interconnection					1S
029	to be con to pin 030														1S
-															1S
109	Interconnection Star Pin									Star Pin for Shield Interconnection					1S
-															1S
112	Interconnection Star Pin									Star Pin for Shield Interconnection					1S
-															1S
001	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
006	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
008	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
035	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
047	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
070	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
082	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
094	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
104	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
107	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
109	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
110	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
122	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
123	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
124	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
125	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
126	to be con as part of FCR									Faraday Cage Ring (FCR)					1S
-															1S
FCR	to be con to Inner Overall Shield (IOS)									Insulation required between IOS and OOS					1S

Astrium GmbH	Pin Allocation List (Harness)	Doc. No. : HP-2-ASED-IC-0016
Project: HERSCHEL		Issue : 2 ⁿ Date : 11.03.2005
		Sheet :

Connector: 312100 **JOAB**
Item: HSSVMCB1

Function / Bundle: Spire Bundle 02/04 Link A SIH-XS-02

Conn.-Type: **SCC 3401 002 018 DEMA 03 S NB18 FD**
Backshell: 507 T196M9

Pin	Signal Designation	Interface-Code			Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.								
001	SPIRE SSW PTC Ch's . 1+	S3D.2	-		S053	TS2CC-28		SVM-CB	312100	JOAB	01	
006	SPIRE SSW PTC Ch's . 1-	S3D.2	-		S053	TS2CC-28					06	
002	SPIRE SSW PTC Ch's . SHD43	S3D.2	-		S053	TS2CC-28	CS- shield interconnection				02	
002	to be con to pin 008											
003	SPIRE SSW PTC Ch's . 2+	S3D.2	-		S053	TS2CC-28					03	
007	SPIRE SSW PTC Ch's . 2-	S3D.2	-		S053	TS2CC-28					03	
008	SPIRE SSW PTC Ch's . SHD44	S3D.2	-		S053	TS2CC-28	CS-				03	
004	SPIRE SSW PTC Ch's . 3+	S3D.2	-		S053	TS2CC-28					04	
005	SPIRE SSW PTC Ch's . 3-	S3D.2	-		S053	TS2CC-28					04	
008	SPIRE SSW PTC Ch's . SHD45	S3D.2	-		S053	TS2CC-28	CS-	SVM-CB	312100	JOAB	03	
009	to be con to Inner Overall Shield (IOS)						Insulation required between IOS and OOS					
CH	to be con to Outer Overall Shield (OOS)						Insulation required between IOS and OOS					

Astrium GmbH		Pin Allocation List (Harness)					Doc. No. : HP-2-ASED-IC-0016					
Project: HERSCHEL							Issue : 2.0 Date : 11.03.2005					
Connector: 312100 J01B		Function / Bundle: Spire Bundle 02/04 Link B SIH-XS-04					Conn.-Type: SCC 340A 00204B DEKA 09 P NMBFO					
Item: HSSVMCB1							Backshell: 507 T 196 M 9					
Pin	Signal Designation	Interface-Code			Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	Changed
		Circuit	Signal	Pos.								
001	SPIRE SSW PTC Ch's . 1+	S3D.2	-		S053	TS2CC-28 49		SVM-CB	312100	J01B	01	
006	SPIRE SSW PTC Ch's . 1-	S3D.2	-		S053	TS2CC-28 49					06	
002	SPIRE SSW PTC Ch's . SHD49	S3D.2	-		S053	TS2CC-28 49	CS- shield interconnection				02	
002	to be con to pin 008											
003	SPIRE SSW PTC Ch's . 2+	S3D.2	-		S053	TS2CC-28 50					03	
007	SPIRE SSW PTC Ch's . 2-	S3D.2	-		S053	TS2CC-28 50					07	
008	SPIRE SSW PTC Ch's . SHD50	S3D.2	-		S053	TS2CC-28 50	CS+				08	
004	SPIRE SSW PTC Ch's . 3+	S3D.2	-		S053	TS2CC-28 51					04	
005	SPIRE SSW PTC Ch's . 3-	S3D.2	-		S053	TS2CC-28 51					05	
008	SPIRE SSW PTC Ch's . SHD51	S3D.2	-		S053	TS2CC-28 51	CS-	SVM-CB	312100	J01B	08	
009	to be con to Inner Overall Shield (IOS)						Insulation required between IOS and OOS					
CH	to be con to Outer Overall shield (OOS)						Insulation required between IOS and OOS					

8.3 PFM SVM SPIRE SIH Bundle Discharge prior to SIH Bundle Integration

SItem	SIcode	SCon	SConType	SIH-SS-	Mate Receptacle Shorting-plug	Bond to ESD Table GND	Discharged	Date:	Operator
SPIRE SVM CB2	312200	P006	SCC340104401B06G2435SN	01					
SPIRE SVM CB2	312200	P005	SCC340104401B06G2435SN	02					
SPIRE SVM CB1	312100	P004	SCC340104401B06G2435SN	03					
SPIRE SVM CB1	312100	P003	SCC340104401B06G2435SN	04					
SPIRE SVM CB1	312100	P002	SCC340104401B06G2435SN	05					
SPIRE SVM CB2	312200	P003	SCC340104401B06G2435SN	06					
SPIRE SVM CB2	312200	P004	SCC340104401B06G2435SN	07					
SPIRE SVM CB2	312200	P001	SCC340104401B06G2435SN	08					
SPIRE SVM CB2	312200	P002	SCC340104401B06G2435SN	09					
SPIRE SVM CB3	312300	P006	SCC340104401B06G2435SN	10					
SPIRE SVM CB3	312300	P004	SCC340104401B06G2435SN	11					
SPIRE SVM CB3	312300	P005	SCC340104401B06G2435SN	12					
SPIRE SVM CB3	312300	P003	SCC340104401B06G2435SN	13					
SPIRE SVM CB1	312100	J01A	SCC340100501BDEMA09PNMB	02_04					
Date:			Name :			Date:		PA:	

Table 8.3-1: PFM SVM SPIRE SIH Bundle Discharge prior to SIH Bundle Integration

8.4 PFM SVM SPIRE SIH Bundle Re-Integration after Rework

SI Code	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	SIH bundle pre-fixed on WU	SIH bundle pre-fixed on LP	SIH bundle pre-fixed on UCP	SIH bundle protection layers installed on WU	SIH bundle protection layers installed on LP	SIH bundle protection layers installed on UCP
312200	P006	SCC340104401B032435PN	01	HSDCU	122300	P027	DCMA-37S-NMB						
			01	HSDCU	122300	P028	DCMA-37S-NMB						
			01	HSDCU	122300	P031	DCMA-37P-NMB						
			01	HSDCU	122300	P032	DCMA-37P-NMB						
312200	P005	SCC340104401B06G2435SN	02	HSDCU	122300	P023	DCMA-37S-NMB						
			02	HSDCU	122300	P024	DCMA-37S-NMB						
			02	HSDCU	122300	P025	DCMA-37S-NMB						
			02	HSDCU	122300	P026	DCMA-37S-NMB						
312100	P004	SCC340104401B06G2435SN	03	HSDCU	122300	P029	DDMA-78P-NMB						
			03	HSDCU	122300	P030	DDMA-78P-NMB						
312100	P003	SCC340104401B06G2435SN	04	HSDCU	122300	P020	DDMA-50S-NMB						
			04	HSDCU	122300	P021	DDMA-50S-NMB						
			04	HSDCU	122300	P022	DDMA-50S-NMB						
312100	P002	SCC340104401B06G2435SN	05	HSDCU	122300	P017	DDMA-50S-NMB						
			05	HSDCU	122300	P018	DDMA-50S-NMB						
			05	HSDCU	122300	P019	DDMA-50S-NMB						

SI Code	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	SIH bundle pre-fixed on WU	SIH bundle pre-fixed on LP	SIH bundle pre-fixed on UCP	SIH bundle protection layers installed on WU	SIH bundle protection layers installed on LP	SIH bundle protection layers installed on UCP
312200	P003	SCC340104401B06G2435SN	06	HSDCU	122300	P014	DDMA-50S-NMB						
			06	HSDCU	122300	P015	DDMA-50S-NMB						
			06	HSDCU	122300	P016	DDMA-50S-NMB						
312200	P004	SCC340104401B06G2435SN	07	HSDCU	122300	P011	DDMA-50S-NMB						
			07	HSDCU	122300	P012	DDMA-50S-NMB						
			07	HSDCU	122300	P013	DDMA-50S-NMB						
312200	P001	SCC340104401B06G2435SN	08	HSDCU	122300	P008	DDMA-50S-NMB						
			08	HSDCU	122300	P009	DDMA-50S-NMB						
			08	HSDCU	122300	P010	DDMA-50S-NMB						
312200	P002	SCC340104401B06G2435SN	09	HSDCU	122300	P005	DDMA-50S-NMB						
			09	HSDCU	122300	P006	DDMA-50S-NMB						
			09	HSDCU	122300	P007	DDMA-50S-NMB						
312300	P006	SCC340104401B06G2435SN	10	HSFCU	122200	P011	DBMA-25P-NMB						
			10	HSFCU	122200	P023	DDMA-50P-NMB						
			10	HSFCU	122200	P025	DAMA-15P-NMB						



SI Code	SCon	SConType	SIH-SS-	TSItem	TICode	TCon	TConType	SIH bundle pre-fixed on WU	SIH bundle pre-fixed on LP	SIH bundle pre-fixed on UCP	SIH bundle protection layers installed on WU	SIH bundle protection layers installed on LP	SIH bundle protection layers installed on UCP
								[mΩ]		[mΩ]	[mΩ]	[mΩ]	[mΩ]
312300	P004	SCC340104401B06G2435SN	11	HSFCU	122200	P013	DEMA-09P-NMB						
			11	HSFCU	122200	P017	DCMA-37P-NMB						
			11	HSFCU	122200	P019	DCMA-37P-NMB						
			11	HSFCU	122200	P021	DAMA-15P-NMB						
			11	HSFCU	122200	P029	DCMA-37S-NMB						
312300	P005	SCC340104401B06G2435SN	12	HSFCU	122200	P012	DBMA-25P-NMB						
			12	HSFCU	122200	P024	DDMA-50P-NMB						
			12	HSFCU	122200	P026	DAMA-15P-NMB						
312300	P003	SCC340104401B06G2435SN	13	HSFCU	122200	P014	DEMA-09P-NMB						
			13	HSFCU	122200	P018	DCMA-37P-NMB						
			13	HSFCU	122200	P020	DCMA-37P-NMB						
			13	HSFCU	122200	P022	DAMA-15P-NMB						
			13	HSFCU	122200	P030	DCMA-37S-NMB						
			02	HSSVMCB1	312100	J01A	DCMA-09P-NMB						
			04	HSSVMCB1	312100	J01B	DCMA-09S-NMB						
Date:		Name:			Date:			PA:					

Table 8.4-1: PFM SVM SPIRE SIH Bundle Re-Integration after Rework



8.5 Reworked SIH Bundles and Integration Pictures (to be add after rework)

9 Summary Sheets

9.1 Procedure Variation Summary

	Test Change	Curr. No.:	
		Date	
		Page	of
Test designation	Test Procedure	Issue	Rev.
Test step changed	Reason for Change		
Prepared by:	Resp. Test Leader	Project Engineer	
PA/QA	Prime	Customer	

Table 9.1-1: Procedure Variation Sheet

9.2 Non Conformance Report (NCR) Summary

NCR - No.	NCR - Title	Date	Open Closed	PA sig.

Table 9.2-1: Non-Conformance Record Sheet

9.3 Sign-off Sheet

	Date	Signature
Manufacturing Operator		
Harness Responsible		
Instrument Responsible		
AIT Responsible		
PA Responsible		
SPIRE Instrument		
TSP-F Representative		
ESA Representative		

END OF DOCUMENT

	Name	Dep./Comp.		Name	Dep./Comp.
	Alberti von Mathias Dr.	ASG23		Schuler Günter	ASA42
	Baldock Richard	FAE12		Schweickert Gunn	ASG23
X	Barlage Bernhard	AED13	X	Sonn Nico	ASG51
	Baver Thomas	ASA42	X	Steininger Eric	AED32
	Brune Holger	ASA45	X	Stritter Rene	AED11
	Edelhoff Dirk	AED2		Suess Rudi	OTN/ASA44
	Fehringer Alexander	ASG13		Theunissen Martiin	DSSA
X	Fricke Wolfgana Dr.	AED 65		Wagner Klaus	ASG23
	Geiger Hermann	ASA42	X	Wietbrock Walter	AET12
X	Grasl Andreas	OTN/ASA44		Wöhler Hans	ASG23
X	Grasshoff Brigitte	AET12	X	Wössner Ulrich	ASE252
	Hamer Simon	Terma			
X	Hendry David	Terma			
	Henastler Reinhold	ASA42			
	Hinger Jürgen	ASG23			
X	Hohn Rüdiger	AED65			
	Hölzle Edda Dr.	AED32			
	Huber Johann	ASA42			
X	Hund Walter	ASE252			
X	Idler Siegmund	AED312			
X CP	Ivadv von András	FAE12			
	Jahn Gerd Dr.	ASG23			
X	Kalde Clemens	ASM2			
	Kameter Rudolf	OTN/ASA42			
	Kettner Bernhard	AET42			
X	Knoblauch August	AET32	X	Alcatel Alenia Space Cannes	TSP-F
X	Koelle Markus	ASA43		Alcatel Alenia Space Torino	AAS-I
X	Koppe Axel	AED312	X	ESA/ESTEC	ESA
X CP	Kroeker Jürgen	AED65			
X	La Gioia Valentina	Terma		Instruments:	
X	Lana Jürgen	ASE252		MPE (PACS)	MPE
X	Lanaenstein Rolf	AED15	X	RAL (SPIRE)	RAL
X CP	Lanfermann Michael	ASA41		SRON (HIFI)	SRON
	Martin Olivier	ASA43			
	Maukisch Jan	ASA43			
	Much Christoph	ASA43		Subcontractors:	
	Müller Jörg	ASA42		Alcatel Alenia Space Antwerp	ABSP
X CP	Müller Martin	ASA43		Austrian Aerospace	AAE
	Peltz Heinz-Willi	ASG13		Austrian Aerospace	AAEM
	Pietroboni Karin	AED65		BOC Edwards	BOCE
	Platzer Wilhelm	AED2		Dutch Space Solar Arravs	DSSA
	Reichle Konrad	ASA42		EADS Astrium Sub-Subsvst. &	ASSE
	Runge Axel	OTN/ASA44		EADS CASA Espacio	CASA
	Schink Dietmar	AED32		EADS CASA Espacio	ECAS
	Schlosser Christian	OTN/ASA44		European Test Services	ETS
	Schmidt Rudolf	FAE12		Patria New Technologies Ov	PANT
X	Schmidt Thomas	AED15		SENER Ingeniería SA	SEN