

EADS Astrium

EPLM SPIRE SIH ICD PFM

Herschel

Title: EPLM SPIRE SIH ICD  
PFM

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## 1 Scope

This Interface Control Document (ICD) describes the electrical interfaces of the HERSCHEL EPLM PACS SIH PFM Harness Pin Allocation.

It has to be used as sub ICD of the overall HERSCHEL EPLM electrical ICD HP-2-ASED-IC-0001.

For information management a database (ACCESS based) called CAIE (**C**omputer **A**ided **I**nterface **E**ngineering) will be used. The HEPLM CAIE Data Base contents provides all the necessary information for supporting the automated verification of the electrical interfaces with (IDAS) an **I**ntegrated **D**ata **A**cquisition **S**ystem

This document summarised the Harness Pin Allocation for PACS EPLM Scientific Instrument Harness PFM.

All necessary pin to pin connections are described in the Data Base extract in chapter 3.

## 2 Documents

### 2.1 Applicable Documents

- [AD1] Electrical Interface Control Document EPLM PLM, HP-2-ASED-IC-0001 issue 4
- [AD2] Herschel/Planck Instrument Interface Document, Part A, SCI-PT-IIDA-04624
- [AD3] Herschel/Planck Instrument Interface Document, Part B; Instrument "SPIRE", SCI-PT-IIDB/SPIRE-02124, Issue 3.2, 01.03.04
- [AD4] Cryo Harness Interconnection diagram - SIH SPIRE, HP-2-ASED-ID-0091; Issue B

### 2.2 Reference Documents

- [RD1] Herschel-Planck EMC Analyses, H-P-1-ASPI-AN-0202
- [RD2] HERSCHEL PLM Grounding Scheme", HP-2-ASED-DW-0001
- [RD3] Herschel PLM EICD, HP-2-ASPI-ID-062
- [RD4] Cryo Harness Description, HP-2-ASED-TN-0103
- [RD5] CRYO-HARNESS BRANCH CHARACTERISTICS, HP-2-ASED-TN-0085

### 3 EPLM SPIRE SIH PFM Pin Allocation List Harness

# Pin Allocation List (Harness)

**Connector:** 121220 P09

**Item:** HSJFS

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SSW/SLW Bias Prime (C01)

**Location:** 76 / on SPIRE JFET small

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PTC TC Bias A . +ve	S3A.-	-	S009	022BS-38	9		200 Ohm/3.2E-08 A	CVVUCR	33	211121 J32	007	
020	SPIRE PTC TC Bias A . -ve	S3A.-	-	S009	022BS-38	9		Cable S009 inner Shd con to GND Wire A3	CVVUCR	33	211121 J32	014	
002	SPIRE PTC TC Bias A . SHD01	S3A.-	-	S009	022BS-38	9		Cable S009 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J32	046	
-	Cable S009 outer Shield												
021	SPIRE PTC JFETV Bias A . +ve	S3C.-	-	S010	022BS-38	10		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J32	024	
003	SPIRE PTC JFETV Bias A . -ve	S3C.-	-	S010	022BS-38	10		Cable S010 inner Shd con to GND Wire A3	CVVUCR	33	211121 J32	035	
002	SPIRE PTC JFETV Bias A . SHD02	S3C.-	-	S010	022BS-38	10		Cable S010 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J32	046	
-	Cable S010 outer Shield												
002	SPIRE PTC GND WIRE A3 . GND A3	SSX.-	-	S403	010B0-30			GND Wire A3 con to Cable 009/010	CVVUCR	33	211121 J32	046	
-													
022	SPIRE SLW Bias A1 . +ve	SSD.-	-	S025	022SS-38	25		200 Ohm/9.6E-08 A	CVVUCR	33	211121 J32	121	
004	SPIRE SLW Bias A1 . -ve	SSD.-	-	S025	022SS-38	25		Cable S025 inner Shd con to GND Wire B3	CVVUCR	33	211121 J32	114	
006	SPIRE SLW Bias A1 . SHD03	SSD.-	-	S025	022SS-38	25		Cable S025 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J32	104	
-	Cable S025 outer Shield												
005	SPIRE SLW Bias A2 . +ve	SSD.-	-	S026	022SS-38	26		200 Ohm/9.6E-08 A	CVVUCR	33	211121 J32	102	
024	SPIRE SLW Bias A2 . -ve	SSD.-	-	S026	022SS-38	26		Cable S026 inner Shd also con to GND Wire B3	CVVUCR	33	211121 J32	101	
023	SPIRE SLW Bias A2 . SHD04	SSD.-	-	S026	022SS-38	26		Cable S026 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J32	104	
-	Cable S026 outer Shield												
006	SPIRE SLW GND WIRE B3	SSX.-	-	S405	010B0-30			GND Wire B3 to cable 25/26/11/12	CVVUCR	33	211121 J32	104	
025	SPIRE SLW JFETV A1 . +ve	SSF.-	-	S011	022BS-38	11		100 Ohm/2.5E-03 A	CVVUCR	33	211121 J32	092	
007	SPIRE SLW JFETV A1 . -ve	SSF.-	-	S011	022BS-38	11		Cable S011 inner Shd con to GND Wire B3	CVVUCR	33	211121 J32	091	
006	SPIRE SLW JFETV A1 . SHD05	SSF.-	-	S011	022BS-38	11			CVVUCR	33	211121 J32	104	

to inner shield of S012

# Pin Allocation List (Harness)

Connector: 121220 P09

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SSW/SLW Bias Prime (C01)

Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
-	Cable S011 outer Shield							Cable S011 outer Shd con to CH (Faraday)					
008	SPIRE SLW JFETV A2 . +ve	SSF.-	-	S012	022BS-38	12		100 Ohm/2.5E-03 A	CVVUCR	33	211121 J32	103	
027	SPIRE SLW JFETV A2 . -ve	SSF.-	-	S012	022BS-38	12		Cable S012 inner Shd also con to GND Wire B3	CVVUCR	33	211121 J32	113	
026	SPIRE SLW JFETV A2 . SHD06	SSF.-	-	S012	022BS-38	12			CVVUCR	33	211121 J32	104	
-	Cable S012 outer Shield							Cable S012 outer Shd con to CH (Faraday)					
028	SPIRE SSW Bias A1 . +ve	SSC.-	-	S029	022SS-38	29		200 Ohm/1.2E-03 A	CVVUCR	33	211121 J32	090	
010	SPIRE SSW Bias A1 . -ve	SSC.-	-	S029	022SS-38	29		Cable S029 inner Shd also con to GND Wire C3	CVVUCR	33	211121 J32	079	
009	SPIRE SSW Bias A1 . SHD07	SSC.-	-	S029	022SS-38	29			CVVUCR	33	211121 J32	093	
-	Cable S029 outer Shield							Cable S029 outer Shd con to CH (Faraday)					
011	SPIRE SSW JFETV A1 . +ve	SSE.-	-	S016	022BS-38	16		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J32	068	
030	SPIRE SSW JFETV A1 . -ve	SSE.-	-	S016	022BS-38	16		Cable S016 inner Shd also con to GND Wire C3	CVVUCR	33	211121 J32	057	
029	SPIRE SSW JFETV A1 . SHD08	SSE.-	-	S016	022BS-38	16			CVVUCR	33	211121 J32	093	
-	Cable S016 outer Shield							Cable S016 outer Shd con to CH (Faraday)					
012	SPIRE SSW GND Wire C3	SSX.-	-	S406	010B0-30			GND Wire C3 con to cable 29/16/31/17	CVVUCR	33	211121 J32	093	
013	SPIRE SSW Bias A2 . +ve	SSC.-	-	S031	022SS-38	31		200 Ohm/1.2E-03 A	CVVUCR	33	211121 J32	069	
032	SPIRE SSW Bias A2 . -ve	SSC.-	-	S031	022SS-38	31		Cable S031 inner Shd also con to GND Wire C3	CVVUCR	33	211121 J32	080	
031	SPIRE SSW Bias A2 . SHD09	SSC.-	-	S031	022SS-38	31			CVVUCR	33	211121 J32	093	
-	Cable S031 outer Shield							Cable S031 outer Shd con to CH (Faraday)					
033	SPIRE SSW JFETV A2 . +ve	SSE.-	-	S017	022BS-38	17		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J32	070	
015	SPIRE SSW JFETV A2 . -ve	SSE.-	-	S017	022BS-38	17		Cable S017 inner Shd also con to GND Wire C3	CVVUCR	33	211121 J32	081	
014	SPIRE SSW JFETV A2 . SHD10	SSE.-	-	S017	022BS-38	17			CVVUCR	33	211121 J32	093	



# Pin Allocation List (Harness)

Connector: 121220 P09

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SSW/SLW Bias Prime (C01)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-37P-6C3-.630  
Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
-	Cable S017 outer Shield						Cable S017 outer Shd con to CH (Faraday)					
017	SPIRE SLW JFET Htr A . +ve	SSH.- -	S033	021BS-38	33		200 Ohm/3.3E-04 A	CVVUCR	33	211121 J32	023	
036	SPIRE SLW JFET Htr A . -ve	SSH.- -	S033	021BS-38	33		Cable 033 Shd daisy ch to Cable Shd 34 = GND Wire D3	CVVUCR	33	211121 J32	034	
018	SPIRE SLW JFET Htr A . SHD13	SSH.- -	S033	021BS-38	33			CVVUCR	33	211121 J32	022	
037	SPIRE SSW JFET Htr A . +ve	SSG.- -	S034	021BS-38	34		200 Ohm/6.7E-03 A	CVVUCR	33	211121 J32	033	
019	SPIRE SSW JFET Htr A . -ve	SSG.- -	S034	021BS-38	34			CVVUCR	33	211121 J32	045	
018	SPIRE SSW JFET Htr A . SHD12	SSG.- -	S034	021BS-38	34		Cable 034 Shd daisy ch to Cable 33 Shd	CVVUCR	33	211121 J32	022	
016	SPIRE PTC JFET Htr A . +ve	S3B.- -	S019	021BS-38	19		200 Ohm/3.3E-03 A	CVVUCR	33	211121 J32	044	
035	SPIRE PTC JFET Htr A . -ve	S3B.- -	S019	021BS-38	19			CVVUCR	33	211121 J32	056	
NC	SPIRE PTC JFET Htr A . SHD11	S3B.- -	S019	021BS-38	19		Cable 019 Shd not con at FPU	CVVUCR	33	211121 J32	022	
18	SPIRE S_Heater GND D3	SSX.- -	S410	010B0-30			No Wire in Cold JFS , routed via Cable S019,33,34 Shds to CVV Fth	CVVUCR	33	211121 J32	022	
CH	Outer Shields=Faraday Shds						Faraday Shd con to Backshell ECR39 tbc					
-	Isolation						Harness Branch to be isolated from S/C Struct					





# Pin Allocation List (Harness)

**Connector:** 121220 P10

**Item:** HSJFS

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SSW/SLW Bias Red (C01)

**Location:** 76 / on SPIRE JFET small

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PTC TC Bias B. +ve	S3A.-	-	S020	022BS-38	20		200 Ohm/3.2E-08 A	CVVUCR	33	211121 J32	001	
020	SPIRE PTC TC Bias B. -ve	S3A.-	-	S020	022BS-38	20		Cable S020 inner Shd con to GND Wire A4	CVVUCR	33	211121 J32	008	
002	SPIRE PTC TC Bias B. SHD01	S3A.-	-	S020	022BS-38	20			CVVUCR	33	211121 J32	004	
-	Cable S020 outer Shield							Cable S020 outer Shd con to CH (Faraday)					
021	SPIRE PTC JFETV Bias B. +ve	S3C.-	-	S022	022BS-38	22		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J32	003	
003	SPIRE PTC JFETV Bias B. -ve	S3C.-	-	S022	022BS-38	22		Cable S022 inner Shd con to GND Wire A4	CVVUCR	33	211121 J32	002	
002	SPIRE PTC JFETV Bias B. SHD02	S3C.-	-	S022	022BS-38	22			CVVUCR	33	211121 J32	004	
-	Cable S022 outer Shield							Cable S022 outer Shd con to CH (Faraday)					
002	SPIRE PTC GND Wire A4	SSX.-	-	S404	010B0-30			GND Wire A4 to Cable 020/022	CVVUCR	33	211121 J32	004	
-													
022	SPIRE SLW Bias B1. +ve	SSD.-	-	S038	022SS-38	38		200 Ohm/9.6E-08 A	CVVUCR	33	211121 J32	013	
004	SPIRE SLW Bias B1. -ve	SSD.-	-	S038	022SS-38	38		Cable S038 inner Shd con to GND Wire B4	CVVUCR	33	211121 J32	012	
006	SPIRE SLW Bias B1. SHD03	SSD.-	-	S038	022SS-38	38			CVVUCR	33	211121 J32	032	
-	Cable S038 outer Shield							Cable S038 outer Shd con to CH (Faraday)					
005	SPIRE SLW Bias B2. +ve	SSD.-	-	S039	022SS-38	39		200 Ohm/9.6E-08 A	CVVUCR	33	211121 J32	021	
024	SPIRE SLW Bias B2. -ve	SSD.-	-	S039	022SS-38	39		Cable S039 inner Shd also con to GND Wire B4	CVVUCR	33	211121 J32	020	
023	SPIRE SLW Bias B2. SHD04	SSD.-	-	S039	022SS-38	39			CVVUCR	33	211121 J32	032	
-	Cable S039 outer Shield							Cable S039 outer Shd con to CH (Faraday)					
006	SPIRE SLW GND Wire B4	SSX.-	-	S407	010B0-30			GND Wire B4 to cable 38/39/28/23	CVVUCR	33	211121 J32	032	
-													
025	SPIRE SLW JFETV B1. +ve	SSF.-	-	S028	022BS-38	28		100 Ohm/2.5E-03 A	CVVUCR	33	211121 J32	031	
007	SPIRE SLW JFETV B1. -ve	SSF.-	-	S028	022BS-38	28		Cable S028 inner Shd con to GND Wire B4	CVVUCR	33	211121 J32	043	
006	SPIRE SLW JFETV B1. SHD05	SSF.-	-	S028	022BS-38	28			CVVUCR	33	211121 J32	032	
-	Cable S028 outer Shield							Cable S028 outer Shd con to CH (Faraday)					

# Pin Allocation List (Harness)

**Connector:** 121220 P10

**Item:** HSJFS

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SSW/SLW Bias Red (C01)

**Location:** 76 / on SPIRE JFET small

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
007	SPIRE SLW JFETV B2 . +ve	SSF.-	-	S023	022BS-38	23		100 Ohm/2.5E-03 A	CVUUCR	33	211121 J32	042	
027	SPIRE SLW JFETV B2 . -ve	SSF.-	-	S023	022BS-38	23		Cable S023 inner Shd also con to GND Wire B4	CVUUCR	33	211121 J32	054	
006	SPIRE SLW JFETV B2 . SHD06	SSF.-	-	S023	022BS-38	23		Cable S023 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J32	032	
-	Cable S023 outer Shield												
028	SPIRE SSW Bias B1 . +ve	SSC.-	-	S042	022SS-38	42		200 Ohm/1.2E-03 A	CVUUCR	33	211121 J32	010	
010	SPIRE SSW Bias B1 . -ve	SSC.-	-	S042	022SS-38	42		Cable S042 inner Shd also con to GND Wire C4	CVUUCR	33	211121 J32	011	
009	SPIRE SSW Bias B1 . SHD07	SSC.-	-	S042	022SS-38	42		Cable S042 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J32	040	
-	Cable S042 outer Shield												
011	SPIRE SSW JFETV B1 . +ve	SSE.-	-	S035	022BS-38	35		100 Ohm/5.0E-03 A	CVUUCR	33	211121 J32	019	
030	SPIRE SSW JFETV B1 . -ve	SSE.-	-	S035	022BS-38	35		Cable S035 inner Shd also con to GND Wire C4	CVUUCR	33	211121 J32	029	
029	SPIRE SSW JFETV B1 . SHD08	SSE.-	-	S035	022BS-38	35		Cable S035 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J32	040	
-	Cable S035 outer Shield												
012	SPIRE SSW GND Wire C4	SSX.-	-	S408	010B0-30			GND Wire C4 to cable 42/35/44/36	CVUUCR	33	211121 J32	040	
013	SPIRE SSW Bias B2 . +ve	SSC.-	-	S044	022SS-38	44		200 Ohm/1.2E-03 A	CVUUCR	33	211121 J32	041	
032	SPIRE SSW Bias B2 . -ve	SSC.-	-	S044	022SS-38	44		Cable S044 inner Shd also con to GND Wire C4	CVUUCR	33	211121 J32	030	
031	SPIRE SSW Bias B2 . SHD09	SSC.-	-	S044	022SS-38	44		Cable S044 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J32	040	
-	Cable S044 outer Shield												
033	SPIRE SSW JFETV B2 . +ve	SSE.-	-	S036	022BS-38	36		100 Ohm/5.0E-03 A	CVUUCR	33	211121 J32	053	
015	SPIRE SSW JFETV B2 . -ve	SSE.-	-	S036	022BS-38	36		Cable S036 inner Shd also con to GND Wire C4	CVUUCR	33	211121 J32	052	
014	SPIRE SSW JFETV B2 . SHD10	SSE.-	-	S036	022BS-38	36		Cable S036 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J32	040	
-	Cable S036 outer Shield												

# Pin Allocation List (Harness)

**Connector:** 121220 P10

**Item:** HSJFS

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SSW/SLW Bias Red (C01)  
**Location:** 76 / on SPIRE JFET small

**Conn.-Type:** MWDM2L-37P-6C3-.630  
**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
017	SPIRE SLW JFET Htr B . +ve	SSH.-	-	S046	021BS-38	46		200 Ohm/3.3E-04 A	CVVUCR	33	211121 J32	018	
036	SPIRE SLW JFET Htr B . -ve	SSH.-	-	S046	021BS-38	46		Cable 047 Shd daisy ch to Cable 47Shd = GND wire D4	CVVUCR	33	211121 J32	028	
018	SPIRE SLW JFET Htr B . SHD13	SSH.-	-	S046	021BS-38	46			CVVUCR	33	211121 J32	039	
037	SPIRE SSW JFET Htr B . +ve	SSG.-	-	S047	021BS-38	47		200 Ohm/6.7E-03 A	CVVUCR	33	211121 J32	009	
019	SPIRE SSW JFET Htr B . -ve	SSG.-	-	S047	021BS-38	47		Cable 047 Shd daisy ch to Pin 18 at FPU side	CVVUCR	33	211121 J32	017	
018	SPIRE SSW JFET Htr B . SHD12	SSG.-	-	S047	021BS-38	47			CVVUCR	33	211121 J32	039	
016	SPIRE PTC JFET Htr B . +ve	S3B.-	-	S040	021BS-38	40		200 Ohm/3.3E-03 A	CVVUCR	33	211121 J32	016	
035	SPIRE PTC JFET Htr B . -ve	S3B.-	-	S040	021BS-38	40		Cable 040 Shd not con at FPU	CVVUCR	33	211121 J32	027	
NC	SPIRE PTC JFET Htr B . SHD11	S3B.-	-	S040	021BS-38	40			CVVUCR	33	211121 J32	039	
018	SPIRE S_Heater GND D4	SSX.-	-	S409	010B0-30			GND Wire D4 only at CWV side, at FPU side = Shd	CVVUCR	33	211121 J32	039	
CH	Outer Shields=Faraday Shds							Faraday Shd con to Backshell ECR0039 tbc					
-	Isolation							Harness Branch to be isolated from S/C struct.					







# Pin Allocation List (Harness)

Connector: 121220 P06

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SLW Bolom. Ch 13-24 HSJFS (C01)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3--630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
001	SPIRE SLW Ch13-16 . 13+	SSB.-	-	S004	12AXD-38	4		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	086	
014	SPIRE SLW Ch13-16 . 13-	SSB.-	-	S004	12AXD-38	4		SLW-A2	CVVUCR	33	211121 J32	087	
013	SPIRE SLW Ch13-16 . 13grnd	SSB.-	-	S004	12AXD-38	1		12 AX gnd 1-1 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
002	SPIRE SLW Ch13-16 . 14+	SSB.-	-	S004	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	097	
015	SPIRE SLW Ch13-16 . 14-	SSB.-	-	S004	12AXD-38	1		SLW-C3	CVVUCR	33	211121 J32	098	
013	SPIRE SLW Ch13-16 . 14grnd	SSB.-	-	S004	12AXD-38	1		12 AX gnd 1-2 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
003	SPIRE SLW Ch13-16 . 15+	SSB.-	-	S004	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	108	
016	SPIRE SLW Ch13-16 . 15-	SSB.-	-	S004	12AXD-38	1		SLW-D3	CVVUCR	33	211121 J32	109	
013	SPIRE SLW Ch13-16 . 15grnd	SSB.-	-	S004	12AXD-38	1		12 AX gnd 1-3 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
004	SPIRE SLW Ch13-16 . 16+	SSB.-	-	S004	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	116	
017	SPIRE SLW Ch13-16 . 16-	SSB.-	-	S004	12AXD-38	1		SLW-B3	CVVUCR	33	211121 J32	117	
013	SPIRE SLW Ch13-16 . 16grnd	SSB.-	-	S004	12AXD-38	1		12 AX gnd 1-4 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
013	SPIRE SLW Ch13-16 . SHD01	SSB.-	-	S004	12AXD-38	4		Cable S004 inner Shd daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
CH	S004 12 AXD Outer Shield							Cable S004 outer Shd con to CH (Faraday)					
005	SPIRE SLW Ch17-20 . 17+	SSB.-	-	S005	12AXD-38	5		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	055	
018	SPIRE SLW Ch17-20 . 17-	SSB.-	-	S005	12AXD-38	2		SLW-E3	CVVUCR	33	211121 J32	066	
013	SPIRE SLW Ch17-20 . 17grnd	SSB.-	-	S005	12AXD-38	2		12 AX gnd 2-1 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
006	SPIRE SLW Ch17-20 . 18+	SSB.-	-	S005	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	067	
019	SPIRE SLW Ch17-20 . 18-	SSB.-	-	S005	12AXD-38	2		SLW-C4	CVVUCR	33	211121 J32	078	
013	SPIRE SLW Ch17-20 . 18grnd	SSB.-	-	S005	12AXD-38	2		12 AX gnd 2-2 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
020	SPIRE SLW Ch17-20 . 19+	SSB.-	-	S005	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	076	
007	SPIRE SLW Ch17-20 . 19-	SSB.-	-	S005	12AXD-38	2		SLW-DK2	CVVUCR	33	211121 J32	077	
013	SPIRE SLW Ch17-20 . 19grnd	SSB.-	-	S005	12AXD-38	2		12 AX gnd 2-3 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	

# Pin Allocation List (Harness)

**Connector:** 121220 P06  
**Item:** HSJFS  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SLW Bolom. Ch 13-24 HSJFS (C01)  
**Location:** 76 / on SPIRE JFET small

**Conn.-Type:** MWDM2L-25S-6C3-.630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE SLW Ch17-20 . 20+	SSB.-	-	S005	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	088	
008	SPIRE SLW Ch17-20 . 20-	SSB.-	-	S005	12AXD-38	2		SLW-D4	CVVUCR	33	211121 J32	089	
013	SPIRE SLW Ch17-20 . 20gnd	SSB.-	-	S005	12AXD-38	2		12 AX gnd 2-4 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
013	SPIRE SLW Ch17-20 . SHD02	SSB.-	-	S005	12AXD-38	5		Cable S005 inner Shd daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
CH	S005 12 AXD Outer Shield							Cable S005 outer Shd con to CH (Faraday)					
022	SPIRE SLW Ch21-24 . 21+	SSB.-	-	S006	12AXD-38	6		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	099	
009	SPIRE SLW Ch21-24 . 21-	SSB.-	-	S006	12AXD-38	3		SLW-C5	CVVUCR	33	211121 J32	100	
013	SPIRE SLW Ch21-24 . 21gnd	SSB.-	-	S006	12AXD-38	3		12 AX gnd 3-1 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
023	SPIRE SLW Ch21-24 . 22+	SSB.-	-	S006	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	110	
010	SPIRE SLW Ch21-24 . 22-	SSB.-	-	S006	12AXD-38	3		SLW-B4	CVVUCR	33	211121 J32	111	
013	SPIRE SLW Ch21-24 . 22gnd	SSB.-	-	S006	12AXD-38	3		12 AX gnd 3-2 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
024	SPIRE SLW Ch21-24 . 23+	SSB.-	-	S006	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	118	
011	SPIRE SLW Ch21-24 . 23-	SSB.-	-	S006	12AXD-38	3		SLW-A3	CVVUCR	33	211121 J32	119	
013	SPIRE SLW Ch21-24 . 23gnd	SSB.-	-	S006	12AXD-38	3		12 AX gnd 3-3 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
025	SPIRE SLW Ch21-24 . 24+	SSB.-	-	S006	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	112	
012	SPIRE SLW Ch21-24 . 24-	SSB.-	-	S006	12AXD-38	3		SLW-T2	CVVUCR	33	211121 J32	120	
013	SPIRE SLW Ch21-24 . 24gnd	SSB.-	-	S006	12AXD-38	3		12 AX gnd 3-4 daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
013	SPIRE SLW Ch21-24 . SHD03	SSB.-	-	S006	12AXD-38	6		Cable S006 inner Shd daisy ch to Pin 13 at JFS (A2)	CVVUCR	33	211121 J32	122	
CH	S006 12 AXD Outer Shield							Cable S006 outer Shd con to CH (Faraday)					
013	SPIRE SLW GND Wire A2	SSX.-	-	S402	010B0-30			Not a wire in cold !!! Routed via Cable SHDs	CVVUCR	33	211121 J32	122	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016

Issue: 1.0 Date: 21.04.2004

Sheet: PAL-3 (of 3)

Connector: 121220 P06

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SLW Bolom. Ch 13-24 HSJFS (C01)

Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
CH	Outer Shields=Faraday Shds					Faraday Shds con to Backshell- ECR 0039 tbc					
-	Isolation					Harness Branch to be isolated from S/C Struct.					
-											





# Pin Allocation List (Harness)

Connector: 121220 P05  
Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SLW Bolom. Ch 1-12 HSJFS (C01)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.												
001	SPIRE SLW Ch01-04 . 1+	SSB.-	-	S001	12AXD-38	1				200 Ohm/1.0E-09 A	CWUCR	33	211121 J32	026	
014	SPIRE SLW Ch01-04 . 1-	SSB.-	-	S001	12AXD-38	1				SLW-R1	CWUCR	33	211121 J32	037	
013	SPIRE SLW Ch01-04 . 1grnd	SSB.-	-	S001	12AXD-38	1				12 AX gnd 1-1 daisy ch to Pin 13 at JFS (A1)	CWUCR	33	211121 J32	115	
002	SPIRE SLW Ch01-04 . 2+	SSB.-	-	S001	12AXD-38	1				200 Ohm/1.0E-09 A	CWUCR	33	211121 J32	038	
015	SPIRE SLW Ch01-04 . 2-	SSB.-	-	S001	12AXD-38	1				SLW-T1	CWUCR	33	211121 J32	049	
013	SPIRE SLW Ch01-04 . 2grnd	SSB.-	-	S001	12AXD-38	1				12 AX gnd 1-2 daisy ch to Pin 13 at JFS (A1)	CWUCR	33	211121 J32	115	
003	SPIRE SLW Ch01-04 . 3+	SSB.-	-	S001	12AXD-38	1				200 Ohm/1.0E-09 A	CWUCR	33	211121 J32	048	
016	SPIRE SLW Ch01-04 . 3-	SSB.-	-	S001	12AXD-38	1				SLW-C1	CWUCR	33	211121 J32	060	
013	SPIRE SLW Ch01-04 . 3grnd	SSB.-	-	S001	12AXD-38	1				12 AX gnd 1-3 daisy ch to Pin 13 at JFS (A1)	CWUCR	33	211121 J32	115	
004	SPIRE SLW Ch01-04 . 4+	SSB.-	-	S001	12AXD-38	1				200 Ohm/1.0E-09 A	CWUCR	33	211121 J32	059	
017	SPIRE SLW Ch01-04 . 4-	SSB.-	-	S001	12AXD-38	1				SLW-DK1	CWUCR	33	211121 J32	071	
013	SPIRE SLW Ch01-04 . 4grnd	SSB.-	-	S001	12AXD-38	1				12 AX gnd 1-4 daisy ch to Pin 13 at FFS (A1)	CWUCR	33	211121 J32	115	
013	SPIRE SLW Ch01-04 . SHD01	SSB.-	-	S001	12AXD-38	1				Cable S001 inner Shd daisy ch to Pin 13 at JFS (A1)	CWUCR	33	211121 J32	115	
CH	S001 12 AXD Outer Shield									Cable S001 outer Shd con to CH (Faraday)					
005	SPIRE SLW Ch05-08 . 5+	SSB.-	-	S002	12AXD-38	2				200 Ohm/1.0E-09 A	CWUCR	33	211121 J32	050	
018	SPIRE SLW Ch05-08 . 5-	SSB.-	-	S002	12AXD-38	2				SLW-B1	CWUCR	33	211121 J32	061	
013	SPIRE SLW Ch05-08 . 5grnd	SSB.-	-	S002	12AXD-38	2				12 AX gnd 2-1 daisy ch to Pin 13 at JFS (A1)	CWUCR	33	211121 J32	115	
006	SPIRE SLW Ch05-08 . 6+	SSB.-	-	S002	12AXD-38	2				200 Ohm/1.0E-09 A	CWUCR	33	211121 J32	062	
019	SPIRE SLW Ch05-08 . 6-	SSB.-	-	S002	12AXD-38	2				SLW-D1	CWUCR	33	211121 J32	051	
013	SPIRE SLW Ch05-08 . 6grnd	SSB.-	-	S002	12AXD-38	2				12 AX gnd 2-2 daisy ch to Pin 13 at JFS (A1)	CWUCR	33	211121 J32	115	
020	SPIRE SLW Ch05-08 . 7+	SSB.-	-	S002	12AXD-38	2				200 Ohm/1.0E-09 A	CWUCR	33	211121 J32	063	
007	SPIRE SLW Ch05-08 . 7-	SSB.-	-	S002	12AXD-38	2				SLW-E1	CWUCR	33	211121 J32	075	
013	SPIRE SLW Ch05-08 . 7grnd	SSB.-	-	S002	12AXD-38	2				12 AX gnd 2-3 daisy ch to Pin 13 at JFS (A1)	CWUCR	33	211121 J32	115	

# Pin Allocation List (Harness)

Connector: 121220 P05

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SLW Bolom. Ch 1-12 HSJFS (C01)

Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3- 630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE SLW Ch05-08 . 8+	SSB-	-	S002	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	074	
008	SPIRE SLW Ch05-08 . 8-	SSB-	-	S002	12AXD-38	2		SLW-A1	CVVUCR	33	211121 J32	073	
013	SPIRE SLW Ch05-08 . 8gnd	SSB-	-	S002	12AXD-38	2		12 AX gnd 2-4 daisy ch to Pin 13 at JFS (A1)	CVVUCR	33	211121 J32	115	
013	SPIRE SLW Ch05-08 . SHD02	SSB-	-	S002	12AXD-38	2		Cable S002 inner Shd daisy ch to Pin 13 at JFS (A1)	CVVUCR	33	211121 J32	115	
CH	S002 12 AXD Outer Shield							Cable S002 outer Shd con to CH (Faraday)					
022	SPIRE SLW Ch09-12 . 9+	SSB-	-	S003	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	083	
009	SPIRE SLW Ch09-12 . 9-	SSB-	-	S003	12AXD-38	3		SLW-C2	CVVUCR	33	211121 J32	072	
013	SPIRE SLW Ch09-12 . 9gnd	SSB-	-	S003	12AXD-38	3		12 AX gnd 3-1 daisy ch to Pin 13 at JFS (A1)	CVVUCR	33	211121 J32	115	
023	SPIRE SLW Ch09-12 . 10+	SSB-	-	S003	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	095	
010	SPIRE SLW Ch09-12 . 10-	SSB-	-	S003	12AXD-38	3		SLW-D2	CVVUCR	33	211121 J32	084	
013	SPIRE SLW Ch09-12 . 10gnd	SSB-	-	S003	12AXD-38	3		12 AX gnd 3-2 daisy ch to Pin 13 at JFS (A1)	CVVUCR	33	211121 J32	115	
024	SPIRE SLW Ch09-12 . 11+	SSB-	-	S003	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	096	
011	SPIRE SLW Ch09-12 . 11-	SSB-	-	S003	12AXD-38	3		SLW-B2	CVVUCR	33	211121 J32	085	
013	SPIRE SLW Ch09-12 . 11gnd	SSB-	-	S003	12AXD-38	3		12 AX gnd 3-3 daisy ch to Pin 13 at JFS (A1)	CVVUCR	33	211121 J32	115	
025	SPIRE SLW Ch09-12 . 12+	SSB-	-	S003	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J32	106	
012	SPIRE SLW Ch09-12 . 12-	SSB-	-	S003	12AXD-38	3		SLW-E2	CVVUCR	33	211121 J32	107	
013	SPIRE SLW Ch09-12 . 12gnd	SSB-	-	S003	12AXD-38	3		12 AX gnd 3-4 daisy ch to Pin 13 at JFS (A1)	CVVUCR	33	211121 J32	115	
013	SPIRE SLW Ch09-12 . SHD03	SSB-	-	S003	12AXD-38	3		Cable S003 Shd daisy ch to Pin 13 at JFS (A1)	CVVUCR	33	211121 J32	115	
CH	S003 12 AXD Outer Shield							Cable S003 outer Shd con to CH (Faraday)					
013	SPIRE SLW GND Wire A1	SSX-	-	S401	010B0-30			Not a wire in cold !!! routed via Cable SHDs	CVVUCR	33	211121 J32	115	

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121220 P05

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SLW Bolom. Ch 1-12 HSJFS (C01)

Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal	Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
CH	Outer Shields=Faraday Shds						Faraday Shds con to Backshell - ECR39 tbc					
-	Isolation						Harness Branch to be isolated from S/C Struct.					
-												







# Pin Allocation List (Harness)

Connector: 121220 P04

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SSW Bolom. Sign. HSJFS (C02)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3--630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
001	SPIRE SSW Ch25-28 . 25+	SSA-	-	S059	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	013	
014	SPIRE SSW Ch25-28 . 25-	SSA-	-	S059	12AXD-38	1				SSW-E5	CVVUCR	33	211121 J31	012	
013	SPIRE SSW Ch25-28 . 25grnd	SSA-	-	S059	12AXD-38	1				12 AX gnd 1-1 daisy ch to Pin 13 at JFS side(A4)	CVVUCR	33	211121 J31	005	
002	SPIRE SSW Ch25-28 . 26+	SSA-	-	S059	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	021	
015	SPIRE SSW Ch25-28 . 26-	SSA-	-	S059	12AXD-38	1				SSW-E4	CVVUCR	33	211121 J31	020	
013	SPIRE SSW Ch25-28 . 26grnd	SSA-	-	S059	12AXD-38	1				12 AX gnd 1-2 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
003	SPIRE SSW Ch25-28 . 27+	SSA-	-	S059	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	031	
016	SPIRE SSW Ch25-28 . 27-	SSA-	-	S059	12AXD-38	1				SSW-D7	CVVUCR	33	211121 J31	043	
013	SPIRE SSW Ch25-28 . 27grnd	SSA-	-	S059	12AXD-38	1				12 AX gnd 1-3 daisy ch to Pin 13 at JFS side(A4)	CVVUCR	33	211121 J31	005	
004	SPIRE SSW Ch25-28 . 28+	SSA-	-	S059	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	042	
017	SPIRE SSW Ch25-28 . 28-	SSA-	-	S059	12AXD-38	1				SSW-D6	CVVUCR	33	211121 J31	054	
013	SPIRE SSW Ch25-28 . 28grnd	SSA-	-	S059	12AXD-38	1				12 AX gnd 1-4 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
013	SPIRE SSW Ch25-28 . SHD01	SSA-	-	S059	12AXD-38	1				Cable S059 inner Shd daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
CH	S059 12 AXD outer Shield									Cable S059 outer Shd con to CH (Faraday)					
005	SPIRE SSW Ch29-32 . 29+	SSA-	-	S060	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	010	
018	SPIRE SSW Ch29-32 . 29-	SSA-	-	S060	12AXD-38	2				SSW-D5	CVVUCR	33	211121 J31	011	
013	SPIRE SSW Ch29-32 . 29grnd	SSA-	-	S060	12AXD-38	2				12 AX gnd 2-1 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
006	SPIRE SSW Ch29-32 . 30+	SSA-	-	S060	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	019	
019	SPIRE SSW Ch29-32 . 30-	SSA-	-	S060	12AXD-38	2				SSW-D4	CVVUCR	33	211121 J31	029	
013	SPIRE SSW Ch29-32 . 30grnd	SSA-	-	S060	12AXD-38	2				12 AX gnd 2-2 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
020	SPIRE SSW Ch29-32 . 31+	SSA-	-	S060	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	041	
007	SPIRE SSW Ch29-32 . 31-	SSA-	-	S060	12AXD-38	2				SSW-C6	CVVUCR	33	211121 J31	030	
013	SPIRE SSW Ch29-32 . 31grnd	SSA-	-	S060	12AXD-38	2				12 AX gnd 2-3 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	

# Pin Allocation List (Harness)

**Connector:** 121220 P04

**Item:** HSJFS

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SSW Bolom. Sign. HSJFS (C02)

**Location:** 76 / on SPIRE JFET small

**Conn.-Type:** MWDM2L-25S-6C3-630

**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
021	SPIRE SSW Ch29-32 . 32+	SSA-	-	S060	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	053	
008	SPIRE SSW Ch29-32 . 32-	SSA-	-	S060	12AXD-38	2		SSW-C5	CVVUCR	33	211121 J31	052	
013	SPIRE SSW Ch29-32 . 32gnd	SSA-	-	S060	12AXD-38	2		12 AX gnd 2-4 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
013	SPIRE SSW Ch29-32 . SHD02	SSA-	-	S060	12AXD-38	2		Cable S060 inner Shd daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	-	
CH	S060 12 AXD Outer Shield							Cable S060 outer Shd con to CH (Faraday)					
022	SPIRE SSW Ch33-36 . 33+	SSA-	-	S062	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	009	
009	SPIRE SSW Ch33-36 . 33-	SSA-	-	S062	12AXD-38	3		SSW-C4	CVVUCR	33	211121 J31	017	
013	SPIRE SSW Ch33-36 . 33gnd	SSA-	-	S062	12AXD-38	3		12 AX gnd 3-1 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
023	SPIRE SSW Ch33-36 . 34+	SSA-	-	S062	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	018	
010	SPIRE SSW Ch33-36 . 34-	SSA-	-	S062	12AXD-38	3		SSW-B5	CVVUCR	33	211121 J31	028	
013	SPIRE SSW Ch33-36 . 34gnd	SSA-	-	S062	12AXD-38	3		12 AX gnd 3-2 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
024	SPIRE SSW Ch33-36 . 35+	SSA-	-	S062	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	016	
011	SPIRE SSW Ch33-36 . 35-	SSA-	-	S062	12AXD-38	3		SSW-B4	CVVUCR	33	211121 J31	027	
013	SPIRE SSW Ch33-36 . 35gnd	SSA-	-	S062	12AXD-38	3		12 AX gnd 3-3 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
025	SPIRE SSW Ch33-36 . 36+	SSA-	-	S062	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	040	
012	SPIRE SSW Ch33-36 . 36-	SSA-	-	S062	12AXD-38	3		SSW-T2	CVVUCR	33	211121 J31	039	
013	SPIRE SSW Ch33-36 . 36gnd	SSA-	-	S062	12AXD-38	3		12 AX gnd 3-4 daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
013	SPIRE SSW Ch33-36 . SHD03	SSA-	-	S062	12AXD-38	3		Cable S062 inner Shd daisy ch to Pin 13 at JFS side (A4)	CVVUCR	33	211121 J31	005	
CH	S062 12 AXD Outer Shield							Cable S062 outer Shd con to CH (Faraday)					
013	SPIRE B02 GND Wire A4	SSX-	-	S424	01050-30			Not a Wire at JFS Side, routed via Cable SHDs	CVVUCR	33	211121 J31	005	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121220 P04

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SSW Bolom. Sign. HSJFS (C02)

Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
CH	Outer Shields=Faraday Shds							Faraday Shds con to Backshell ECR0039tbc Harness Branch to be isolated!					
-	Isolation												





# Pin Allocation List (Harness)

Connector: 121220 P03

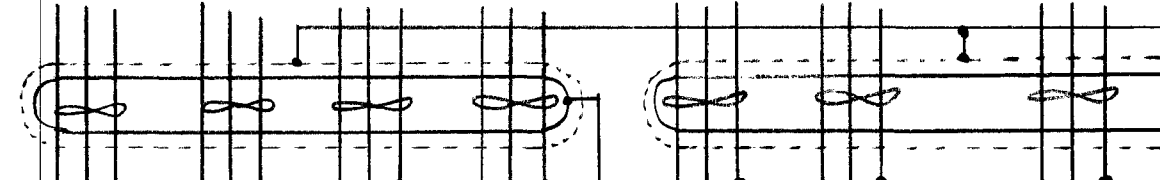
Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SSW Bolom. Sign. HSJFS (C02)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
005	SPIRE SSW Spare/2 . 1+	SSA.1	-	S247	121SS-38	1	1	Spare Triplet 1A	CVVUCR	33	211121 J31	063	
018	SPIRE SSW Spare/2 . 1-	SSA.1	-	S247	121SS-38	1	1	Spare 1	CVVUCR	33	211121 J31	075	
013	SPIRE SSW Spare/2 . 1gnd	SSA.1	-	S247	121SS-38	1	1	Spare Tripe 1gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	
006	SPIRE SSW Spare/2 . 2+	SSA.1	-	S247	121SS-38	1	1	Spare Triplet 2A	CVVUCR	33	211121 J31	074	
019	SPIRE SSW Spare/2 . 2-	SSA.1	-	S247	121SS-38	1	1	Spare 2	CVVUCR	33	211121 J31	073	
013	SPIRE SSW Spare/2 . 2gnd	SSA.1	-	S247	121SS-38	1	1	Spare Triplet 2gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	
020	SPIRE SSW Ch37-40 . 37+	SSA.-	-	S063	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	026	
007	SPIRE SSW Ch37-40 . 37-	SSA.-	-	S063	12AXD-38	1	1	SSW-G3	CVVUCR	33	211121 J31	037	
013	SPIRE SSW Ch37-40 . 37gnd	SSA.-	-	S063	12AXD-38	1	1	12 AX gnd 1-3 daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	
021	SPIRE SSW Ch37-40 . 38+	SSA.-	-	S063	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	038	
008	SPIRE SSW Ch37-40 . 38-	SSA.-	-	S063	12AXD-38	1	1	SSW-G4	CVVUCR	33	211121 J31	049	
013	SPIRE SSW Ch37-40 . 38gnd	SSA.-	-	S063	12AXD-38	1	1	12 AX gnd 1-4 daisy ch to Pin 13	CVVUCR	33	211121 J31	036	
013	SPIRE SSW Ch37-40 . SHD01	SSA.-	-	S063	12AXD-38	1	1	Cable S063 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	
022	SPIRE SSW Ch37-40 . 39+	SSA.-	-	S063	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	048	
009	SPIRE SSW Ch37-40 . 39-	SSA.-	-	S063	12AXD-38	2	2	SSW-DK2	CVVUCR	33	211121 J31	060	
013	SPIRE SSW Ch37-40 . 39gnd	SSA.-	-	S063	12AXD-38	2	2	12 AX gnd 1-3 daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	
023	SPIRE SSW Ch37-40 . 40+	SSA.-	-	S063	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	059	
010	SPIRE SSW Ch37-40 . 40-	SSA.-	-	S063	12AXD-38	2	2	SSW-F5	CVVUCR	33	211121 J31	071	
013	SPIRE SSW Ch37-40 . 40gnd	SSA.-	-	S063	12AXD-38	2	2	12 AX gnd 1-4 daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	
-	S063 12 AXD Outer Shield							Cable S063 outer Shd con to CH (Faraday)					
024	SPIRE SSW Ch41-42 . 41+	SSA.-	-	S064	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	050	
011	SPIRE SSW Ch41-42 . 41-	SSA.-	-	S064	12AXD-38	2	2	SSW-F4	CVVUCR	33	211121 J31	061	
013	SPIRE SSW Ch41-42 . 41gnd	SSA.-	-	S064	12AXD-38	2	2	12 AX gnd 2-1 daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	





# Pin Allocation List (Harness)

Connector: 121220 P03

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

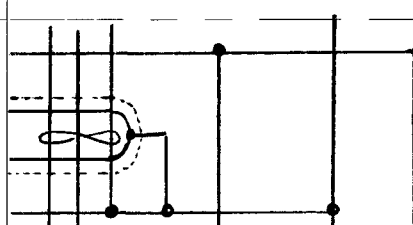
Function: SSW Bolom. Sign. HSJFS (C02)

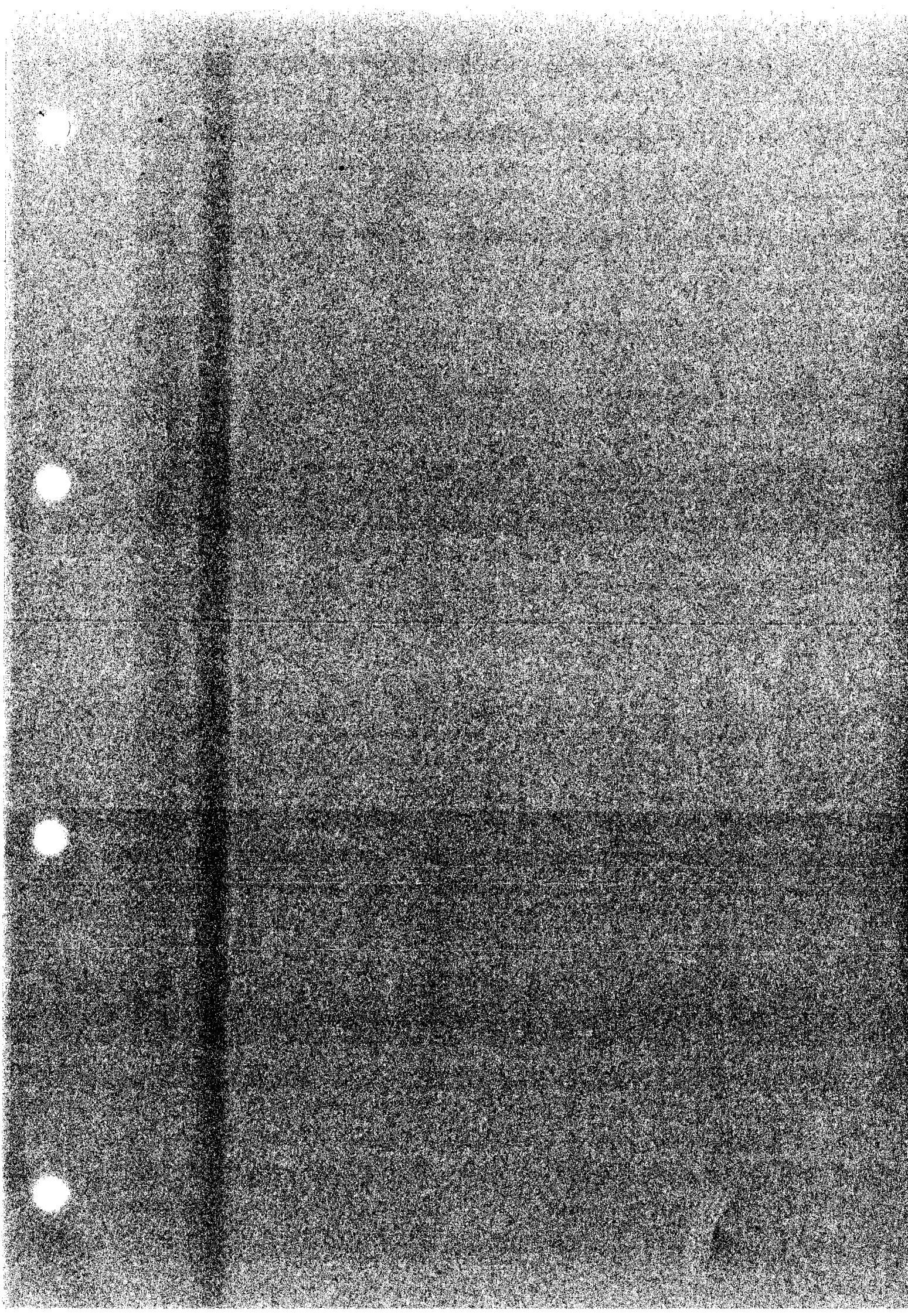
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Shd						
025	SPIRE SSW Ch41-42 . 42+	SSA	-	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	062	
012	SPIRE SSW Ch41-42 . 42-	SSA	-	12AXD-38	2	2	SSW-E6	CVVUCR	33	211121 J31	051	
013	SPIRE SSW Ch41-42 . 42gnd	SSA	-	12AXD-38	2	2	12 AX gnd 2-2 daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	
013	SPIRE SSW Ch41-42 . SHD02	SSA	-	12AXD-38	2	2	Cable S063/064 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J31	036	
CH	S063/064 12 AXD Outer Shield						Cable S063/064 outer Shd con to CH (Faraday)					
013	SPIRE B02 GND Wire A3	SSX	-	010B0-30			Not a Wire at JFS side, routed via Cable SHDs	CVVUCR	33	211121 J31	036	
CH	Outer Shields=Farady Shds						Faraday Shds con to Backshell ECR0039fbc					
	Isolation						Harness Branch to be isolated !					





# Pin Allocation List (Harness)

Connector: 121220 P07

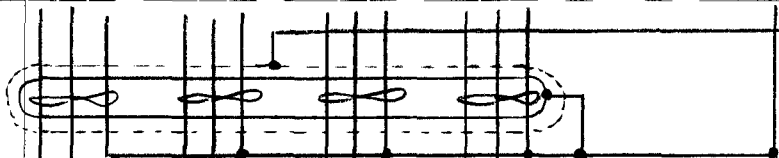
Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: Bolom.300 mK T.C. (C02)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3--630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
005	SPIRE SSW PTC Ch's . 1+	S3D.-	-	S053	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J31	095	
018	SPIRE SSW PTC Ch's . 1-	S3D.-	-	S053	12AXD-38	1		PTC-1	CWUCR	33	211121 J31	084	
013	SPIRE SSW PTC Ch's . 1gnd	S3D.-	-	S053	12AXD-38	1		12 AX gnd 1-1 daisy ch to Pin 13 at JFS side(B5)	CWUCR	33	211121 J31	082	
006	SPIRE SSW PTC Ch's . 2+	S3D.-	-	S053	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J31	096	
019	SPIRE SSW PTC Ch's . 2-	S3D.-	-	S053	12AXD-38	1		PTC-2	CWUCR	33	211121 J31	085	
013	SPIRE SSW PTC Ch's . 2gnd	S3D.-	-	S053	12AXD-38	1		12 AX gnd 1-2 daisy ch to Pin 13 at JFS side(B5)	CWUCR	33	211121 J31	082	
020	SPIRE SSW PTC Ch's . 3+	S3D.-	-	S053	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J31	106	
007	SPIRE SSW PTC Ch's . 3-	S3D.-	-	S053	12AXD-38	1		PTC-3	CWUCR	33	211121 J31	107	
013	SPIRE SSW PTC Ch's . 3gnd	S3D.-	-	S053	12AXD-38	1		12 AX gnd 1-3 daisy ch to Pin 13 at JFS side(B5)	CWUCR	33	211121 J31	082	
021	SPIRE SSW PTC (5MOhm) . Res+	S3D.-	-	S248	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J31	083	
008	SPIRE SSW PTC (5MOhm) . Res-	S3D.-	-	S248	12AXD-38	1		5M -1	CWUCR	33	211121 J31	072	
013	SPIRE SSW PTC (5MOhm) . Rgnd	S3D.-	-	S248	12AXD-38	1		12 AX gnd 4-1 daisy ch to Pin 13 at JFS side(B5)	CWUCR	33	211121 J31	082	
013	SPIRE SSW PTC (5MOhm) . SHD01	S3D.-	-	S248	12AXD-38	1		Cable S053 /248 Inner Shd daisy ch to Pin 13 at JFS side (B5)	CWUCR	33	211121 J31		
-	S053/248 12 AXD Outer Shield							Cable S053 /248 outer Shd con to CH (Faraday)					
013	SPIRE B02 GND Wire A5	SSX.-	-	S425	010B0-30			Not a wire at JFS Side, routed via Cable SHDs	CWUCR	33	211121 J31	082	
003	NC												
004	NC												
009	NC												
010	NC												
011	NC												
012	NC												
014	NC												
015	NC												
016	NC												
017	NC												
022	NC												



Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 2)

Connector: 121220 P07

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: Bolom.300 mK T.C. (C02)

Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
023	NC												
024	NC												
025	NC												
CH	Outer Shds=Faraday Shds							Faraday Shd con to Backshell ECR0039fbc					
-	Isolation							Harness branch to be isolated					
-								No GND Wire at JFS side					



# Pin Allocation List (Harness)

Connector: 121220 P02  
Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SSW Bolom. Sign. HSJFS (C02)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
001	SPIRE SSW Ch13-16 . 13+	SSA-	-	S055	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	086	
014	SPIRE SSW Ch13-16 . 13-	SSA-	-	S055	12AXD-38	1		SSW-D3	CVVUCR	33	211121 J31	087	
013	SPIRE SSW Ch13-16 . 13grnd	SSA-	-	S055	12AXD-38	1		12 AX gnd 1-1 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
002	SPIRE SSW Ch13-16 . 14+	SSA-	-	S055	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	097	
015	SPIRE SSW Ch13-16 . 14-	SSA-	-	S055	12AXD-38	1		SSW-D2	CVVUCR	33	211121 J31	098	
013	SPIRE SSW Ch13-16 . 14grnd	SSA-	-	S055	12AXD-38	1		12 AX gnd 1-2 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
003	SPIRE SSW Ch13-16 . 15+	SSA-	-	S055	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	108	
016	SPIRE SSW Ch13-16 . 15-	SSA-	-	S055	12AXD-38	1		SSW-D1	CVVUCR	33	211121 J31	109	
013	SPIRE SSW Ch13-16 . 15grnd	SSA-	-	S055	12AXD-38	1		12 AX gnd 1-3 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
004	SPIRE SSW Ch13-16 . 16+	SSA-	-	S055	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	116	
017	SPIRE SSW Ch13-16 . 16-	SSA-	-	S055	12AXD-38	1		SSW-E3	CVVUCR	33	211121 J31	117	
013	SPIRE SSW Ch13-16 . 16grnd	SSA-	-	S055	12AXD-38	1		12 AX gnd 1-4 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
013	SPIRE SSW Ch13-16 . SHD01	SSA-	-	S055	12AXD-38	1		Cable S055 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
CH	S055 12 AXD Outer Shield							Cable S055 outer Shd con to CH (Faraday)					
005	SPIRE SSW Ch17-20 . 17+	SSA-	-	S056	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	055	
018	SPIRE SSW Ch17-20 . 17-	SSA-	-	S056	12AXD-38	2		SSW-E2	CVVUCR	33	211121 J31	066	
013	SPIRE SSW Ch17-20 . 17grnd	SSA-	-	S056	12AXD-38	2		12 AX gnd 2-1 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
006	SPIRE SSW Ch17-20 . 18+	SSA-	-	S056	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	067	
019	SPIRE SSW Ch17-20 . 18-	SSA-	-	S056	12AXD-38	2		SSW-E1	CVVUCR	33	211121 J31	078	
013	SPIRE SSW Ch17-20 . 18grnd	SSA-	-	S056	12AXD-38	2		12 AX gnd 2-2 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
020	SPIRE SSW Ch17-20 . 19+	SSA-	-	S056	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	076	
007	SPIRE SSW Ch17-20 . 19-	SSA-	-	S056	12AXD-38	2		SSW-F3	CVVUCR	33	211121 J31	077	
013	SPIRE SSW Ch17-20 . 19grnd	SSA-	-	S056	12AXD-38	2		12 AX gnd 2-3 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	



# Pin Allocation List (Harness)

Connector: 121220 P02  
Item: HSJFS  
EMC-Category: 2C/Sig H in Cryostat

Function: SSW Bolom. Sign. HSJFS (C02)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE SSW Ch17-20 . 20+	SSA-	-	S056	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	088	
008	SPIRE SSW Ch17-20 . 20-	SSA-	-	S056	12AXD-38	2		SSW-F2	CVVUCR	33	211121 J31	089	
013	SPIRE SSW Ch17-20 . 20gnd	SSA-	-	S056	12AXD-38	2		12 AX gnd 2-4 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
013	SPIRE SSW Ch17-20 . SHD02	SSA-	-	S056	12AXD-38	2		Cable S056 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
CH	S056 12 AXD Outer Shield							Cable S056 outer Shd con to CH (Faraday)					
022	SPIRE SSW Ch21-24 . 21+	SSA-	-	S058	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	099	
009	SPIRE SSW Ch21-24 . 21-	SSA-	-	S058	12AXD-38	3		SSW-F1	CVVUCR	33	211121 J31	100	
013	SPIRE SSW Ch21-24 . 21gnd	SSA-	-	S058	12AXD-38	3		12 AX gnd 3-1 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
023	SPIRE SSW Ch21-24 . 22+	SSA-	-	S058	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	110	
010	SPIRE SSW Ch21-24 . 22-	SSA-	-	S058	12AXD-38	3		SSW-G1	CVVUCR	33	211121 J31	111	
013	SPIRE SSW Ch21-24 . 22gnd	SSA-	-	S058	12AXD-38	3		12 AX gnd 3-2 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
024	SPIRE SSW Ch21-24 . 23+	SSA-	-	S058	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	118	
011	SPIRE SSW Ch21-24 . 23-	SSA-	-	S058	12AXD-38	3		SSW-T1	CVVUCR	33	211121 J31	119	
013	SPIRE SSW Ch21-24 . 23gnd	SSA-	-	S058	12AXD-38	3		12 AX gnd 3-3 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
025	SPIRE SSW Ch21-24 . 24+	SSA-	-	S058	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	112	
012	SPIRE SSW Ch21-24 . 24-	SSA-	-	S058	12AXD-38	3		SSW-G2	CVVUCR	33	211121 J31	120	
013	SPIRE SSW Ch21-24 . 24gnd	SSA-	-	S058	12AXD-38	3		12 AX gnd 3-4 daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
013	SPIRE SSW Ch21-24 . SHD03	SSA-	-	S058	12AXD-38	3		Cable S058 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J31	128	
CH	S058 12 AXD Outer Shield							Cable S058 outer Shd con to CH (Faraday)					
13	SPIRE B02 GND Wire A2	SSX-	-	S422	010B0-30			Not a wire at JFS side, routed via Cable SHDs	CVVUCR	33	211121 J31	128	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121220 P02

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SSW Bolom. Sign. HSJFS (C02)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal									
CH	Outer Shields=Faraday Shds					Shd Cable Twist	Faraday Shds con to Backshell ECR0039tbc					
-	Isolation						Harness Branch to be isolated No GND Wires at FPU Side					
-												







# Pin Allocation List (Harness)

Connector: 121220 P01  
Item: HSJFS  
EMC-Category: 2C/Sig H in Cryostat

Function: SSW Bolom. Sign. HSJFS (C02)  
Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-.630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
001	SPIRE SSW Ch01-04 . 1+	SSA- -	S051	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	090	
014	SPIRE SSW Ch01-04 . 1-	SSA- -	S051	12AXD-38	1		SSW-R1	CVVUCR	33	211121 J31	079	
013	SPIRE SSW Ch01-04 . 1gnd	SSA- -	S051	12AXD-38	1		12 AX gnd 1-1 daisy ch to Pin 13 at JFS side (A1)	CVVUCR	33	211121 J31	047	
002	SPIRE SSW Ch01-04 . 2+	SSA- -	S051	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	102	
015	SPIRE SSW Ch01-04 . 2-	SSA- -	S051	12AXD-38	1		SSW-A4	CVVUCR	33	211121 J31	101	
013	SPIRE SSW Ch01-04 . 2gnd	SSA- -	S051	12AXD-38	1		12 AX gnd 1-2 daisy ch to Pin 13 at JFS Side (A1)	CVVUCR	33	211121 J31	047	
003	SPIRE SSW Ch01-04 . 3+	SSA- -	S051	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	092	
016	SPIRE SSW Ch01-04 . 3-	SSA- -	S051	12AXD-38	1		SSW-A3	CVVUCR	33	211121 J31	091	
013	SPIRE SSW Ch01-04 . 3gnd	SSA- -	S051	12AXD-38	1		12 AX gnd 1-3 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
004	SPIRE SSW Ch01-04 . 4+	SSA- -	S051	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	103	
017	SPIRE SSW Ch01-04 . 4-	SSA- -	S051	12AXD-38	1		SSW-A2	CVVUCR	33	211121 J31	113	
013	SPIRE SSW Ch01-04 . 4gnd	SSA- -	S051	12AXD-38	1		12 AX gnd 1-4 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
013	SPIRE SSW Ch01-04 . SHD01	SSA- -	S051	12AXD-38	1		Cable S051 inner Shd daisy ch to Pin 13	CVVUCR	33	211121 J31	047	
CH	S051 12 AXD Outer Shield						Cable S051 outer Shd con to CH (Faraday)					
005	SPIRE SSW Ch05-08 . 5+	SSA- -	S052	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	058	
018	SPIRE SSW Ch05-08 . 5-	SSA- -	S052	12AXD-38	2		SSW-A1	CVVUCR	33	211121 J31	046	
013	SPIRE SSW Ch05-08 . 5gnd	SSA- -	S052	12AXD-38	2		12 AX gnd 2-1 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
006	SPIRE SSW Ch05-08 . 6+	SSA- -	S052	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	068	
019	SPIRE SSW Ch05-08 . 6-	SSA- -	S052	12AXD-38	2		SSW-DK1	CVVUCR	33	211121 J31	057	
013	SPIRE SSW Ch05-08 . 6gnd	SSA- -	S052	12AXD-38	2		12 AX gnd 2-2 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
020	SPIRE SSW Ch05-08 . 7+	SSA- -	S052	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	069	
007	SPIRE SSW Ch05-08 . 7-	SSA- -	S052	12AXD-38	2		SSW-B3	CVVUCR	33	211121 J31	080	
013	SPIRE SSW Ch05-08 . 7gnd	SSA- -	S052	12AXD-38	2		12 AX gnd 2-3 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	

# Pin Allocation List (Harness)

**Connector:** 121220 P01  
**Item:** HSJFS  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SSW Bolom. Sign. HSJFS (C02)  
**Location:** 76 / on SPIRE JFET small

**Conn.-Type:** MWDM2L-25S-6C3-.630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE SSW Ch05-08 . 8+	SSA-	-	S052	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	070	
008	SPIRE SSW Ch05-08 . 8-	SSA-	-	S052	12AXD-38	2		SSW-B2	CVVUCR	33	211121 J31	081	
013	SPIRE SSW Ch05-08 . 8gnd	SSA-	-	S052	12AXD-38	2		12 AX gnd 2-4 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
013	SPIRE SSW Ch05-08 . SHD02	SSA-	-	S052	12AXD-38	2		Cable S052 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
CH	S052 12 AXD Outer Shield							Cable S052 outer Shd con to CH (Faraday)					
022	SPIRE SSW Ch09-12 . 9+	SSA-	-	S054	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	023	
009	SPIRE SSW Ch09-12 . 9-	SSA-	-	S054	12AXD-38	3		SSW-B1	CVVUCR	33	211121 J31	034	
013	SPIRE SSW Ch09-12 . 9gnd	SSA-	-	S054	12AXD-38	3		12 AX gnd 3-1 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
023	SPIRE SSW Ch09-12 . 10+	SSA-	-	S054	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	033	
010	SPIRE SSW Ch09-12 . 10-	SSA-	-	S054	12AXD-38	3		SSW-C3	CVVUCR	33	211121 J31	045	
013	SPIRE SSW Ch09-12 . 10gnd	SSA-	-	S054	12AXD-38	3		12 AX gnd 3-2 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
024	SPIRE SSW Ch09-12 . 11+	SSA-	-	S054	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	044	
011	SPIRE SSW Ch09-12 . 11-	SSA-	-	S054	12AXD-38	3		SSW-C1	CVVUCR	33	211121 J31	056	
013	SPIRE SSW Ch09-12 . 11gnd	SSA-	-	S054	12AXD-38	3		12 AX gnd 3-3 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
025	SPIRE SSW Ch09-12 . 12+	SSA-	-	S054	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J31	022	
012	SPIRE SSW Ch09-12 . 12-	SSA-	-	S054	12AXD-38	3		SSW-C1	CVVUCR	33	211121 J31	032	
013	SPIRE SSW Ch09-12 . 12gnd	SSA-	-	S054	12AXD-38	3		12 AX gnd 3-4 daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
013	SPIRE SSW Ch09-12 . SHD03	SSA-	-	S054	12AXD-38	3		Cable S054 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J31	047	
CH	S054 12 AXD Outer Shield							Cable S054 outer Shd con to CH (Faraday)					
013	SPIRE B02 GND Wire A1	SSX-	-	S421	010B0-30			Not a wire at JFS side, routed via cable Shds	CVVUCR	33	211121 J31	047	

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 121220 P01

Item: HSJFS

EMC-Category: 2C/Sig H in Cryostat

Function: SSW Bolom. Sign. HSJFS (C02)

Location: 76 / on SPIRE JFET small

Conn.-Type: MWDM2L-25S-6C3-630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
CH	Outer Shields=Faraday Shds						Faraday Shds con to Backshell ECR0039 tbc					
-	Isolation						Harness Branch to be isolated					
-							No Gnd Wires in P01					





# Pin Allocation List (Harness)

**Connector:** 121210 P25

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** PSW Bias Prime -DCU (C03)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
020	SPIRE PSW_JFETV1_A . A+	SPL	-	S176	022BS-38	1	1	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	026	
002	SPIRE PSW_JFETV1_A . A-	SPL	-	S176	022BS-38	1	1	Cable S176 inner Shd also to Pin 10 at JFP side (A1)	CVVUCR	33	211121 J26	037	
001	SPIRE PSW_JFETV1_A . SHD01	SPL	-	S176	022BS-38	1	1	Cable S176 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	036	
-	Cable S176 Outer Shield												
003	SPIRE PSW_JFETV2_A . A+	SPL	-	S177	022BS-38	2	2	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	038	
022	SPIRE PSW_JFETV2_A . A-	SPL	-	S177	022BS-38	2	2	Cable S177 inner Shd als con to Pin 10 at JFP side (A1)	CVVUCR	33	211121 J26	049	
021	SPIRE PSW_JFETV2_A . SHD02	SPL	-	S177	022BS-38	2	2	Cable S177 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	036	
-	Cable S177 outer Shield												
023	SPIRE PSW_JFETV3_A . A+	SPL	-	S178	022BS-38	3	3	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	048	
005	SPIRE PSW_JFETV3_A . A-	SPL	-	S178	022BS-38	3	3	Cable S178 inner Shd also con to Pin 10 at JFP side (A1)	CVVUCR	33	211121 J26	060	
004	SPIRE PSW_JFETV3_A . SHD03	SPL	-	S178	022BS-38	3	3	Cable S178 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	036	
-	Cable S178 outer Shield												
006	SPIRE PSW_JFETV4_A . A+	SPL	-	S179	022BS-38	4	4	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	059	
025	SPIRE PSW_JFETV4_A . A-	SPL	-	S179	022BS-38	4	4	Cable S179 inner Shd also con to Pin 10 at JFP side (A1)	CVVUCR	33	211121 J26	071	
024	SPIRE PSW_JFETV4_A . SHD04	SPL	-	S179	022BS-38	4	4	Cable S179 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	036	
-	Cable S179 outer Shield												
026	SPIRE PSW_JFETV5_A . A+	SPL	-	S180	022BS-38	5	5	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	050	
008	SPIRE PSW_JFETV5_A . A-	SPL	-	S180	022BS-38	5	5	Cable S180 inner Shd con to Pin 10 at JFP side (A1)	CVVUCR	33	211121 J26	061	
007	SPIRE PSW_JFETV5_A . SHD05	SPL	-	S180	022BS-38	5	5	Cable S180 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	036	
-	Cable S180 outer Shield												
009	SPIRE PSW_JFETV6_A . A+	SPL	-	S181	022BS-38	6	6	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	062	
028	SPIRE PSW_JFETV6_A . A-	SPL	-	S181	022BS-38	6	6	Cable S181 inner Shd con to Pin 10 at JFP side (A1)	CVVUCR	33	211121 J26	051	
027	SPIRE PSW_JFETV6_A . SHD06	SPL	-	S181	022BS-38	6	6	Cable S181 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	036	



# Pin Allocation List (Harness)

Connector: 121210 P25

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: PSW Bias Prime -DCU (C03)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-37P-6C3--630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Shd	Grouping: Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
-	Cable S181 outer Shield													
010	SPIRE PSW_JFETV GND A1	SPX	-	-	S431	010B0-30			Cable S181 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	036	
011	SPIRE PSW_Bias1/2_A_ A+	SPK	-	-	S183	022BS-38	7		200 Ohm/3.8E-07 A	CVUUCR	33	211121 J26	063	
029	SPIRE PSW_Bias1/2_A_ A-	SPK	-	-	S183	022BS-38	7		Cable S183 inner Shd also con to Pin 10 at JFP side (A1)	CVUUCR	33	211121 J26	075	
030	SPIRE PSW_Bias1/2_A_ SHD07	SPK	-	-	S183	022BS-38	7		Cable S183 outer Shd con to CH	CVUUCR	33	211121 J26	036	
-	Cable S183 outer Shield													
031	SPIRE PSW_Bias3/4_A_ A+	SPK	-	-	S184	022BS-38	8		200 Ohm/3.8E-07 A	CVUUCR	33	211121 J26	074	
012	SPIRE PSW_Bias3/4_A_ A-	SPK	-	-	S184	022BS-38	8		Cable S184 inner Shd also con to Pin 10 at JFP side (A1)	CVUUCR	33	211121 J26	073	
013	SPIRE PSW_Bias3/4_A_ SHD08	SPK	-	-	S184	022BS-38	8		Cable S184 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	036	
-	Cable S184 outer Shield													
014	SPIRE PSW_Bias5/6_A_ A+	SPK	-	-	S185	022BS-38	9		200 Ohm/3.8E-07 A	CVUUCR	33	211121 J26	083	
032	SPIRE PSW_Bias5/6_A_ A-	SPK	-	-	S185	022BS-38	9		Cable S185 inner Shd also con to Pin 10 at JFP side (A1)	CVUUCR	33	211121 J26	072	
033	SPIRE PSW_Bias5/6_A_ SHD09	SPK	-	-	S185	022BS-38	9		Cable S185 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	036	
-	Cable S185 outer Shield													
034	SPIRE PSW_Heater_A1_ A1+	SPM	-	-	S186	021SS-38	10		200 Ohm/3.8E-03 A	CVUUCR	33	211121 J26	095	
015	SPIRE PSW_Heater_A1_ A1-	SPM	-	-	S186	021SS-38	10		Cable 186 Shd routed as GND wire B1, con to Shd 187,188 at JFP side	CVUUCR	33	211121 J26	084	
016	SPIRE PSW_Heater_A1_ SHD10	SPM	-	-	S186	021SS-38	10			CVUUCR	33	211121 J26	105	
-	Cable S186 outer Shield													
017	SPIRE PSW_Heater_A2_ A2+	SPM	-	-	S187	021SS-38	11		200 Ohm/3.8E-03 A	CVUUCR	33	211121 J26	096	
035	SPIRE PSW_Heater_A2_ A2-	SPM	-	-	S187	021SS-38	11		Cable 187 Shd routed as GND wire B1, con to Shd 186, 188 at JFP side	CVUUCR	33	211121 J26	085	
036	SPIRE PSW_Heater_A2_ SHD11	SPM	-	-	S187	021SS-38	11			CVUUCR	33	211121 J26	105	
-	Cable S187 outer Shield													
037	SPIRE PSW_Heater_A3_ A3+	SPM	-	-	S188	021SS-38	12		200 Ohm/3.8E-03 A	CVUUCR	33	211121 J26	106	

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 121210 P25

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: PSW Bias Prime -DCU (C03)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
018	SPIRE PSW_Heater_A3 . A3-	SPM.-	-	S188	021SS-38	12		Cable 188 Shd con to Shd 186, 187 at JFP side (not con to pin!)	CVVUCR	33	211121 J26	107	
036	SPIRE PSW_Heater_A3 . SHD12	SPM.-	-	S188	021SS-38	12			CVVUCR	33	211121 J26	105	
036	SPIRE PSW_HTR GND B1	SPX.-	-	S432	010B0-30			Not a wire at JFS side, routed via Cable SHDs to CVV FThs	CVVUCR	33	211121 J26	105	
CH	Outer Shields=Farady Shds							Faraday Shds con to Backshell ECR0039 tbc					
-	Isolation							Farady Shd insulated from S/C structure					





# Pin Allocation List (Harness)

Connector: 121210 P27

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: PMW/PLW Bias Prime -DCU (C03)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-37P-6C3--630  
Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
020	SPIRE PMW_JFETV1_A . A+	SPH.-	-	S190	022BS-38	1				100 Ohm/5.0E-03 A	CVUUCR	33	211121 J26	086	
002	SPIRE PMW_JFETV1_A . A-	SPH.-	-	S190	022BS-38	1				Cable S190 inner Shd also con to Pin 28 at JFP side (A2)	CVUUCR	33	211121 J26	087	
001	SPIRE PMW_JFETV1_A . SHD01	SPH.-	-	S190	022BS-38	1				Cable S190 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	064	
-	Cable S190 outer Shield														
003	SPIRE PMW_JFETV2_A . A+	SPH.-	-	S191	022BS-38	2				100 Ohm/5.0E-03 A	CVUUCR	33	211121 J26	097	
022	SPIRE PMW_JFETV2_A . A-	SPH.-	-	S191	022BS-38	2				Cable S191 inner Shd also con to Pin 28 at JFP side (A2)	CVUUCR	33	211121 J26	098	
021	SPIRE PMW_JFETV2_A . SHD02	SPH.-	-	S191	022BS-38	2				Cable S191 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	064	
-	Cable S191 outer Shield														
023	SPIRE PMW_JFETV3_A . A+	SPH.-	-	S192	022BS-38	3				100 Ohm/5.0E-03 A	CVUUCR	33	211121 J26	108	
005	SPIRE PMW_JFETV3_A . A-	SPH.-	-	S192	022BS-38	3				Cable S192 inner Shd also con to Pin 28 at JFP side (A2)	CVUUCR	33	211121 J26	109	
004	SPIRE PMW_JFETV3_A . SHD03	SPH.-	-	S192	022BS-38	3				Cable S192 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	064	
-	Cable S192 outer Shield														
006	SPIRE PMW_JFETV4_A . A+	SPH.-	-	S193	022BS-38	4				100 Ohm/5.0E-03 A	CVUUCR	33	211121 J26	116	
025	SPIRE PMW_JFETV4_A . A-	SPH.-	-	S193	022BS-38	4				Cable S193 inner Shd also con to Pin 28 at JFP side (A2)	CVUUCR	33	211121 J26	117	
024	SPIRE PMW_JFETV4_A . SHD04	SPH.-	-	S193	022BS-38	4				Cable S193 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	064	
-	Cable S193 outer Shield														
026	SPIRE PMW_Bias1/2_A . A+	SPG.-	-	S194	022BS-38	5				200 Ohm/3.8E-07 A	CVUUCR	33	211121 J26	076	
008	SPIRE PMW_Bias1/2_A . A-	SPG.-	-	S194	022BS-38	5				Cable S194 inner Shd also con to Pin 28 at JFP side (A2)	CVUUCR	33	211121 J26	077	
007	SPIRE PMW_Bias1/2_A . SHD05	SPG.-	-	S194	022BS-38	5				Cable S194 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	064	
-	Cable S194 outer Shield														
027	SPIRE PMW_Bias3/4_A . A+	SPG.-	-	S195	022BS-38	6				200 Ohm/3.8E-07 A	CVUUCR	33	211121 J26	088	
009	SPIRE PMW_Bias3/4_A . A-	SPG.-	-	S195	022BS-38	6				Cable S195 inner Shd also con to Pin 28 at JFP side (A2)	CVUUCR	33	211121 J26	089	
028	SPIRE PMW_Bias3/4_A . SHD06	SPG.-	-	S195	022BS-38	6				Cable S195 outer Shd con to CH (Faraday)	CVUUCR	33	211121 J26	064	

# Pin Allocation List (Harness)

Connector: 121210 P27

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: PMW/PLW Bias Prime -DCU (C03)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-37P-6C3-630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
			Ch. ID	Wiring	Shd						
-	Cable S195 outer Shield					Cable S195 outer Shd con to CH (Faraday)					
028	SPIRE PMW_GND A2	SPX.- -	S435	010B0-30		PMW Gnd A2 con to Cable 190 - 195 Shd	CVVUCR	33	211121 J26	064	
029	SPIRE PMW_Heater_A1 . A1+	SPJ.- -	S197	021SS-38	7	200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	103	
010	SPIRE PMW_Heater_A1 . A1-	SPJ.- -	S197	021SS-38	7		CVVUCR	33	211121 J26	113	
011	SPIRE PMW_Heater_A1 . SHD07	SPJ.- -	S197	021SS-38	7	Cable 197 Shd route as GND wire B2, con to 198,199 Shd at JFP side	CVVUCR	33	211121 J26	114	
012	SPIRE PMW_Heater_A2 . A2+	SPJ.- -	S198	021SS-38	8	200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	102	
030	SPIRE PMW_Heater_A2 . A2-	SPJ.- -	S198	021SS-38	8		CVVUCR	33	211121 J26	101	
011	SPIRE PMW_Heater_A2 . SHD08	SPJ.- -	S198	021SS-38	8	Cable 198 Shd con to 197,199Shd (not con to pin!)	CVVUCR	33	211121 J26	114	
013	SPIRE PLW_Heater_A . A+	SPF.- -	S199	021SS-38	9	200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	092	
031	SPIRE PLW_Heater_A . A-	SPF.- -	S199	021SS-38	9		CVVUCR	33	211121 J26	104	
011	SPIRE PLW_Heater_A . SHD09	SPF.- -	S199	021SS-38	9	Cable 99 Shd con to 197,199Shd (not con to pin!)	CVVUCR	33	211121 J26	093	
011	SPIRE HTR GND B2	SPX.- -	S436	010B0-30		Not a wire at JFS Side, routed via Cable SHDs	CVVUCR	33	211121 J26	114	
014	SPIRE PLW_JFETV1_A . A+	SPE.- -	S200	022BS-38	10	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	99	
032	SPIRE PLW_JFETV1_A . A-	SPE.- -	S200	022BS-38	10		CVVUCR	33	211121 J26	100	
033	SPIRE PLW_JFETV1_A . SHD10	SPE.- -	S200	022BS-38	10	Cable S200 inner Shd also con to Pin 19 at JFP side (C2)	CVVUCR	33	211121 J26	128	
-	Cable S200 outer Shield					Cable S200 outer Shd con to CH (Faraday)					
034	SPIRE PLW_JFETV2_A . A+	SPE.- -	S201	022BS-38	11	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	110	
015	SPIRE PLW_JFETV2_A . A-	SPE.- -	S201	022BS-38	11		CVVUCR	33	211121 J26	111	
016	SPIRE PLW_JFETV2_A . SHD11	SPE.- -	S201	022BS-38	11	Cable S201 inner Shd also con to Pin 19 at JFP side (C2)	CVVUCR	33	211121 J26	128	
-	Cable S201 outer Shield					Cable S201 outer Shd con to CH (Faraday)					
017	SPIRE PLW_Bias1_A . A+	SPD.- -	S202	022BS-38	12	200 Ohm/1.9E-07 A	CVVUCR	33	211121 J26	118	

# Pin Allocation List (Harness)

**Connector:** 121210 P27

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** PMW/PLW Bias Prime -DCU (C03)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
035	SPIRE PLW_Bias1_A . A-	SPD.-	-	S202	022BS-38	12		Cable S202 inner Shd also con to Oin 19 at JFP side (C2)	CVVUCR	33	211121 J26	119	
036	SPIRE PLW_Bias1_A . SHD12	SPD.-	-	S202	022BS-38	12			Cable S202 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	128
-	Cable S202 outer Shield												
037	SPIRE PLW_Bias2_A . A+	SPD.-	-	S203	022BS-38	13		200 Ohm/1.9E-07 A	CVVUCR	33	211121 J26	112	
018	SPIRE PLW_Bias2_A . A-	SPD.-	-	S203	022BS-38	13		Cable S203 inner Shd also con to Pin 19 at JFP side (C2)	CVVUCR	33	211121 J26	120	
019	SPIRE PLW_Bias2_A . SHD13	SPD.-	-	S203	022BS-38	13			Cable S203 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	128
-	Cable S203 outer Shield												
019	SPIRE PLW GND C2	SPX.-	-	S437	010B0-30			PLW GND Wire C2 con to cable 200 - 203 Shd	CVVUCR	33	211121 J26	128	
CH	Outer Shields=Faraday Shds							Faraday Shd con to Backshell					
-	Isolation							Faraday Shd insulated from S/C structure					







# Pin Allocation List (Harness)

**Connector:** 121210 P26

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** PSW Bias Red -DCU (C03)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
020	SPIRE PSW_JFETV1_B . B+	SPL	-	S205	022BS-38	1	1		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	042	
002	SPIRE PSW_JFETV1_B . B-	SPL	-	S205	022BS-38	1	1		Cable S205 inner Shd also con to Pin 10 at JFP side (A3) Cable S205 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	054	
001	SPIRE PSW_JFETV1_B . SHD01	SPL	-	S205	022BS-38	1	1			CVVUCR	33	211121 J26	001	
-	Cable S205 outer Shield													
003	SPIRE PSW_JFETV2_B . B+	SPL	-	S206	022BS-38	2	2		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	053	
022	SPIRE PSW_JFETV2_B . B-	SPL	-	S206	022BS-38	2	2		Cable S206 inner Shd also con to Pin 10 at JFP side (A3) Cable S206 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	052	
021	SPIRE PSW_JFETV2_B . SHD02	SPL	-	S206	022BS-38	2	2			CVVUCR	33	211121 J26	001	
-	Cable S206 outer Shield													
023	SPIRE PSW_JFETV3_B . B+	SPL	-	S207	022BS-38	3	3		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	041	
005	SPIRE PSW_JFETV3_B . B-	SPL	-	S207	022BS-38	3	3		Cable S207 inner Shd also con to Pin 10 at JFP side (A3) Cable S207 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	030	
004	SPIRE PSW_JFETV3_B . SHD03	SPL	-	S207	022BS-38	3	3			CVVUCR	33	211121 J26	001	
-	Cable S207 outer Shield													
006	SPIRE PSW_JFETV4_B . B+	SPL	-	S208	022BS-38	4	4		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	010	
025	SPIRE PSW_JFETV4_B . B-	SPL	-	S208	022BS-38	4	4		Cable S208 inner Shd also con to Pin 10 at JFP side (A3) Cable S208 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	011	
024	SPIRE PSW_JFETV4_B . SHD04	SPL	-	S208	022BS-38	4	4			CVVUCR	33	211121 J26	001	
-	Cable S208 outer Shield													
026	SPIRE PSW_JFETV5_B . B+	SPL	-	S209	022BS-38	5	5		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	019	
008	SPIRE PSW_JFETV5_B . B-	SPL	-	S209	022BS-38	5	5		Cable S209 inner Shd also con to Pin 10 at JFP side (A3) Cable S209 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	029	
007	SPIRE PSW_JFETV5_B . SHD05	SPL	-	S209	022BS-38	5	5			CVVUCR	33	211121 J26	001	
-	Cable S209 outer Shield													
009	SPIRE PSW_JFETV6_B . B+	SPL	-	S210	022BS-38	6	6		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	016	
028	SPIRE PSW_JFETV6_B . B-	SPL	-	S210	022BS-38	6	6		Cable S210 inner Shd also con to Pin 10 at JFP side (A3)	CVVUCR	33	211121 J26	027	
027	SPIRE PSW_JFETV6_B . SHD06	SPL	-	S210	022BS-38	6	6			CVVUCR	33	211121 J26	001	
-	Cable S210 outer Shield													

# Pin Allocation List (Harness)

**Connector:** 121210 P26

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** PSW Bias Red -DCU (C03)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
-	Cable S210 outer Shield							Cable S210 outer Shd con to CH (Faraday)					
010	SPIRE PSW_JFETV_GND_A3	SPX	-	S433	010B0-30			GND wire A3 con to cable 205-214Shd at JFP side	CVVUCR	33	211121 J26	001	
011	SPIRE PSW_Bias1/2_B . B+	SPK	-	S212	022BS-38	7		200 Ohm/3.8E-07 A	CVVUCR	33	211121 J26	040	
029	SPIRE PSW_Bias1/2_B . B-	SPK	-	S212	022BS-38	7		Cable S212 inner Shd also con Pin 10 at JFP side (A3)	CVVUCR	33	211121 J26	039	
030	SPIRE PSW_Bias1/2_B . SHD07	SPK	-	S212	022BS-38	7		Cable S212 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	001	
-	Cable S212 outer Shield												
031	SPIRE PSW_Bias3/4_B . B+	SPK	-	S213	022BS-38	8		200 Ohm/3.8E-07 A	CVVUCR	33	211121 J26	018	
012	SPIRE PSW_Bias3/4_B . B-	SPK	-	S213	022BS-38	8		Cable S213 inner Shd also con to Pin 10 at JFP side (A3)	CVVUCR	33	211121 J26	028	
013	SPIRE PSW_Bias3/4_B . SHD08	SPK	-	S213	022BS-38	8		Cable S213 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	001	
-	Cable S213 outer Shield												
014	SPIRE PSW_Bias5/6_B . B+	SPK	-	S214	022BS-38	9		200 Ohm/3.8E-07 A	CVVUCR	33	211121 J26	009	
032	SPIRE PSW_Bias5/6_B . B-	SPK	-	S214	022BS-38	9		Cable S214 inner Shd also con to Pin 10 at JFP side (A3)	CVVUCR	33	211121 J26	017	
033	SPIRE PSW_Bias5/6_B . SHD09	SPK	-	S214	022BS-38	9		Cable S214 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	001	
-	Cable S214 outer Shield												
034	SPIRE PSW_Heater_B1 . B1+	SPM	-	S215	021SS-38	10		200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	013	
015	SPIRE PSW_Heater_B1 . B1-	SPM	-	S215	021SS-38	10		Cable 215 Shd routed as GND wire B2, con to Shd 216, 217 at JFP side	CVVUCR	33	211121 J26	012	
016	SPIRE PSW_Heater_B1 . SHD10	SPM	-	S215	021SS-38	10			CVVUCR	33	211121 J26	005	
017	SPIRE PSW_Heater_B2 . B2+	SPM	-	S216	021SS-38	11		200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	021	
035	SPIRE PSW_Heater_B2 . B2-	SPM	-	S216	021SS-38	11		Cable 216 Shd routed as GND wire B2, con to SHD 215,217 at JFP side	CVVUCR	33	211121 J26	020	
036	SPIRE PSW_Heater_B2 . SHD11	SPM	-	S216	021SS-38	11			CVVUCR	33	211121 J26	005	

# Pin Allocation List (Harness)

**Connector:** 121210 P26

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** PSW Bias Red -DCU (C03)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
037	SPIRE PSW_Heater_B3 . B3+	SPM,-	-	S217	021SS-38	12		200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	031	
018	SPIRE PSW_Heater_B3 . B3-	SPM,-	-	S217	021SS-38	12		Cable 217 Shd con to Shd 215,216 at JFP side (not con to pin!)	CVVUCR	33	211121 J26	043	
036	SPIRE PSW_Heater_B3 . SHD12	SPM,-	-	S217	021SS-38	12			CVVUCR	33	211121 J26	005	
036	SPIRE PSW_HTR_GND B3	SPX,-	-	S434	010B0-30			Not a wire at JFS side, routed via Cable SHDs	CVVUCR	33	211121 J26	005	
CH	Outer Shields=Faraday Shds							Faraday Shd con to Backshell ECR0039fbc					
-	Isolation							Farady Shd insulated from S/C structure					





# Pin Allocation List (Harness)

**Connector:** 121210 P28

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** PMW/PLW Bias Red -DCU (C03)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal	Pos.	Ch. ID	Wiring						
020	SPIRE PMW_JFETV1_B . B+	SPH.-	-	S219	022BS-38	1	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	007	
002	SPIRE PMW_JFETV1_B . B-	SPH.-	-	S219	022BS-38	1	Cable S219 inner Shd also con to Pin 28 at JFP side (A4)	CVVUCR	33	211121 J26	014	
001	SPIRE PMW_JFETV1_B . SHD01	SPH.-	-	S219	022BS-38	1	Cable S219 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	006	
-	Cable S219 outer Shield											
003	SPIRE PMW_JFETV2_B . B+	SPH.-	-	S220	022BS-38	2	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	024	
022	SPIRE PMW_JFETV2_B . B-	SPH.-	-	S220	022BS-38	2	Cable S220 inner Shd also con to Pin 28 at JFP side (A4)	CVVUCR	33	211121 J26	035	
021	SPIRE PMW_JFETV2_B . SHD02	SPH.-	-	S220	022BS-38	2	Cable S220 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	006	
-	Cable S220 outer Shield											
023	SPIRE PMW_JFETV3_B . B+	SPH.-	-	S221	022BS-38	3	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	023	
005	SPIRE PMW_JFETV3_B . B-	SPH.-	-	S221	022BS-38	3	Cable S221 inner Shd also con to Pin 28 at JFP side (A4)	CVVUCR	33	211121 J26	034	
004	SPIRE PMW_JFETV3_B . SHD03	SPH.-	-	S221	022BS-38	3	Cable S221 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	006	
-	Cable S221 outer Shield											
006	SPIRE PMW_JFETV4_B . B+	SPH.-	-	S222	022BS-38	4	100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	033	
025	SPIRE PMW_JFETV4_B . B-	SPH.-	-	S222	022BS-38	4	Cable S222 inner Shd also con to Pin 28 at JFP side (A4)	CVVUCR	33	211121 J26	045	
024	SPIRE PMW_JFETV4_B . SHD04	SPH.-	-	S222	022BS-38	4	Cable S222 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	006	
-	Cable S222 outer Shield											
026	SPIRE PMW_Bias1/2_B . B+	SPG.-	-	S223	022BS-38	5	200 Ohm/3.8E-07 A	CVVUCR	33	211121 J26	044	
008	SPIRE PMW_Bias1/2_B . B-	SPG.-	-	S223	022BS-38	5	Cable S223 inner Shd also con to Pin 28 at JFP side (A4)	CVVUCR	33	211121 J26	056	
007	SPIRE PMW_Bias1/2_B . SHD05	SPG.-	-	S223	022BS-38	5	Cable S223 outer Shd con to CH (Faraday)	CVVUCR	33	211121 J26	006	
-	Cable S223 outer Shield											
027	SPIRE PMW_Bias3/4_B . B+	SPG.-	-	S224	022BS-38	6	200 Ohm/3.8E-07 A	CVVUCR	33	211121 J26	022	
009	SPIRE PMW_Bias3/4_B . B-	SPG.-	-	S224	022BS-38	6	Cable S224 inner Shd also con to Pin 28 at JFP side (A4)	CVVUCR	33	211121 J26	032	
028	SPIRE PMW_Bias3/4_B . SHD06	SPG.-	-	S224	022BS-38	6	Cable S224 outer Shd also con to Pin 28 at JFP side (A4)	CVVUCR	33	211121 J26	006	

# Pin Allocation List (Harness)

**Connector:** 121210 P28

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** PMW/PLW Bias Red -DCU (C03)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Pos.			Shd	Cable Twist						
-	Cable S224 outer Shield							Cable S224 outer Shd con to CH (Faraday)					
028	SPIRE PMW_GND A4	SPX.-	-	S438	010B0-30			PMW Gnd A4 con to Cable 219 - 224 Shd	CVVUCR	33	211121 J26	006	
029	SPIRE PMW_Heater_B1 . B1+	SPJ.-	-	S226	021SS-38	7		200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	055	
010	SPIRE PMW_Heater_B1 . B1-	SPJ.-	-	S226	021SS-38	7			CVVUCR	33	211121 J26	066	
011	SPIRE PMW_Heater_B1 . SHD07	SPJ.-	-	S226	021SS-38	7		Cable 226Shd routed as GND wire B4,con to 227,228 Shd at JFP side	CVVUCR	33	211121 J26	065	
012	SPIRE PMW_Heater_B2 . B2+	SPJ.-	-	S227	021SS-38	8		200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	067	
030	SPIRE PMW_Heater_B2 . B2-	SPJ.-	-	S227	021SS-38	8			CVVUCR	33	211121 J26	078	
011	SPIRE PMW_Heater_B2 . SHD08	SPJ.-	-	S227	021SS-38	8		Cable 227Shd con to 226,228 Shd (not to pin!)	CVVUCR	33	211121 J26	065	
013	SPIRE PLW_Heater_B . B+	SPF.-	-	S228	021SS-38	9		200 Ohm/3.8E-03 A	CVVUCR	33	211121 J26	090	
031	SPIRE PLW_Heater_B . B-	SPF.-	-	S228	021SS-38	9			CVVUCR	33	211121 J26	079	
011	SPIRE PLW_Heater_B . SHD09	SPF.-	-	S228	021SS-38	9		Cable 228Shd con to 226,227 Shd (not to pin!)	CVVUCR	33	211121 J26	065	
011	SPIRE HTR_GND B4	SPX.-	-	S439	010B0-30			Not a wire at JFS, routed via Cable SHDs	CVVUCR	33	211121 J26	065	
014	SPIRE PLW_JFETV1_B . B+	SPE.-	-	S229	022BS-38	10		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	070	
032	SPIRE PLW_JFETV1_B . B-	SPE.-	-	S229	022BS-38	10			CVVUCR	33	211121 J26	081	
033	SPIRE PLW_JFETV1_B . SHD10	SPE.-	-	S229	022BS-38	10		Cable S229 inner Shd also con to Pin 19 at JFP side (C4)	CVVUCR	33	211121 J26	091	
-	Cable S229 outer Shield							Cable S229 outer Shd con to CH (Faraday)					
034	SPIRE PLW_JFETV2_B . B+	SPE.-	-	S230	022BS-38	11		100 Ohm/5.0E-03 A	CVVUCR	33	211121 J26	069	
015	SPIRE PLW_JFETV2_B . B-	SPE.-	-	S230	022BS-38	11			CVVUCR	33	211121 J26	080	
016	SPIRE PLW_JFETV2_B . SHD11	SPE.-	-	S230	022BS-38	11		Cable S230 inner Shd also con to Pin 19 at JFP side (C4)	CVVUCR	33	211121 J26	091	



# Pin Allocation List (Harness)

Connector: 121210 P28

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: PMW/PLW Bias Red -DCU (C03)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
-	Cable S230 outer Shield							Cable S230 outer Shd con to CH (Faraday)					
017	SPIRE PLW_Bias1_B . B+	SPD.-	-	S231	022BS-38	12		200 Ohm/1.9E-07 A	CVVUCR	33	211121 J26	068	
035	SPIRE PLW_Bias1_B . B-	SPD.-	-	S231	022BS-38	12			CVVUCR	33	211121 J26	057	
036	SPIRE PLW_Bias1_B . SHD12	SPD.-	-	S231	022BS-38	12		Cable S231 inner Shd also con to Pin 19 at JFP side (C4)	CVVUCR	33	211121 J26	091	
-	Cable S231 outer Shield												
037	SPIRE PLW_Bias2_B . B+	SPD.-	-	S232	022BS-38	13		200 Ohm/1.9E-07 A	CVVUCR	33	211121 J26	058	
018	SPIRE PLW_Bias2_B . B-	SPD.-	-	S232	022BS-38	13			CVVUCR	33	211121 J26	046	
019	SPIRE PLW_Bias2_B . SHD13	SPD.-	-	S232	022BS-38	13		Cable S232 inner Shd also con to Pin 19 at JFP side (C4)	CVVUCR	33	211121 J26	091	
-	Cable S232 outer Shield							Cable S232 outer Shd con to CH (Faraday)					
019	SPIRE PLW_GND C4	SPX.-	-	S440	010B0-30			PLW GND Wire C4 con to cable 229 to 232 Shd	CVVUCR	33	211121 J26	091	
-	Outer Shields=Faraday Shds												
-	Isolation							Faraday Shd con to Backshell ECR0039tbc					
-								Faraday Shd insulated from S/C structure					





# Pin Allocation List

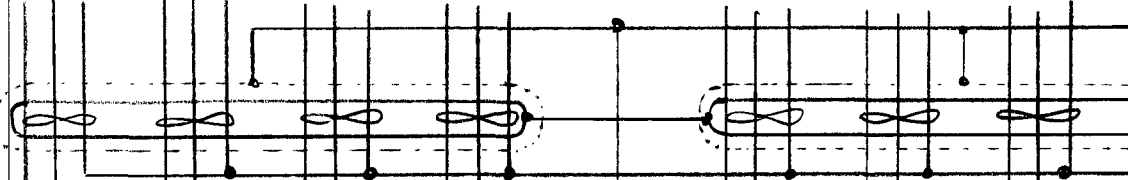
(Harness)

**Connector:** 121210 P24  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP12 (C4)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
001	SPIRE PMW Ch01 to 04 . 1+	SPB.-	-	S067	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	026	
014	SPIRE PMW Ch01 to 04 . 1-	SPB.-	-	S067	12AXD-38	1				PMW-F10	CVVUCR	33	211121 J22	037	
013	SPIRE PMW Ch01 to 04 . 1grnd	SPB.-	-	S067	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
002	SPIRE PMW Ch01 to 04 . 2+	SPB.-	-	S067	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	038	
015	SPIRE PMW Ch01 to 04 . 2-	SPB.-	-	S067	12AXD-38	1				PMW-E11	CVVUCR	33	211121 J22	049	
013	SPIRE PMW Ch01 to 04 . 2grnd	SPB.-	-	S067	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
003	SPIRE PMW Ch01 to 04 . 3+	SPB.-	-	S067	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	048	
016	SPIRE PMW Ch01 to 04 . 3-	SPB.-	-	S067	12AXD-38	1				PMW-G11	CVVUCR	33	211121 J22	060	
013	SPIRE PMW Ch01 to 04 . 3grnd	SPB.-	-	S067	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
004	SPIRE PMW Ch01 to 04 . 4+	SPB.-	-	S067	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	059	
017	SPIRE PMW Ch01 to 04 . 4-	SPB.-	-	S067	12AXD-38	1				PMW-F11	CVVUCR	33	211121 J22	071	
013	SPIRE PMW Ch01 to 04 . 4grnd	SPB.-	-	S067	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
013	SPIRE PMW Ch01 to 04 . SHD01	SPB.-	-	S067	12AXD-38	1				Cable S067 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
CH	S067 12 AXD Outer Shield									Cable S067 outer Shd con to CH (Faraday)					
005	SPIRE PMW Ch05 to 08 . 5+	SPB.-	-	S068	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	050	
018	SPIRE PMW Ch05 to 08 . 5-	SPB.-	-	S068	12AXD-38	2				PMW-E12	CVVUCR	33	211121 J22	061	
013	SPIRE PMW Ch05 to 08 . 5grnd	SPB.-	-	S068	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
006	SPIRE PMW Ch05 to 08 . 6+	SPB.-	-	S068	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	062	
019	SPIRE PMW Ch05 to 08 . 6-	SPB.-	-	S068	12AXD-38	2				PMW-G12	CVVUCR	33	211121 J22	051	
013	SPIRE PMW Ch05 to 08 . 6grnd	SPB.-	-	S068	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
020	SPIRE PMW Ch05 to 08 . 7+	SPB.-	-	S068	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	063	
007	SPIRE PMW Ch05 to 08 . 7-	SPB.-	-	S068	12AXD-38	2				PMWF12	CVVUCR	33	211121 J22	075	
013	SPIRE PMW Ch05 to 08 . 7grnd	SPB.-	-	S068	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	



# Pin Allocation List (Harness)

**Connector:** 121210 P24

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP12 (C4)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDML2L-25S-6C3-.630

**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal	Pos.	Ch. ID	Wiring						
021	SPIRE PMW Ch05 to 08 . 8+	SPB.-	-	S068	12AXD-38	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	074	
008	SPIRE PMW Ch05 to 08 . 8-	SPB.-	-	S068	12AXD-38	2	PMG-G13	CVVUCR	33	211121 J22	073	
013	SPIRE PMW Ch05 to 08 . 8gnd	SPB.-	-	S068	12AXD-38	2	12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
013	SPIRE PMW Ch05 to 08 . SHD02	SPB.-	-	S068	12AXD-38	2	Cable S068 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
CH	S068 12 AXD Outer Shield						Cable S068 outer Shd con to CH (Faraday)					
022	SPIRE PMW Ch09 to 12 . 9+	SPB.-	-	S069	12AXD-38	3		CVVUCR	33	211121 J22	083	
009	SPIRE PMW Ch09 to 12 . 9-	SPB.-	-	S069	12AXD-38	3	PMW-DK2	CVVUCR	33	211121 J22	072	
013	SPIRE PMW Ch09 to 12 . 9gnd	SPB.-	-	S069	12AXD-38	3	12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
023	SPIRE PMW Ch09 to 12 . 10+	SPB.-	-	S069	12AXD-38	3	!!!!!! Terminated at P side !!!!!	CVVUCR	33	211121 J22	095	
010	SPIRE PMW Ch09 to 12 . 10-	SPB.-	-	S069	12AXD-38	3	SPARE Terminated at P side !!!	CVVUCR	33	211121 J22	084	
013	SPIRE PMW Ch09 to 12 . 10gnd	SPB.-	-	S069	12AXD-38	3	12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
024	SPIRE PMW Ch09 to 12 . 11+	SPB.-	-	S069	12AXD-38	3	!!!!!! Terminated at P side !!!!!	CVVUCR	33	211121 J22	096	
011	SPIRE PMW Ch09 to 12 . 11-	SPB.-	-	S069	12AXD-38	3	SPARE Terminated at P side !!!	CVVUCR	33	211121 J22	085	
013	SPIRE PMW Ch09 to 12 . 11gnd	SPB.-	-	S069	12AXD-38	3	12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J22	036	
025	SPIRE PMW Ch09 to 12 . 12+	SPB.-	-	S069	12AXD-38	3	!!!!!! Terminated at P side !!!!!	CVVUCR	33	211121 J22	106	
012	SPIRE PMW Ch09 to 12 . 12-	SPB.-	-	S069	12AXD-38	3	SPARE Terminated at P side !!!	CVVUCR	33	211121 J22	107	
013	SPIRE PMW Ch09 to 12 . 12gnd	SPB.-	-	S069	12AXD-38	3	12 AX gnd daisy ch to Pin 13	CVVUCR	33	211121 J22	036	
013	SPIRE PMW Ch09 to 12 . SHD03	SPB.-	-	S069	12AXD-38	3	Cable S069 inner Shd daisy ch to Pin 13	CVVUCR	33	211121 J22	036	
CH	S069 12 AXD Outer Shield						Cable S069 outer Shd con to CH (Faraday)					
013	SPIRE PMW B04 GND WIRE A1	SPX.-	-	S441	010B0-30		Not a Wire in cold !! routed via Cable SHDs to CWV FTHs	CVVUCR	33	211121 J22	036	

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P24

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP12 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3--630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
CH	Outer Shields=Faraday Shds									Faraday Shds con to Backshell ECR 0039 tbc					
-	Isolation									Harness Branch to be isolated from S/C Structure					
-															







# Pin Allocation List (Harness)

Connector: 121210 P23

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP12 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.												
001	SPIRE PMW Ch 13 to 16 . 13+	SPB.-	-	S072	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	086	
014	SPIRE PMW Ch 13 to 16 . 13-	SPB.-	-	S072	12AXD-38	1				PMW-E7	CVVUCR	33	211121 J22	087	
013	SPIRE PMW Ch 13 to 16 . 13gnd	SPB.-	-	S072	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
002	SPIRE PMW Ch 13 to 16 . 14+	SPB.-	-	S072	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	097	
015	SPIRE PMW Ch 13 to 16 . 14-	SPB.-	-	S072	12AXD-38	1				PMW-D7	CVVUCR	33	211121 J22	098	
013	SPIRE PMW Ch 13 to 16 . 14gnd	SPB.-	-	S072	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
003	SPIRE PMW Ch 13 to 16 . 15+	SPB.-	-	S072	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	108	
016	SPIRE PMW Ch 13 to 16 . 15-	SPB.-	-	S072	12AXD-38	1				PMW-F7	CVVUCR	33	211121 J22	109	
013	SPIRE PMW Ch 13 to 16 . 15gnd	SPB.-	-	S072	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
004	SPIRE PMW Ch 13 to 16 . 16+	SPB.-	-	S072	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	116	
017	SPIRE PMW Ch 13 to 16 . 16-	SPB.-	-	S072	12AXD-38	1				PMW-E8	CVVUCR	33	211121 J22	117	
013	SPIRE PMW Ch 13 to 16 . 16gnd	SPB.-	-	S072	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
013	SPIRE PMW Ch 13 to 16 . SHD01	SPB.-	-	S072	12AXD-38	1				Cable S072 inner Shd daisy ch to Pin 13	CVVUCR	33	211121 J22	128	
CH	S072 12 AXD Outer Shield									Cable S072 outer Shd con to CH (Faraday)					
005	SPIRE PMW Ch17 to 19 . 17+	SPB.-	-	S073	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	055	
018	SPIRE PMW Ch17 to 19 . 17-	SPB.-	-	S073	12AXD-38	2				PMW-G8	CVVUCR	33	211121 J22	066	
013	SPIRE PMW Ch17 to 19 . 17gnd	SPB.-	-	S073	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
006	SPIRE PMW Ch17 to 19 . 18+	SPB.-	-	S073	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	067	
019	SPIRE PMW Ch17 to 19 . 18-	SPB.-	-	S073	12AXD-38	2				PMW-F8	CVVUCR	33	211121 J22	078	
013	SPIRE PMW Ch17 to 19 . 18gnd	SPB.-	-	S073	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
020	SPIRE PMW Ch17 to 19 . 19+	SPB.-	-	S073	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	076	
007	SPIRE PMW Ch17 to 19 . 19-	SPB.-	-	S073	12AXD-38	2				PMW-E9	CVVUCR	33	211121 J22	077	
013	SPIRE PMW Ch17 to 19 . 19gnd	SPB.-	-	S073	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	

# Pin Allocation List (Harness)

Project: **HERSCHEL**

Connector: 121210 P23

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP12 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal	Pos.	Ch. ID	Wiring						
021	SPIRE PMW Ch 20 . 20+	SPB.-	-	S73A	12AXD-38	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	088	
008	SPIRE PMW Ch 20 . 20-	SPB.-	-	S73A	12AXD-38	2	PMW-G9	CVVUCR	33	211121 J22	089	
013	SPIRE PMW Ch 20 . 20gnd	SPB.-	-	S73A	12AXD-38	2	12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
013	SPIRE PMW Ch17 to 19 . SHD02	SHD	SPB.-	S073	12AXD-38	2	Cable S073 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
CH	S073 12 AXD Outer Shield						Cable S073 outer Shd con to CH (Faraday)					
022	SPIRE PMW Ch21 to 24 . 21+	SPB.-	-	S074	12AXD-38	3	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	099	
009	SPIRE PMW Ch21 to 24 . 21-	SPB.-	-	S074	12AXD-38	3	PMW-D9	CVVUCR	33	211121 J22	100	
013	SPIRE PMW Ch21 to 24 . 21gnd	SPB.-	-	S074	12AXD-38	3	12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
023	SPIRE PMW Ch21 to 24 . 22+	SPB.-	-	S074	12AXD-38	3	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	110	
010	SPIRE PMW Ch21 to 24 . 22-	SPB.-	-	S074	12AXD-38	3	PMW-F9	CVVUCR	33	211121 J22	111	
013	SPIRE PMW Ch21 to 24 . 22gnd	SPB.-	-	S074	12AXD-38	3	12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
024	SPIRE PMW Ch21 to 24 . 23+	SPB.-	-	S074	12AXD-38	3	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	118	
011	SPIRE PMW Ch21 to 24 . 23-	SPB.-	-	S074	12AXD-38	3	PMW-E10	CVVUCR	33	211121 J22	119	
013	SPIRE PMW Ch21 to 24 . 23gnd	SPB.-	-	S074	12AXD-38	3	12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
025	SPIRE PMW Ch21 to 24 . 24+	SPB.-	-	S074	12AXD-38	3	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	112	
012	SPIRE PMW Ch21 to 24 . 24-	SPB.-	-	S074	12AXD-38	3	PMW-G10	CVVUCR	33	211121 J22	120	
013	SPIRE PMW Ch21 to 24 . 24gnd	SPB.-	-	S074	12AXD-38	3	12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
013	SPIRE PMW Ch21 to 24 . SHD03	SPB.-	-	S074	12AXD-38	3	Cable S074 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J22	128	
CH	S074 12 AXD Outer Shield						Cable S074 outer Shd con to CH (Faraday)					
013	SPIRE PMW B04 GND Wire A2	SPX.-	-	S442	010B0-30		Not a Wire in cold !!! Routed via Cable SHDs to CVV FTHs	CVVUCR	33	211121 J22	128	

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P23

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP12 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
-	CH Outer Shields=Faraday Shds						Faraday Shds con to Backshell ECR 0039 tbc					
-	Isolation						Harness Branch to be isolated from S/C structure					
-												





# Pin Allocation List (Harness)

Connector: 121210 P22  
Item: HSJFP  
EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP11 (C4)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3--630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
001	SPIRE PMW Ch25 to 28 . 25+	SPB.-	-	S076	12AXD-38	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	090	
014	SPIRE PMW Ch25 to 28 . 25-	SPB.-	-	S076	12AXD-38	1	PMW-C4	CVVUCR	33	211121 J22	079	
013	SPIRE PMW Ch25 to 28 . 25gnd	SPB.-	-	S076	12AXD-38	1	12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
002	SPIRE PMW Ch25 to 28 . 26+	SPB.-	-	S076	12AXD-38	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	102	
015	SPIRE PMW Ch25 to 28 . 26-	SPB.-	-	S076	12AXD-38	1	PMW-B3	CVVUCR	33	211121 J22	101	
013	SPIRE PMW Ch25 to 28 . 26gnd	SPB.-	-	S076	12AXD-38	1	12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
003	SPIRE PMW Ch25 to 28 . 27+	SPB.-	-	S076	12AXD-38	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	092	
016	SPIRE PMW Ch25 to 28 . 27-	SPB.-	-	S076	12AXD-38	1	PMW-C3	CVVUCR	33	211121 J22	091	
013	SPIRE PMW Ch25 to 28 . 27gnd	SPB.-	-	S076	12AXD-38	1	12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
004	SPIRE PMW Ch25 to 28 . 28+	SPB.-	-	S076	12AXD-38	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	103	
017	SPIRE PMW Ch25 to 28 . 28-	SPB.-	-	S076	12AXD-38	1	PMW-B2	CVVUCR	33	211121 J22	113	
013	SPIRE PMW Ch25 to 28 . 28gnd	SPB.-	-	S076	12AXD-38	1	12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
013	SPIRE PMW Ch25 to 28 . SHD01	SPB.-	-	S076	12AXD-38	1	Cable S076 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
CH	S076 12 AXD Outer Shield						Cable S076 outer Shd con to CH (Faraday)					
005	SPIRE PMW Ch29 to 32 . 29+	SPB.-	-	S077	12AXD-38	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	058	
018	SPIRE PMW Ch29 to 32 . 29-	SPB.-	-	S077	12AXD-38	2	PMW-D2	CVVUCR	33	211121 J22	046	
013	SPIRE PMW Ch29 to 32 . 29gnd	SPB.-	-	S077	12AXD-38	2	12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
006	SPIRE PMW Ch29 to 32 . 30+	SPB.-	-	S077	12AXD-38	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	068	
019	SPIRE PMW Ch29 to 32 . 30-	SPB.-	-	S077	12AXD-38	2	PMW-A3	CVVUCR	33	211121 J22	057	
013	SPIRE PMW Ch29 to 32 . 30gnd	SPB.-	-	S077	12AXD-38	2	12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
020	SPIRE PMW Ch29 to 32 . 31+	SPB.-	-	S077	12AXD-38	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	069	
007	SPIRE PMW Ch29 to 32 . 31-	SPB.-	-	S077	12AXD-38	2	PMW-A2	CVVUCR	33	211121 J22	080	
013	SPIRE PMW Ch29 to 32 . 31gnd	SPB.-	-	S077	12AXD-38	2	12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 3)

Connector: 121210 P22

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP11 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
			Wiring	Shd	Cable						
021	SPIRE PMW Ch29 to 32 . 32+	SPB.- -	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	070	
008	SPIRE PMW Ch29 to 32 . 32-	SPB.- -	12AXD-38	2		PMW-C2	CVVUCR	33	211121 J22	081	
013	SPIRE PMW Ch29 to 32 . 32gnd	SPB.- -	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
013	SPIRE PMW Ch29 to 32 . SHD02	SPB.- -	12AXD-38	2		Cable S077 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
CH	S077 12 AXD Outer Shield					Cable S077 outer Shd con to CH (Faraday)					
022	SPIRE PMW Ch33 to 35 . 33+	SPB.- -	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	023	
009	SPIRE PMW Ch33 to 35 . 33-	SPB.- -	12AXD-38	3		PMW-B1	CVVUCR	33	211121 J22	034	
013	SPIRE PMW Ch33 to 35 . 33gnd	SPB.- -	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
023	SPIRE PMW Ch33 to 35 . 34+	SPB.- -	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	033	
010	SPIRE PMW Ch33 to 35 . 34-	SPB.- -	12AXD-38	3		PMW-A1	CVVUCR	33	211121 J22	045	
013	SPIRE PMW Ch33 to 35 . 34gnd	SPB.- -	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
024	SPIRE PMW Ch33 to 35 . 35+	SPB.- -	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	044	
011	SPIRE PMW Ch33 to 35 . 35-	SPB.- -	12AXD-38	3		PMW-DK1	CVVUCR	33	211121 J22	056	
013	SPIRE PMW Ch33 to 35 . 35gnd	SPB.- -	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
025	SPIRE PMW Ch36 . 36+	SPB.- -	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J22	022	
012	SPIRE PMW Ch36 . 36-	SPB.- -	12AXD-38	3		PMW-C1	CVVUCR	33	211121 J22	032	
013	SPIRE PMW Ch36 . 36gnd	SPB.- -	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22	047	
013	SPIRE PMW Ch36 . SHD03	SPB.- -	12AXD-38	3		Cable S078 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J22		
CH	S078/78A 12 AXD Outer Shield					Cable S078 outer Shd con to CH (Faraday)					
13	SPIRE PMW B04 GND Wire A3	SPX.- -	01050-30			Not a Wire in cold !! Routed via Cable SHDs to CVV FTths	CVVUCR	33	211121 J22	047	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P22

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP11 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
-	CH							Farady Shds con to Backshell ECR0039 tbc					
-	Outer Shields=Faraday Shds							Harness Branch to be isolated from S/C structure					
-	Isolation												
-													







# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P21

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP11 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PMW Ch37 to 40 . 37+	SPB.-	-	S083	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J22	013	
014	SPIRE PMW Ch37 to 40 . 37-	SPB.-	-	S083	12AXD-38	1		PMW-A7	CWUCR	33	211121 J22	012	
013	SPIRE PMW Ch37 to 40 . 37gnd	SPB.-	-	S083	12AXD-38	1		12 AX gnd daisy ch to Pin 13 (A4)	CWUCR	33	211121 J22	004	
002	SPIRE PMW Ch37 to 40 . 38+	SPB.-	-	S083	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J22	021	
015	SPIRE PMW Ch37 to 40 . 38-	SPB.-	-	S083	12AXD-38	1		PMW-A6	CWUCR	33	211121 J22	020	
013	SPIRE PMW Ch37 to 40 . 38gnd	SPB.-	-	S083	12AXD-38	1		12 AX gnd daisy ch to Pin 13 (A4)	CWUCR	33	211121 J22	004	
003	SPIRE PMW Ch37 to 40 . 39+	SPB.-	-	S083	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J22	031	
016	SPIRE PMW Ch37 to 40 . 39-	SPB.-	-	S083	12AXD-38	1		PMW-B6	CWUCR	33	211121 J22	043	
013	SPIRE PMW Ch37 to 40 . 39gnd	SPB.-	-	S083	12AXD-38	1		12 AX gnd daisy ch to Pin 13 (A4)	CWUCR	33	211121 J22	004	
004	SPIRE PMW Ch37 to 40 . 40+	SPB.-	-	S083	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J22	042	
017	SPIRE PMW Ch37 to 40 . 40-	SPB.-	-	S083	12AXD-38	1		PMW-C7	CWUCR	33	211121 J22	054	
013	SPIRE PMW Ch37 to 40 . 40gnd	SPB.-	-	S083	12AXD-38	1		12 AX gnd daisy ch to Pin 13 (A4)	CWUCR	33	211121 J22	004	
013	SPIRE PMW Ch37 to 40 . SHD01	SPB.-	-	S083	12AXD-38	1		Cable S083 inner Shd daisy ch to Pin 13 (A4)	CWUCR	33	211121 J22	004	
CH	S08312AXD Outer Shield							Cable S083 outer Shd con to CH (Faraday)					
005	SPIRE PMW Ch41 to 44 . 41+	SPB.-	-	S081	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J22	010	
018	SPIRE PMW Ch41 to 44 . 41-	SPB.-	-	S081	12AXD-38	2		PMW-A5	CWUCR	33	211121 J22	011	
013	SPIRE PMW Ch41 to 44 . 41gnd	SPB.-	-	S081	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A4)	CWUCR	33	211121 J22	004	
006	SPIRE PMW Ch41 to 44 . 42+	SPB.-	-	S081	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J22	019	
019	SPIRE PMW Ch41 to 44 . 42-	SPB.-	-	S081	12AXD-38	2		PMW-B5	CWUCR	33	211121 J22	029	
013	SPIRE PMW Ch41 to 44 . 42gnd	SPB.-	-	S081	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A4)	CWUCR	33	211121 J22	004	
020	SPIRE PMW Ch41 to 44 . 43+	SPB.-	-	S081	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J22	041	
007	SPIRE PMW Ch41 to 44 . 43-	SPB.-	-	S081	12AXD-38	2		PMW-C6	CWUCR	33	211121 J22	030	
013	SPIRE PMW Ch41 to 44 . 43gnd	SPB.-	-	S081	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A4)	CWUCR	33	211121 J22	004	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 3)

Connector: 121210 P21

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP11 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PMW Ch41 to 44 . 44+	SPB.-	-	S081	12AXD-38	2		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J22	053	
008	SPIRE PMW Ch41 to 44 . 44-	SPB.-	-	S081	12AXD-38	2		PMW-D6	CVUUCR	33	211121 J22	052	
013	SPIRE PMW Ch41 to 44 . 44gnd	SPB.-	-	S081	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J22	004	
013	SPIRE PMW Ch41 to 44 . SHD02	SPB.-	-	S081	12AXD-38	2		Cable S081 inner Shd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J22	004	
CH	S081 12 AXD Outer Shield							Cable S081 outer Shd con to CH (Faraday)					
022	SPIRE PMW Ch45 to 48 . 45+	SPB.-	-	S082	12AXD-38	3		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J22	009	
009	SPIRE PMW Ch45 to 48 . 45-	SPB.-	-	S082	12AXD-38	3		PMW-B4	CVUUCR	33	211121 J22	017	
013	SPIRE PMW Ch45 to 48 . 45gnd	SPB.-	-	S082	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J22	004	
023	SPIRE PMW Ch45 to 48 . 46+	SPB.-	-	S082	12AXD-38	3		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J22	018	
010	SPIRE PMW Ch45 to 48 . 46-	SPB.-	-	S082	12AXD-38	3		PMW-C5	CVUUCR	33	211121 J22	028	
013	SPIRE PMW Ch45 to 48 . 46gnd	SPB.-	-	S082	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J22	004	
024	SPIRE PMW Ch45 to 48 . 47+	SPB.-	-	S082	12AXD-38	3		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J22	016	
011	SPIRE PMW Ch45 to 48 . 47-	SPB.-	-	S082	12AXD-38	3		PMW-D4	CVUUCR	33	211121 J22	027	
013	SPIRE PMW Ch45 to 48 . 47gnd	SPB.-	-	S082	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J22	004	
025	SPIRE PMW Ch45 to 48 . 48+	SPB.-	-	S082	12AXD-38	3		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J22	040	
012	SPIRE PMW Ch45 to 48 . 48-	SPB.-	-	S082	12AXD-38	3		PMW-A4	CVUUCR	33	211121 J22	039	
013	SPIRE PMW Ch45 to 48 . 48gnd	SPB.-	-	S082	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J22	004	
013	SPIRE PMW Ch45 to 48 . SHD03	SPB.-	-	S082	12AXD-38	3		Cable S082 inner Shd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J22	004	
CH	S082 12 AXD Outer Shield							Cable S082 outer Shd con to CH (Faraday)					
13	SPIRE PMW B04 GND Wire A4	SPX.-	-	S444	010B0-30			Not a Wire in cold !! Routed via Cable SHDs to CVV FTHs	CVUUCR	33	211121 J22	004	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P21

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP11 (C4)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3--630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
-	CH Outer Shields=Faraday Shds						Faraday Shds con to Backshell ECR0039 tbc					
-	Isolation						Harness Branch to be isolated from S/C structure					
-												





# Pin Allocation List (Harness)

Connector: 121210 P20

Item: HSJFP

For wiring Schematics  
See SH-CS-04 HSJFP P20

Function: SPIRE Bolom. Sign. from HSJFP10 (C5)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

EMC-Category: 2C/Sig H in Cryostat

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
001	SPIRE PMW Ch37-40 . 37+	SPB.-	-	S099	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	013	
014	SPIRE PMW Ch37-40 . 37-	SPB.-	-	S099	12AXD-38	1				PMW-F3	CVVUCR	33	211121 J23	012	
013	SPIRE PMW Ch37-40 . 37gnd	SPB.-	-	S099	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J23	004	
002	SPIRE PMW Ch37-40 . 38+	SPB.-	-	S099	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	021	
015	SPIRE PMW Ch37-40 . 38-	SPB.-	-	S099	12AXD-38	1				PMW-G4	CVVUCR	33	211121 J23	020	
013	SPIRE PMW Ch37-40 . 38gnd	SPB.-	-	S099	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J23	004	
003	SPIRE PMW Ch37-40 . 39+	SPB.-	-	S099	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	031	
016	SPIRE PMW Ch37-40 . 39-	SPB.-	-	S099	12AXD-38	1				PMW-E4	CVVUCR	33	211121 J23	043	
013	SPIRE PMW Ch37-40 . 39gnd	SPB.-	-	S099	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J23	004	
004	SPIRE PMW Ch37-40 . 40+	SPB.-	-	S099	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	042	
017	SPIRE PMW Ch37-40 . 40-	SPB.-	-	S099	12AXD-38	1				PMW-F4	CVVUCR	33	211121 J23	054	
013	SPIRE PMW Ch37-40 . 40gnd	SPB.-	-	S099	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J23	004	
013	SPIRE PMW Ch37-40 . SHD01	SPB.-	-	S099	12AXD-38	1				Cable S099 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J23	004	
-	S099 12AXD Outer Shield									Cable S099 outer Shd con to CH (Faraday)					
005	SPIRE PMW Ch41-44 . 41+	SPB.-	-	S100	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	010	
018	SPIRE PMW Ch41-44 . 41-	SPB.-	-	S100	12AXD-38	2				PMW-E5	CVVUCR	33	211121 J23	011	
013	SPIRE PMW Ch41-44 . 41gnd	SPB.-	-	S100	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J23	004	
006	SPIRE PMW Ch41-44 . 42+	SPB.-	-	S100	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	019	
019	SPIRE PMW Ch41-44 . 42-	SPB.-	-	S100	12AXD-38	2				PMW-D5	CVVUCR	33	211121 J23	029	
013	SPIRE PMW Ch41-44 . 42gnd	SPB.-	-	S100	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J23	004	
020	SPIRE PMW Ch41-44 . 43+	SPB.-	-	S100	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	041	
007	SPIRE PMW Ch41-44 . 43-	SPB.-	-	S100	12AXD-38	2				PMW-F5	CVVUCR	33	211121 J23	030	
013	SPIRE PMW Ch41-44 . 43gnd	SPB.-	-	S100	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J23	004	



**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 3)

**Connector:** 121210 P20  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP10 (C5)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PMW Ch41-44 . 44+	SPB.-	-	S100	12AXD-38	2		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J23	053	
008	SPIRE PMW Ch41-44 . 44-	SPB.-	-	S100	12AXD-38	2		PMW-G5	CVUUCR	33	211121 J23	052	
013	SPIRE PMW Ch41-44 . 44gnd	SPB.-	-	S100	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J23	004	
013	SPIRE PMW Ch41-44 . SHD02	SPB.-	-	S100	12AXD-38	2		Cable S100 inner Shd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J23	004	
-	S100 12AXD Outer Shield							Cable S100 outer Shd con to CH (Faraday)					
022	SPIRE PMW Ch45-48 . 45+	SPB.-	-	S101	12AXD-38	3		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J23	009	
009	SPIRE PMW Ch45-48 . 45-	SPB.-	-	S101	12AXD-38	3		PMW-E6	CVUUCR	33	211121 J23	017	
013	SPIRE PMW Ch45-48 . 45gnd	SPB.-	-	S101	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J23	004	
023	SPIRE PMW Ch45-48 . 46+	SPB.-	-	S101	12AXD-38	3		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J23	018	
010	SPIRE PMW Ch45-48 . 46-	SPB.-	-	S101	12AXD-38	3		PMW-G6	CVUUCR	33	211121 J23	028	
013	SPIRE PMW Ch45-48 . 46gnd	SPB.-	-	S101	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J23	004	
024	SPIRE PMW Ch45-48 . 47+	SPB.-	-	S101	12AXD-38	3		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J23	016	
011	SPIRE PMW Ch45-48 . 47-	SPB.-	-	S101	12AXD-38	3		PMW-F6	CVUUCR	33	211121 J23	027	
013	SPIRE PMW Ch45-48 . 47gnd	SPB.-	-	S101	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J23	004	
025	SPIRE PMW Ch45-48 . 48+	SPB.-	-	S101	12AXD-38	3		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J23	040	
012	SPIRE PMW Ch45-48 . 48-	SPB.-	-	S101	12AXD-38	3		PMW-G7	CVUUCR	33	211121 J23	039	
013	SPIRE PMW Ch45-48 . 48gnd	SPB.-	-	S101	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J23	004	
013	SPIRE PMW Ch45-48 . SHD03	SPB.-	-	S101	12AXD-38	3		Cable S101 inner Shd daisy ch to Pin 13 (A4)	CVUUCR	33	211121 J23	004	
-	S101 12AXD Outer Shield							Cable S101 outer Shd con to CH (Faraday)					
013	SPIRE PMW B05 GND WIRE A4	SPX.-	-	S454	010B0-30			Not a Wire in Cold !! Routed via Cable SHDs to CVV FTHs	CVUUCR	33	211121 J23	004	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P20

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP10 (C5)

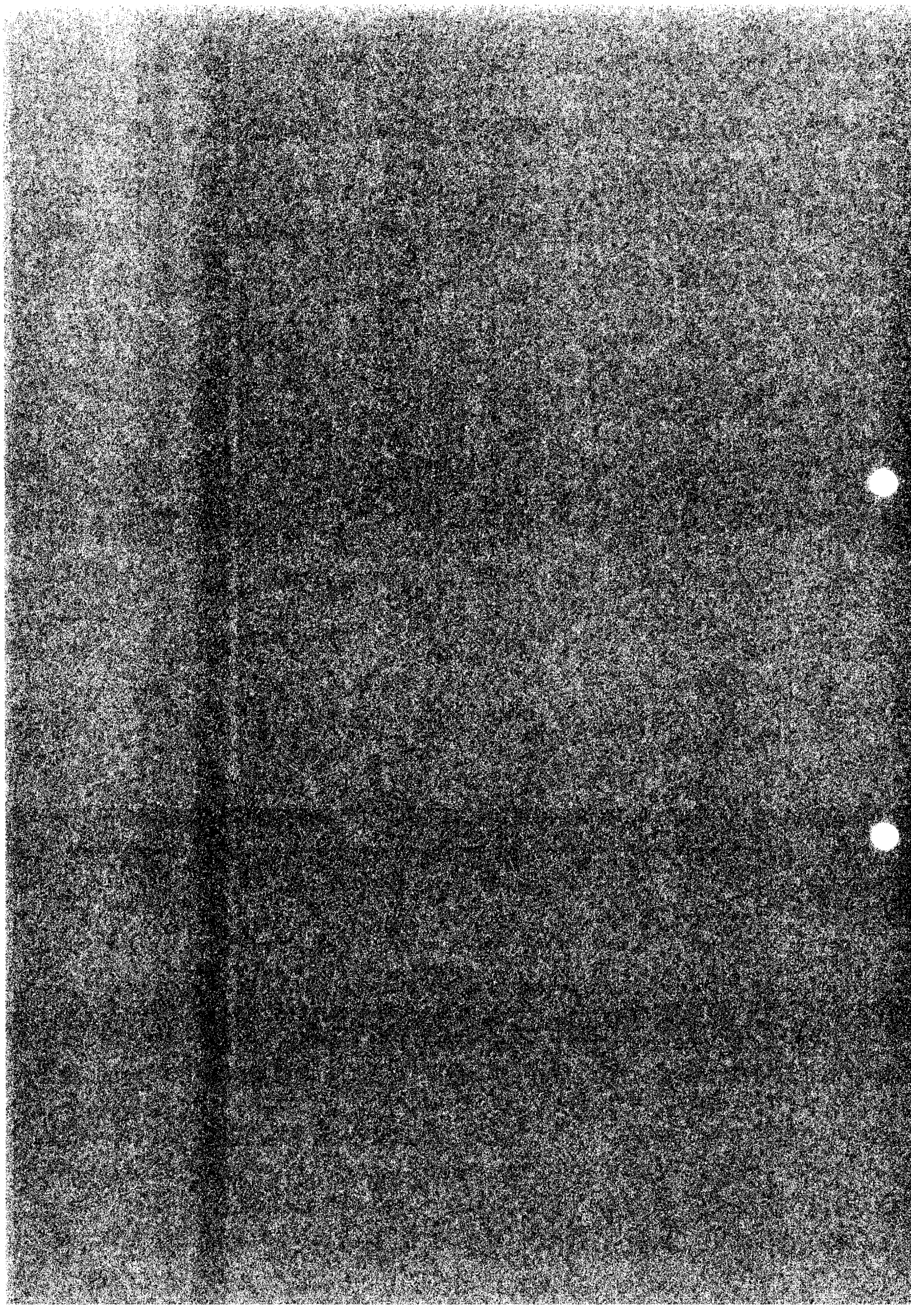
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
-	CH	Outer Shields=Faraday Shds						Faraday Shds con to Backshell ECR0039 tbc					
-		Isolation						Harness Branch to be isolated from S/C structure					
-													





# Pin Allocation List (Harness)

**Connector:** 121210 P19  
**Item:** HSJFP

*For wiring schematic  
See SIH-CS-04 HSJFP P23*

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP10 (C5)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3--630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
001	SPIRE PMW Ch25-28 . 25+	SPB.-	-	S094	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	090	
014	SPIRE PMW Ch25-28 . 25-	SPB.-	-	S094	12AXD-38	1				PMW-R1	CVVUCR	33	211121 J23	079	
013	SPIRE PMW Ch25-28 . 25gnd	SPB.-	-	S094	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
002	SPIRE PMW Ch25-28 . 26+	SPB.-	-	S094	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	102	
015	SPIRE PMW Ch25-28 . 26-	SPB.-	-	S094	12AXD-38	1				PMW-G1	CVVUCR	33	211121 J23	101	
013	SPIRE PMW Ch25-28 . 26gnd	SPB.-	-	S094	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
003	SPIRE PMW Ch25-28 . 27+	SPB.-	-	S094	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	092	
016	SPIRE PMW Ch25-28 . 27-	SPB.-	-	S094	12AXD-38	1				PMW-T2	CVVUCR	33	211121 J23	091	
013	SPIRE PMW Ch25-28 . 27gnd	SPB.-	-	S094	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
004	SPIRE PMW Ch25-28 . 28+	SPB.-	-	S094	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	103	
017	SPIRE PMW Ch25-28 . 28-	SPB.-	-	S094	12AXD-38	1				PMW-E1	CVVUCR	33	211121 J23	113	
013	SPIRE PMW Ch25-28 . 28gnd	SPB.-	-	S094	12AXD-38	1				12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
013	SPIRE PMW Ch25-28 . SHD01	SPB.-	-	S094	12AXD-38	1				Cable S094 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
-	S094 12 AXD Outer Shield									Cable S094 outer Shd con to CH (Faraday)					
005	SPIRE PMW Ch29-32 . 29+	SPB.-	-	S095	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	058	
018	SPIRE PMW Ch29-32 . 29-	SPB.-	-	S095	12AXD-38	2				PMW-D1	CVVUCR	33	211121 J23	046	
013	SPIRE PMW Ch29-32 . 29gnd	SPB.-	-	S095	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
006	SPIRE PMW Ch29-32 . 30+	SPB.-	-	S095	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	068	
019	SPIRE PMW Ch29-32 . 30-	SPB.-	-	S095	12AXD-38	2				PMW-F1	CVVUCR	33	211121 J23	057	
013	SPIRE PMW Ch29-32 . 30gnd	SPB.-	-	S095	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
020	SPIRE PMW Ch29-32 . 31+	SPB.-	-	S095	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	069	
007	SPIRE PMW Ch29-32 . 31-	SPB.-	-	S095	12AXD-38	2				PMW-E2	CVVUCR	33	211121 J23	080	
013	SPIRE PMW Ch29-32 . 31gnd	SPB.-	-	S095	12AXD-38	2				12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	

**Pin Allocation List**  
(Harness)**Connector:** 121210 P19**Item:** HSJFP**EMC-Category:** 2C/Sig H in Cryostat**Function:** SPIRE Bolom. Sign. from HSJFP10 (C5)**Location:** 75 / on SPIRE JFET big**Conn.-Type:** MWDM2L-25S-6C3-.630**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PMW Ch29-32 . 32+	SPB.-	-	S095	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	070	
008	SPIRE PMW Ch29-32 . 32-	SPB.-	-	S095	12AXD-38	2		PMW-G2	CVVUCR	33	211121 J23	081	
013	SPIRE PMW Ch29-32 . 32gnd	SPB.-	-	S095	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
013	SPIRE PMW Ch29-32 . SHD02	SPB.-	-	S095	12AXD-38	2		Cable S095 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
-	S095 12AXD Outer Shield							Cable S095 outer Shd con to CH (Faraday)					
-													
022	SPIRE PMW Ch33-36 . 33+	SPB.-	-	S096	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	023	
009	SPIRE PMW Ch33-36 . 33-	SPB.-	-	S096	12AXD-38	3		PMW-F2	CVVUCR	33	211121 J23	034	
013	SPIRE PMW Ch33-36 . 33gnd	SPB.-	-	S096	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
-													
023	SPIRE PMW Ch33-36 . 34+	SPB.-	-	S096	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	033	
010	SPIRE PMW Ch33-36 . 34-	SPB.-	-	S096	12AXD-38	3		PMW-G3	CVVUCR	33	211121 J23	045	
013	SPIRE PMW Ch33-36 . 34gnd	SPB.-	-	S096	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
-													
024	SPIRE PMW Ch33-36 . 35+	SPB.-	-	S096	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	044	
011	SPIRE PMW Ch33-36 . 35-	SPB.-	-	S096	12AXD-38	3		PMW-E3	CVVUCR	33	211121 J23	056	
013	SPIRE PMW Ch33-36 . 35gnd	SPB.-	-	S096	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
-													
025	SPIRE PMW Ch33-36 . 36+	SPB.-	-	S096	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	022	
012	SPIRE PMW Ch33-36 . 36-	SPB.-	-	S096	12AXD-38	3		PMW-D3	CVVUCR	33	211121 J23	032	
013	SPIRE PMW Ch33-36 . 36gnd	SPB.-	-	S096	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
013	SPIRE PMW Ch33-36 . SHD03	SPB.-	-	S096	12AXD-38	3		Cable S096 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J23	047	
-	S096 12AXD Outer Shield							Cable S096 outer Shd con to CH (Faraday)					
-													
013	SPIRE PMW B05 GND WIRE A3	SPX.-	-	S453	010B0-30			Not a Wire in Cold !! Routed via Cable SHDs to CVV FTBs	CVVUCR	33	211121 J23	047	
-													

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P19

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP10 (C5)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
-	CH Outer Shields=Faraday Shds							Faraday Shds con to Backshell ECR0039tbc					
-	Isolation							Harness Branch to be isolated from S/C Structure					
-													







# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Project: **HERSCHEL**  
For wiring schematic see SIH-CS-04 HSFJP P 22

Connector: 121210 P18

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP9 (C5)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PMW Ch13-16 . 13+	SPB.-	-	S090	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	086	
014	SPIRE PMW Ch13-16 . 13-	SPB.-	-	S090	12AXD-38	1		PMW-B10	CVVUCR	33	211121 J23	087	
013	SPIRE PMW Ch13-16 . 13gnd	SPB.-	-	S090	12AXD-38	1		12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J23	128	
002	SPIRE PMW Ch13-16 . 14+	SPB.-	-	S090	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	097	
015	SPIRE PMW Ch13-16 . 14-	SPB.-	-	S090	12AXD-38	1		PMW-A10	CVVUCR	33	211121 J23	098	
013	SPIRE PMW Ch13-16 . 14gnd	SPB.-	-	S090	12AXD-38	1		12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J23	128	
003	SPIRE PMW Ch13-16 . 15+	SPB.-	-	S090	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	108	
016	SPIRE PMW Ch13-16 . 15-	SPB.-	-	S090	12AXD-38	1		PMW-D10	CVVUCR	33	211121 J23	109	
013	SPIRE PMW Ch13-16 . 15gnd	SPB.-	-	S090	12AXD-38	1		12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J23	128	
004	SPIRE PMW Ch13-16 . 16+	SPB.-	-	S090	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	116	
017	SPIRE PMW Ch13-16 . 16-	SPB.-	-	S090	12AXD-38	1		PMW-B9	CVVUCR	33	211121 J23	117	
013	SPIRE PMW Ch13-16 . 16gnd	SPB.-	-	S090	12AXD-38	1		12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J23	128	
013	SPIRE PMW Ch13-16 . SHD01	SPB.-	-	S090	12AXD-38	1		Cable S090 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J23	128	
-	S090 12AXD Outer Shield							Cable S090 outer Shd con to CH (Faraday)					
005	SPIRE PMW Ch17-20 . 17+	SPB.-	-	S091	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	055	
018	SPIRE PMW Ch17-20 . 17-	SPB.-	-	S091	12AXD-38	2		PMW-C10	CVVUCR	33	211121 J23	066	
013	SPIRE PMW Ch17-20 . 17gnd	SPB.-	-	S091	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J23	128	
006	SPIRE PMW Ch17-20 . 18+	SPB.-	-	S091	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	067	
019	SPIRE PMW Ch17-20 . 18-	SPB.-	-	S091	12AXD-38	2		PMW-C9	CVVUCR	33	211121 J23	078	
013	SPIRE PMW Ch17-20 . 18gnd	SPB.-	-	S091	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J23	128	
020	SPIRE PMW Ch17-20 . 19+	SPB.-	-	S091	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	076	
007	SPIRE PMW Ch17-20 . 19-	SPB.-	-	S091	12AXD-38	2		PMW-A9	CVVUCR	33	211121 J23	077	
013	SPIRE PMW Ch17-20 . 19gnd	SPB.-	-	S091	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J23	128	

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 3)

Connector: 121210 P18

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP9 (C5)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PMW Ch17-20 . 20+	SPB,-	-	S091	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J23	088	
008	SPIRE PMW Ch17-20 . 20-	SPB,-	-	S091	12AXD-38	2		PMW-B8	CWUCR	33	211121 J23	089	
013	SPIRE PMW Ch17-20 . 20grnd	SPB,-	-	S091	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J23	128	
013	SPIRE PMW Ch17-20 . SHD02	SPB,-	-	S091	12AXD-38	2		Cable S091 inner Shd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J23	128	
-	S091 12AXD Outer Shield							Cable S091 outer Shd con to CH (Faraday)					
022	SPIRE PMW Ch21-24 . 21+	SPB,-	-	S092	12AXD-38	3		200 Ohm/1.0E-09 A	CWUCR	33	211121 J23	099	
009	SPIRE PMW Ch21-24 . 21-	SPB,-	-	S092	12AXD-38	3		PMW-A8	CWUCR	33	211121 J23	100	
013	SPIRE PMW Ch21-24 . 21grnd	SPB,-	-	S092	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J23	128	
023	SPIRE PMW Ch21-24 . 22+	SPB,-	-	S092	12AXD-38	3		200 Ohm/1.0E-09 A	CWUCR	33	211121 J23	110	
010	SPIRE PMW Ch21-24 . 22-	SPB,-	-	S092	12AXD-38	3		PMW-D8	CWUCR	33	211121 J23	111	
013	SPIRE PMW Ch21-24 . 22grnd	SPB,-	-	S092	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J23	128	
024	SPIRE PMW Ch21-24 . 23+	SPB,-	-	S092	12AXD-38	3		200 Ohm/1.0E-09 A	CWUCR	33	211121 J23	118	
011	SPIRE PMW Ch21-24 . 23-	SPB,-	-	S092	12AXD-38	3		PMW-C8	CWUCR	33	211121 J23	119	
013	SPIRE PMW Ch21-24 . 23grnd	SPB,-	-	S092	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J23	128	
025	SPIRE PMW Ch21-24 . 24+	SPB,-	-	S092	12AXD-38	3		200 Ohm/1.0E-09 A	CWUCR	33	211121 J23	112	
012	SPIRE PMW Ch21-24 . 24-	SPB,-	-	S092	12AXD-38	3		PMW-B7	CWUCR	33	211121 J23	120	
013	SPIRE PMW Ch21-24 . 24grnd	SPB,-	-	S092	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J23	128	
013	SPIRE PMW Ch21-24 . SHD03	SPB,-	-	S092	12AXD-38	3		Cable S092 inner Shd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J23	128	
-	S092 12AXD Outer Shield							Cable S092 outer Shd con to CH (Faraday)					
013	SPIRE PMW B05 GND WIRE A2	SPX,-	-	S452	010B0-30			Not a Wire in Cold !! Routed via Cable SHDs to CW FTHs	CWUCR	33	211121 J23	128	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P18

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP9 (C5)

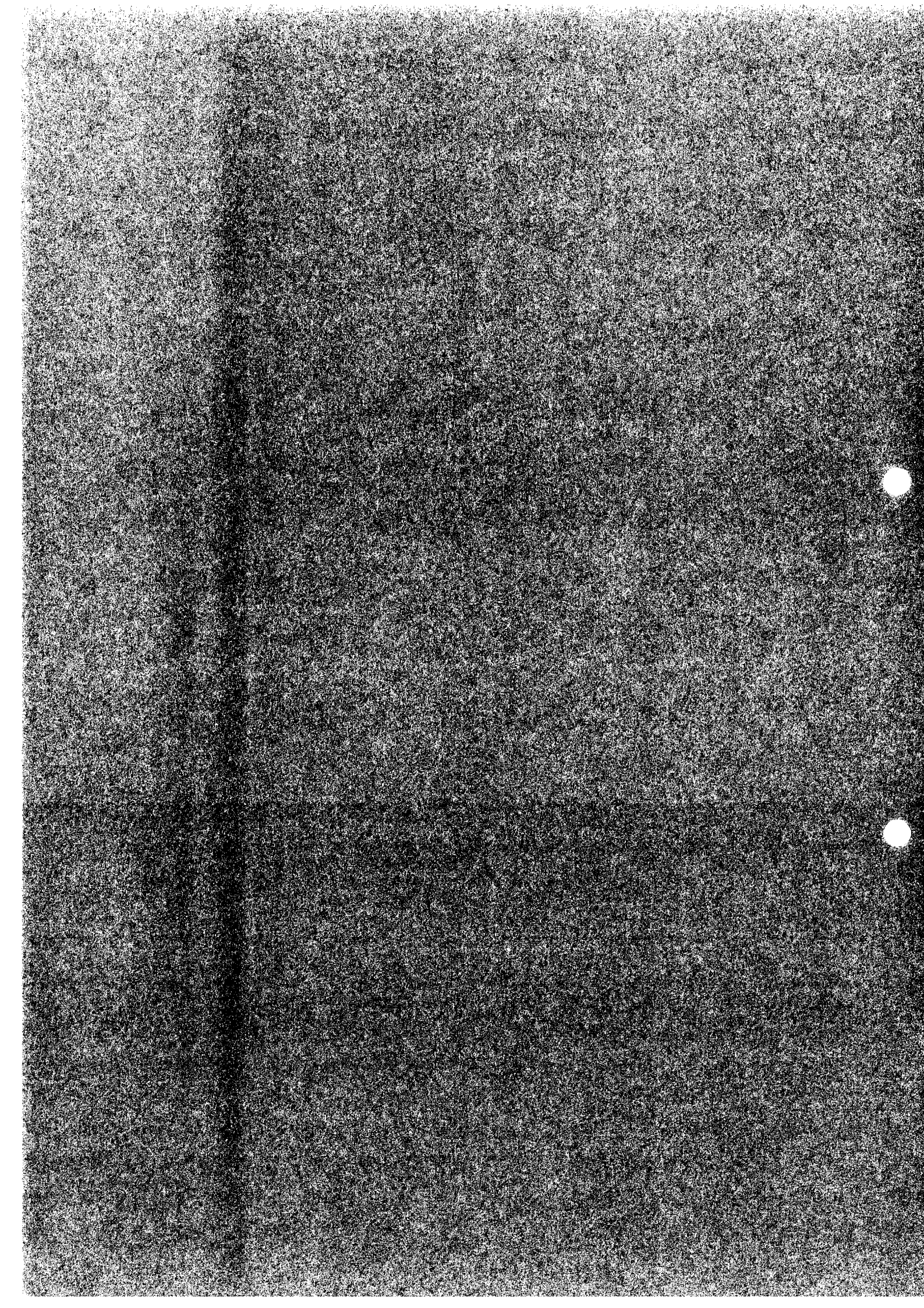
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
-	CH Outer Shields=Faraday Shds							Faraday Shds con to Backshell ECR0039tbc					
-	Isolation							Harness Branch to be isolated from S/C Structure					
-													





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Project: **HERSCHEL**

For wiring schematic  
see SIH-CS-04 HSJFP P 2A

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P17

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP9 (C5)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3--630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
001	SPIRE PMW Ch01-04 . 1+	SPB.-	-	S085	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVWUCR	33	211121 J23	026	
014	SPIRE PMW Ch01-04 . 1-	SPB.-	-	S085	12AXD-38	1	1	PMW-A13	CVWUCR	33	211121 J23	037	
013	SPIRE PMW Ch01-04 . 1gnd	SPB.-	-	S085	12AXD-38	1	1	12 AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J23	036	
002	SPIRE PMW Ch01-04 . 2+	SPB.-	-	S085	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVWUCR	33	211121 J23	038	
015	SPIRE PMW Ch01-04 . 2-	SPB.-	-	S085	12AXD-38	1	1	PMW-T1	CVWUCR	33	211121 J23	049	
013	SPIRE PMW Ch01-04 . 2gnd	SPB.-	-	S085	12AXD-38	1	1	12 AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J23	036	
003	SPIRE PMW Ch01-04 . 3+	SPB.-	-	S085	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVWUCR	33	211121 J23	048	
016	SPIRE PMW Ch01-04 . 3-	SPB.-	-	S085	12AXD-38	1	1	PMW-B12	CVWUCR	33	211121 J23	060	
013	SPIRE PMW Ch01-04 . 3gnd	SPB.-	-	S085	12AXD-38	1	1	12 AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J23	036	
004	SPIRE PMW Ch01-04 . 4+	SPB.-	-	S085	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVWUCR	33	211121 J23	059	
017	SPIRE PMW Ch01-04 . 4-	SPB.-	-	S085	12AXD-38	1	1	PMW-C13	CVWUCR	33	211121 J23	071	
013	SPIRE PMW Ch01-04 . 4gnd	SPB.-	-	S085	12AXD-38	1	1	12 AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J23	036	
013	SPIRE PMW Ch01-04 . SHD01	SPB.-	-	S085	12AXD-38	1	1	Cable S085 inner Shd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J23	036	
-	S085 12AXD Outer Shield							Cable S085 outer Shd con to CH (Faraday)					
005	SPIRE PMW Ch05-08 . 5+	SPB.-	-	S086	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVWUCR	33	211121 J23	050	
018	SPIRE PMW Ch05-08 . 5-	SPB.-	-	S086	12AXD-38	2	2	PMW-A12	CVWUCR	33	211121 J23	061	
013	SPIRE PMW Ch05-08 . 5gnd	SPB.-	-	S086	12AXD-38	2	2	12 AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J23	036	
006	SPIRE PMW Ch05-08 . 6+	SPB.-	-	S086	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVWUCR	33	211121 J23	062	
019	SPIRE PMW Ch05-08 . 6-	SPB.-	-	S086	12AXD-38	2	2	PMW-D12	CVWUCR	33	211121 J23	051	
013	SPIRE PMW Ch05-08 . 6gnd	SPB.-	-	S086	12AXD-38	2	2	12 AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J23	036	
020	SPIRE PMW Ch05-08 . 7+	SPB.-	-	S086	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVWUCR	33	211121 J23	063	
007	SPIRE PMW Ch05-08 . 7-	SPB.-	-	S086	12AXD-38	2	2	PMW-C12	CVWUCR	33	211121 J23	075	
013	SPIRE PMW Ch05-08 . 7gnd	SPB.-	-	S086	12AXD-38	2	2	12 AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J23	036	



**Pin Allocation List**  
(Harness)**Connector:** 121210 P17**Item:** HSJFP**EMC-Category:** 2C/Sig H in Cryostat**Function:** SPIRE Bolom. Sign. from HSJFP9 (C5)**Location:** 75 / on SPIRE JFET big**Conn.-Type:** MWDM2L-25S-6C3-.630**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PMW Ch05-08 . 8+	SPB.-	-	S086	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	074	
008	SPIRE PMW Ch05-08 . 8-	SPB.-	-	S086	12AXD-38	2		PMW-B11	CVVUCR	33	211121 J23	073	
013	SPIRE PMW Ch05-08 . 8gnd	SPB.-	-	S086	12AXD-38	2		12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J23	036	
013	SPIRE PMW Ch05-08 . SHD02	SPB.-	-	S086	12AXD-38	2		Cable S086 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J23	036	
-	S086 12AXD Outer Shield							Cable S086 outer Shd con to CH (Faraday)					
-													
022	SPIRE PMW Ch09-12 . 9+	SPB.-	-	S087	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	083	
009	SPIRE PMW Ch09-12 . 9-	SPB.-	-	S087	12AXD-38	3		PMW-A11	CVVUCR	33	211121 J23	072	
013	SPIRE PMW Ch09-12 . 9gnd	SPB.-	-	S087	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J23	036	
-													
023	SPIRE PMW Ch09-12 . 10+	SPB.-	-	S087	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	095	
010	SPIRE PMW Ch09-12 . 10-	SPB.-	-	S087	12AXD-38	3		PMW-A13	CVVUCR	33	211121 J23	084	
013	SPIRE PMW Ch09-12 . 10gnd	SPB.-	-	S087	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J23	036	
-													
024	SPIRE PMW Ch09-12 . 11+	SPB.-	-	S087	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	096	
011	SPIRE PMW Ch09-12 . 11-	SPB.-	-	S087	12AXD-38	3		PMW-D11	CVVUCR	33	211121 J23	085	
013	SPIRE PMW Ch09-12 . 11gnd	SPB.-	-	S087	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J23	036	
-													
025	SPIRE PMW Ch09-12 . 12+	SPB.-	-	S087	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J23	106	
012	SPIRE PMW Ch09-12 . 12-	SPB.-	-	S087	12AXD-38	3		PMW-C11	CVVUCR	33	211121 J23	107	
013	SPIRE PMW Ch09-12 . 12gnd	SPB.-	-	S087	12AXD-38	3		12 AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J23	036	
013	SPIRE PMW Ch09-12 . SHD03	SPB.-	-	S087	12AXD-38	3		Cable S087 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J23	036	
-	S087 12AXD Outer Shield							Cable S087 outer Shd con to CH (Faraday)					
-													
-													
013	SPIRE PMW B05 GND WIRE A1	SPX.-	-	S451	010B0-30			Not a Wire in Cold !! Routed via Cable SHDs to CVW FTns	CVVUCR	33	211121 J23	036	
-													



Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P17

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP9 (C5)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
-	CH Outer Shields=Faraday Shds							Faraday Shds con to Backshell ECR0039tbc					
-	Isolation							Harness Branch to be isolated from S/C structure					
-													





# Pin Allocation List

(Harness)

**Connector:** 121210 P16  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP8 (C6)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PLW Ch37-40 . 37+	SPA-	-	S118	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	013	
014	SPIRE PLW Ch37-40 . 37-	SPA-	-	S118	12AXD-38	1		PLW-E5	CVVUCR	33	211121 J24	012	
013	SPIRE PLW Ch37-40 . 37gnd	SPA-	-	S118	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
002	SPIRE PLW Ch37-40 . 38+	SPA-	-	S118	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	021	
015	SPIRE PLW Ch37-40 . 38-	SPA-	-	S118	12AXD-38	1		PLW-C6	CVVUCR	33	211121 J24	020	
013	SPIRE PLW Ch37-40 . 38gnd	SPA-	-	S118	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
003	SPIRE PLW Ch37-40 . 39+	SPA-	-	S118	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	031	
016	SPIRE PLW Ch37-40 . 39-	SPA-	-	S118	12AXD-38	1		PLW-C8	CVVUCR	33	211121 J24	043	
013	SPIRE PLW Ch37-40 . 39gnd	SPA-	-	S118	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
004	SPIRE PLW Ch37-40 . 40+	SPA-	-	S118	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	042	
017	SPIRE PLW Ch37-40 . 40-	SPA-	-	S118	12AXD-38	1		PLW-D5	CVVUCR	33	211121 J24	054	
013	SPIRE PLW Ch37-40 . 40gnd	SPA-	-	S118	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
013	SPIRE PLW Ch37-40 . SHD01	SPA-	-	S118	12AXD-38	1		Cable S118 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
-	S118 12AXD Outer Shield							Cable S118 outer Shd con to CH (Faraday)					
005	SPIRE PLW Ch41-44 . 41+	SPA-	-	S119	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	010	
018	SPIRE PLW Ch41-44 . 41-	SPA-	-	S119	12AXD-38	2		PLW-D6	CVVUCR	33	211121 J24	011	
013	SPIRE PLW Ch41-44 . 41gnd	SPA-	-	S119	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
006	SPIRE PLW Ch41-44 . 42+	SPA-	-	S119	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	019	
019	SPIRE PLW Ch41-44 . 42-	SPA-	-	S119	12AXD-38	2		PLW-D7	CVVUCR	33	211121 J24	029	
013	SPIRE PLW Ch41-44 . 42gnd	SPA-	-	S119	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
020	SPIRE PLW Ch41-44 . 43+	SPA-	-	S119	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	041	
007	SPIRE PLW Ch41-44 . 43-	SPA-	-	S119	12AXD-38	2		PLW-D8	CVVUCR	33	211121 J24	030	
013	SPIRE PLW Ch41-44 . 43gnd	SPA-	-	S119	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	

**Pin Allocation List**  
(Harness)**Connector:** 121210 P16**Item:** HSJFP**EMC-Category:** 2C/Sig H in Cryostat**Function:** SPIRE Bolom. Sign. from HSJFP8 (C6)**Location:** 75 / on SPIRE JFET big**Conn.-Type:** MWDM2L-25S-6C3-.630**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PLW Ch41-44 . 44+	SPA-	-	S119	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	053	
008	SPIRE PLW Ch41-44 . 44-	SPA-	-	S119	12AXD-38	2		PLW-E7	CVVUCR	33	211121 J24	052	
013	SPIRE PLW Ch41-44 . 44gnd	SPA-	-	S119	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
013	SPIRE PLW Ch41-44 . SHD02	SPA-	-	S119	12AXD-38	2		Cable S119 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
-	S119 12AXD Outer Shield							Cable S119 outer Shd con to CH (Faraday)					
-													
022	SPIRE PLW Ch45-48 . 45+	SPA-	-	S120	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	009	
009	SPIRE PLW Ch45-48 . 45-	SPA-	-	S120	12AXD-38	3		PLW-E6	CVVUCR	33	211121 J24	017	
013	SPIRE PLW Ch45-48 . 45gnd	SPA-	-	S120	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
-													
023	SPIRE PLW Ch45-48 . 46+	SPA-	-	S120	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	018	
010	SPIRE PLW Ch45-48 . 46-	SPA-	-	S120	12AXD-38	3		PLW-E8	CVVUCR	33	211121 J24	028	
013	SPIRE PLW Ch45-48 . 46gnd	SPA-	-	S120	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
-													
024	SPIRE PLW Ch45-48 . 47+	SPA-	-	S120	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	016	
011	SPIRE PLW Ch45-48 . 47-	SPA-	-	S120	12AXD-38	3		PLW-DK2	CVVUCR	33	211121 J24	027	
013	SPIRE PLW Ch45-48 . 47gnd	SPA-	-	S120	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
-													
025	SPIRE PLW Ch45-48 . 48+	SPA-	-	S120	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	040	
012	SPIRE PLW Ch45-48 . 48-	SPA-	-	S120	12AXD-38	3		PLW-E9	CVVUCR	33	211121 J24	039	
013	SPIRE PLW Ch45-48 . 48gnd	SPA-	-	S120	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
013	SPIRE PLW Ch45-48 . SHD03	SPA-	-	S120	12AXD-38	3		Cable S120 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J24	004	
-	S120 12AXD Outer Shield							Cable S120 outer Shd con to CH (Faraday)					
-													
013	SPIRE PMW B06 GND WIRE A4	SPX-	-	S464	010B0-30			Not a Wire in Cold !! Routed via Cable SHDs to CVV FThs	CVVUCR	33	211121 J24	004	
-													

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P16

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP8 (C6)

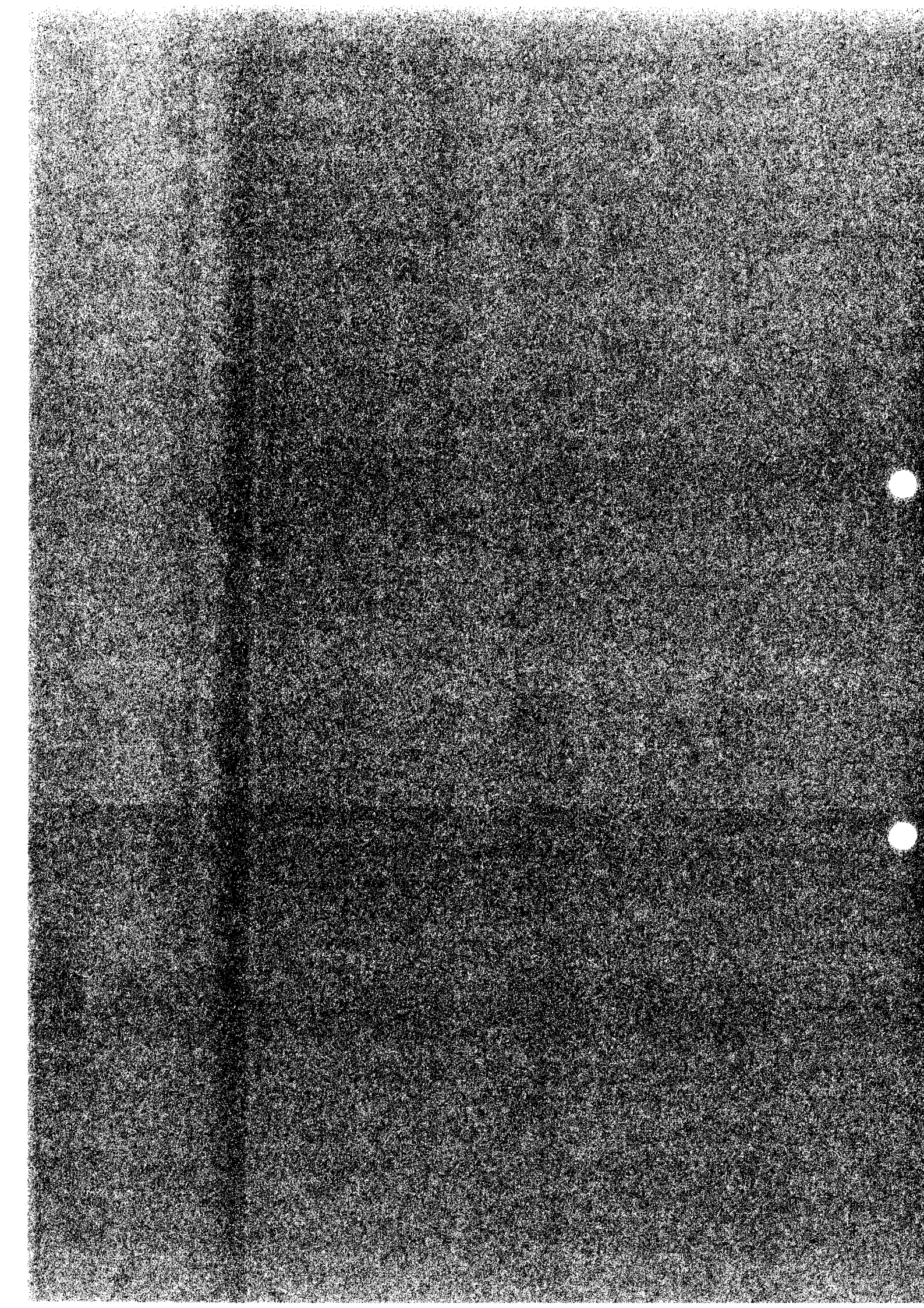
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3--630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
-	CH Outer Shields=Faraday Shield					Faraday Shds con to Backshell ECR0039tbc					
-	Isolation					Harness Branch to be isolated from S/C Structure					
-											







# Astrium GmbH

Project: **HERSCHEL**

For wiring schematic  
see S11t-CS-04 HSJFP P23

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P15

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP8 (C6)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PLW Ch25-28 . 25+	SPA-	-	S113	12AXD-38	1		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J24	090	
014	SPIRE PLW Ch25-28 . 25-	SPA-	-	S113	12AXD-38	1		PLW-E1	CVUUCR	33	211121 J24	079	
013	SPIRE PLW Ch25-28 . 25gnd	SPA-	-	S113	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J24	047	
002	SPIRE PLW Ch25-28 . 26+	SPA-	-	S113	12AXD-38	1		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J24	102	
015	SPIRE PLW Ch25-28 . 26-	SPA-	-	S113	12AXD-38	1		PLW-E2	CVUUCR	33	211121 J24	101	
013	SPIRE PLW Ch25-28 . 26gnd	SPA-	-	S113	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J24	047	
003	SPIRE PLW Ch25-28 . 27+	SPA-	-	S113	12AXD-38	1		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J24	092	
016	SPIRE PLW Ch25-28 . 27-	SPA-	-	S113	12AXD-38	1		PLW-E3	CVUUCR	33	211121 J24	091	
013	SPIRE PLW Ch25-28 . 27gnd	SPA-	-	S113	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J24	047	
004	SPIRE PLW Ch25-28 . 28+	SPA-	-	S113	12AXD-38	1		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J24	103	
017	SPIRE PLW Ch25-28 . 28-	SPA-	-	S113	12AXD-38	1		PLW-E4	CVUUCR	33	211121 J24	113	
013	SPIRE PLW Ch25-28 . 28gnd	SPA-	-	S113	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J24	047	
013	SPIRE PLW Ch25-28 . SHD01	SPA-	-	S113	12AXD-38	1		Cable S113 inner Shd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J24	047	
-	S113 12AXD Outer Shield							Cable S113 outer Shd con to CH (Faraday)					
005	SPIRE PLW Ch29-32 . 29+	SPA-	-	S114	12AXD-38	2		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J24	058	
018	SPIRE PLW Ch29-32 . 29-	SPA-	-	S114	12AXD-38	2		PLW-D1	CVUUCR	33	211121 J24	046	
013	SPIRE PLW Ch29-32 . 29gnd	SPA-	-	S114	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J24	047	
006	SPIRE PLW Ch29-32 . 30+	SPA-	-	S114	12AXD-38	2		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J24	068	
019	SPIRE PLW Ch29-32 . 30-	SPA-	-	S114	12AXD-38	2		PLW-D2	CVUUCR	33	211121 J24	057	
013	SPIRE PLW Ch29-32 . 30gnd	SPA-	-	S114	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J24	047	
020	SPIRE PLW Ch29-32 . 31+	SPA-	-	S114	12AXD-38	2		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J24	069	
007	SPIRE PLW Ch29-32 . 31-	SPA-	-	S114	12AXD-38	2		PLW-D3	CVUUCR	33	211121 J24	080	
013	SPIRE PLW Ch29-32 . 31gnd	SPA-	-	S114	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J24	047	

**Pin Allocation List**  
(Harness)**Connector:** 121210 P15**Item:** HSJFP**EMC-Category:** 2C/Sig H in Cryostat**Function:** SPIRE Bolom. Sign. from HSJFP8 (C6)**Location:** 75 / on SPIRE JFET big**Conn.-Type:** MWDM2L-25S-6C3-.630**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PLW Ch29-32 . 32+	SPA-	-	S114	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	070	
008	SPIRE PLW Ch29-32 . 32-	SPA-	-	S114	12AXD-38	2		PLW-D4	CVVUCR	33	211121 J24	081	
013	SPIRE PLW Ch29-32 . 32grnd	SPA-	-	S114	12AXD-38	2		12AX gnd daisy ch to Pin 13	CVVUCR	33	211121 J24	047	
013	SPIRE PLW Ch29-32 . SHD02	SPA-	-	S114	12AXD-38	2		Cable S114 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J24	047	
-	S114 12AXD Outer Shield							Cable S114 outer Shd con to CH (Faraday)					
-													
022	SPIRE PLW Ch33-36 . 33+	SPA-	-	S115	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	023	
009	SPIRE PLW Ch33-36 . 33-	SPA-	-	S115	12AXD-38	3		PLW-C1	CVVUCR	33	211121 J24	034	
013	SPIRE PLW Ch33-36 . 33grnd	SPA-	-	S115	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J24	047	
-													
023	SPIRE PLW Ch33-36 . 34+	SPA-	-	S115	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	033	
010	SPIRE PLW Ch33-36 . 34-	SPA-	-	S115	12AXD-38	3		PLW-C3	CVVUCR	33	211121 J24	045	
013	SPIRE PLW Ch33-36 . 34grnd	SPA-	-	S115	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J24	047	
-													
024	SPIRE PLW Ch33-36 . 35+	SPA-	-	S115	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	044	
011	SPIRE PLW Ch33-36 . 35-	SPA-	-	S115	12AXD-38	3		PLW-C5	CVVUCR	33	211121 J24	056	
013	SPIRE PLW Ch33-36 . 35grnd	SPA-	-	S115	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J24	047	
-													
025	SPIRE PLW Ch33-36 . 36+	SPA-	-	S115	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	022	
012	SPIRE PLW Ch33-36 . 36-	SPA-	-	S115	12AXD-38	3		PLW-T2	CVVUCR	33	211121 J24	032	
013	SPIRE PLW Ch33-36 . 36grnd	SPA-	-	S115	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J24	047	
013	SPIRE PLW Ch33-36 . SHD03	SPA-	-	S115	12AXD-38	3		Cable S115 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J24	047	
-	S115 12AXD Outer Shield							Cable S115 outer Shd con to CH (Faraday)					
-													
013	SPIRE PMW B06 GND WIRE A3	SPX-	-	S463	010B0-30			Not a Wire in Cold !! Routed via Cable SHDs to CVV FThs	CVVUCR	33	211121 J24	047	
-													
-													

**Astrium GmbH**

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P15

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP8 (C6)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3- 630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
CH	Outer Shds = Faraday Shds							Faraday Shields con to Backshell ECR0039tbc					
-	Isolation							Harness Branch to be isolated from S/C Structure					
-													





**Astrium GmbH**  
 Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-1 (of 3)

For wiring schematic  
 see SIH-CS-0X HSJFP P22

**Connector:** 121210 P14  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP7 (C6)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PLW Ch13-16 . 13+	SPA-	-	S109	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J24	086	
014	SPIRE PLW Ch13-16 . 13-	SPA-	-	S109	12AXD-38	1		PLW-T1	CWUCR	33	211121 J24	087	
013	SPIRE PLW Ch13-16 . 13gnd	SPA-	-	S109	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J24	128	
002	SPIRE PLW Ch13-16 . 14+	SPA-	-	S109	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J24	097	
015	SPIRE PLW Ch13-16 . 14-	SPA-	-	S109	12AXD-38	1		PLW-B4	CWUCR	33	211121 J24	098	
013	SPIRE PLW Ch13-16 . 14gnd	SPA-	-	S109	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J24	128	
003	SPIRE PLW Ch13-16 . 15+	SPA-	-	S109	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J24	108	
016	SPIRE PLW Ch13-16 . 15-	SPA-	-	S109	12AXD-38	1		PLW-C4	CWUCR	33	211121 J24	109	
013	SPIRE PLW Ch13-16 . 15gnd	SPA-	-	S109	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J24	128	
004	SPIRE PLW Ch13-16 . 16+	SPA-	-	S109	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J24	116	
017	SPIRE PLW Ch13-16 . 16-	SPA-	-	S109	12AXD-38	1		PLW-B3	CWUCR	33	211121 J24	117	
013	SPIRE PLW Ch13-16 . 16gnd	SPA-	-	S109	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J24	128	
013	SPIRE PLW Ch13-16 . SHD01	SPA-	-	S109	12AXD-38	1		Cable S109 inner Shd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J24	128	
-	S109 12AXD Outer Shield							Cable S109 outer Shd con to CH (Faraday)					
005	SPIRE PLW Ch17-20 . 17+	SPA-	-	S110	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J24	055	
018	SPIRE PLW Ch17-20 . 17-	SPA-	-	S110	12AXD-38	2		PLW-C2	CWUCR	33	211121 J24	066	
013	SPIRE PLW Ch17-20 . 17gnd	SPA-	-	S110	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J24	128	
006	SPIRE PLW Ch17-20 . 18+	SPA-	-	S110	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J24	067	
019	SPIRE PLW Ch17-20 . 18-	SPA-	-	S110	12AXD-38	2		PLW-B2	CWUCR	33	211121 J24	078	
013	SPIRE PLW Ch17-20 . 18gnd	SPA-	-	S110	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J24	128	
020	SPIRE PLW Ch17-20 . 19+	SPA-	-	S110	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J24	076	
007	SPIRE PLW Ch17-20 . 19-	SPA-	-	S110	12AXD-38	2		PLW-B1	CWUCR	33	211121 J24	077	
013	SPIRE PLW Ch17-20 . 19gnd	SPA-	-	S110	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J24	128	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 3)

**Connector:** 121210 P14  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP7 (C6)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PLW Ch17-20 . 20+	SPA-	-	S110	12AXD-38	2		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	088	
008	SPIRE PLW Ch17-20 . 20-	SPA-	-	S110	12AXD-38	2		PLW-A3	CVWUCR	33	211121 J24	089	
013	SPIRE PLW Ch17-20 . 20gnd	SPA-	-	S110	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J24	128	
013	SPIRE PLW Ch17-20 . SHD02	SPA-	-	S110	12AXD-38	2		Cable S110 inner Shd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J24	128	
-	S110 12AXD Outer Shield							Cable S110 outer Shd con to CH (Faraday)					
022	SPIRE PLW Ch21-24 . 21+	SPA-	-	S111	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	099	
009	SPIRE PLW Ch21-24 . 21-	SPA-	-	S111	12AXD-38	3		PLW-A4	CVWUCR	33	211121 J24	100	
013	SPIRE PLW Ch21-24 . 21gnd	SPA-	-	S111	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J24	128	
023	SPIRE PLW Ch21-24 . 22+	SPA-	-	S111	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	110	
010	SPIRE PLW Ch21-24 . 22-	SPA-	-	S111	12AXD-38	3		PLW-A1	CVWUCR	33	211121 J24	111	
013	SPIRE PLW Ch21-24 . 22gnd	SPA-	-	S111	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J24	128	
024	SPIRE PLW Ch21-24 . 23+	SPA-	-	S111	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	118	
011	SPIRE PLW Ch21-24 . 23-	SPA-	-	S111	12AXD-38	3		PLW-DK1	CVWUCR	33	211121 J24	119	
013	SPIRE PLW Ch21-24 . 23gnd	SPA-	-	S111	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J24	128	
025	SPIRE PLW Ch21-24 . 24+	SPA-	-	S111	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	112	
012	SPIRE PLW Ch21-24 . 24-	SPA-	-	S111	12AXD-38	3		PLW-A2	CVWUCR	33	211121 J24	120	
013	SPIRE PLW Ch21-24 . 24gnd	SPA-	-	S111	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J24	128	
013	SPIRE PLW Ch21-24 . SHD03	SPA-	-	S111	12AXD-38	3		Cable S111 inner Shd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J24	128	
-	S111 12AXD Outer Shield							Cable S111 outer Shd con to CH (Faraday)					
013	SPIRE PMW B06 GND WIRE A2	SPX-	-	S462	010B0-30			Not a Wire in Cold !! Routed via Cable SHDs to CVW FTHs	CVWUCR	33	211121 J24	128	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P14

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP7 (C6)

Location: 75 / on SPIRE JFET big

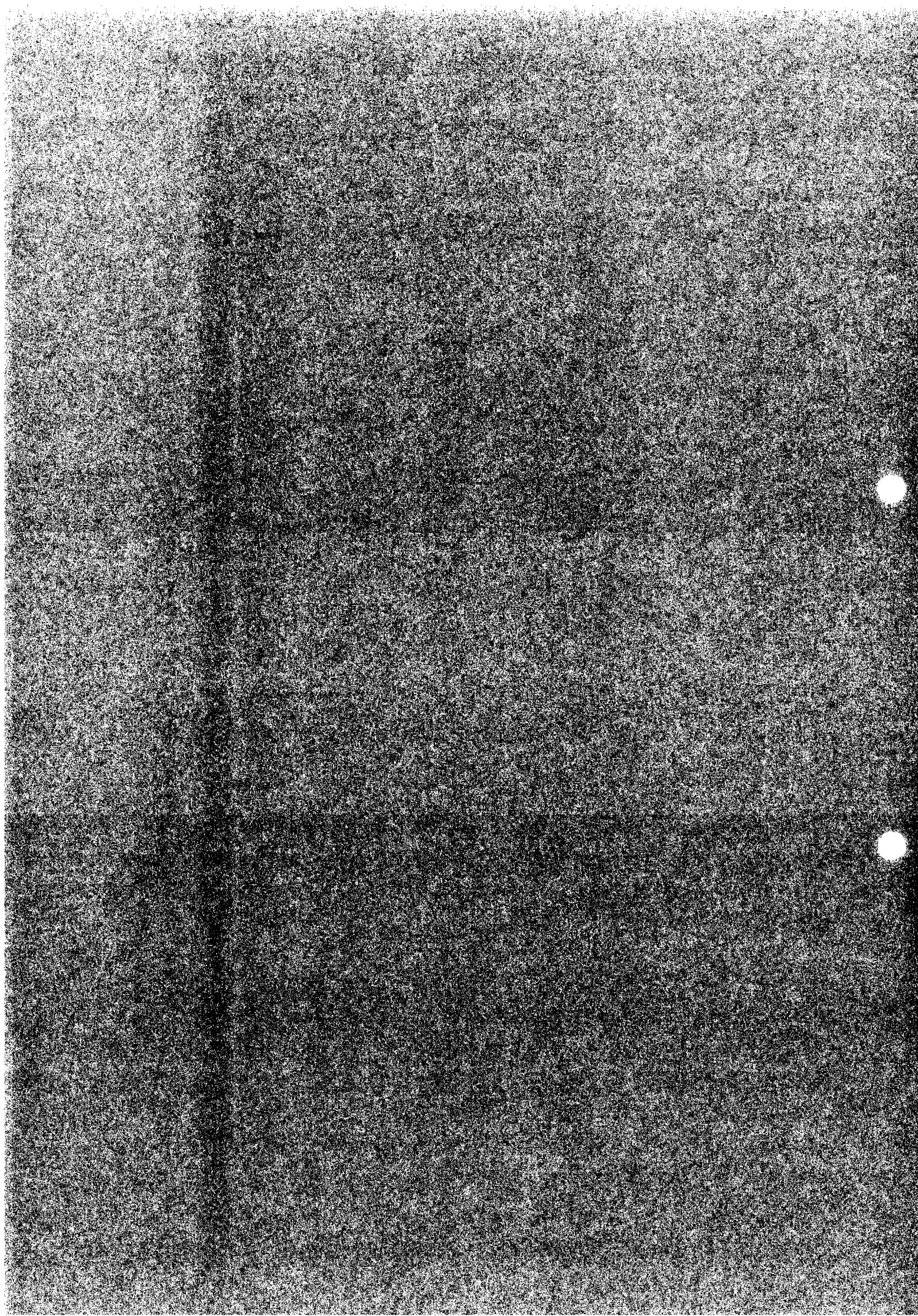
Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
-	CH Outer Shields=Farady Shds					Faraday Shds con to Backshell ECR0039tbc					
-	Isolation					Harness Branch to be isolated from S/C Structure					
-											







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Project: **HERSCHEL**

For wiring Schematic  
see SIH-CS-04 HSJFP P 2 A

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P13  
Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP7 (C6)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
001	SPIRE PLW Ch01-04 . 1+	SPA- -	S104	12AXD-38	1				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	026	
014	SPIRE PLW Ch01-04 . 1-	SPA- -	S104	12AXD-38	1				PLW-R1	CVWUCR	33	211121 J24	037	
013	SPIRE PLW Ch01-04 . 1gnd	SPA- -	S104	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J24	036	
002	SPIRE PLW Ch01-04 . 2+	SPA- -	S104	12AXD-38	1				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	038	
015	SPIRE PLW Ch01-04 . 2-	SPA- -	S104	12AXD-38	1				PLW-A8	CVWUCR	33	211121 J24	049	
013	SPIRE PLW Ch01-04 . 2gnd	SPA- -	S104	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J24	036	
003	SPIRE PLW Ch01-04 . 3+	SPA- -	S104	12AXD-38	1				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	048	
016	SPIRE PLW Ch01-04 . 3-	SPA- -	S104	12AXD-38	1				PLW-A8	CVWUCR	33	211121 J24	060	
013	SPIRE PLW Ch01-04 . 3gnd	SPA- -	S104	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J24	036	
004	SPIRE PLW Ch01-04 . 4+	SPA- -	S104	12AXD-38	1				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	059	
017	SPIRE PLW Ch01-04 . 4-	SPA- -	S104	12AXD-38	1				PLW-A7	CVWUCR	33	211121 J24	071	
013	SPIRE PLW Ch01-04 . 4gnd	SPA- -	S104	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J24	036	
013	SPIRE PLW Ch01-04 . SHD01	SPA- -	S104	12AXD-38	1				Cable S104 inner Shd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J24	036	
-	S104 12 AXD Outer Shield								Cable S104 outer Shd con to CH (Faraday)					
005	SPIRE PLW Ch05-08 . 5+	SPA- -	S105	12AXD-38	2				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	050	
018	SPIRE PLW Ch05-08 . 5-	SPA- -	S105	12AXD-38	2				PLW-A6	CVWUCR	33	211121 J24	061	
013	SPIRE PLW Ch05-08 . 5gnd	SPA- -	S105	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J24	036	
006	SPIRE PLW Ch05-08 . 6+	SPA- -	S105	12AXD-38	2				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	062	
019	SPIRE PLW Ch05-08 . 6-	SPA- -	S105	12AXD-38	2				PLW-A9	CVWUCR	33	211121 J24	051	
013	SPIRE PLW Ch05-08 . 6gnd	SPA- -	S105	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J24	036	
020	SPIRE PLW Ch05-08 . 7+	SPA- -	S105	12AXD-38	2				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J24	063	
007	SPIRE PLW Ch05-08 . 7-	SPA- -	S105	12AXD-38	2				PLW-C9	CVWUCR	33	211121 J24	075	
013	SPIRE PLW Ch05-08 . 7gnd	SPA- -	S105	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J24	036	

# Pin Allocation List

(Harness)

**Connector:** 121210 P13  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP7 (C6)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
-													
021	SPIRE PLW Ch05-08 . 8+	SPA-	-	S105	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	074	
008	SPIRE PLW Ch05-08 . 8-	SPA-	-	S105	12AXD-38	2		PLW-B8	CVVUCR	33	211121 J24	073	
013	SPIRE PLW Ch05-08 . 8gnd	SPA-	-	S105	12AXD-38	2		12AX gnd daisy ch to Pin 13	CVVUCR	33	211121 J24	036	
013	SPIRE PLW Ch05-08 . SHD02	SPA-	-	S105	12AXD-38	2		Cable S105 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J24	036	
-	S105 12AXD Outer Shield							Cable S105 outer Shd con to CH (Faraday)					
-													
022	SPIRE PLW Ch09-12 . 9+	SPA-	-	S106	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	083	
009	SPIRE PLW Ch09-12 . 9-	SPA-	-	S106	12AXD-38	3		PLW-B7	CVVUCR	33	211121 J24	072	
013	SPIRE PLW Ch09-12 . 9gnd	SPA-	-	S106	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J24	036	
-													
023	SPIRE PLW Ch09-12 . 10+	SPA-	-	S106	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	095	
010	SPIRE PLW Ch09-12 . 10-	SPA-	-	S106	12AXD-38	3		PLW-C7	CVVUCR	33	211121 J24	084	
013	SPIRE PLW Ch09-12 . 10gnd	SPA-	-	S106	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J24	036	
-													
024	SPIRE PLW Ch09-12 . 11+	SPA-	-	S106	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	096	
011	SPIRE PLW Ch09-12 . 11-	SPA-	-	S106	12AXD-38	3		PLW-B5	CVVUCR	33	211121 J24	085	
013	SPIRE PLW Ch09-12 . 11gnd	SPA-	-	S106	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J24	036	
-													
025	SPIRE PLW Ch09-12 . 12+	SPA-	-	S106	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J24	106	
012	SPIRE PLW Ch09-12 . 12-	SPA-	-	S106	12AXD-38	3		PLW-B6	CVVUCR	33	211121 J24	107	
013	SPIRE PLW Ch09-12 . 12gnd	SPA-	-	S106	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J24	036	
013	SPIRE PLW Ch09-12 . SHD03	SPA-	-	S106	12AXD-38	3		Cable S106 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J24	036	
-	S106 12AXD Outer Shield							Cable S106 outer Shd con to CH (Faraday)					
-													
013	SPIRE PLW B06 GND WIRE A1	SPX-	-	S461	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVV FTIs	CVVUCR	33	211121 J24	036	
-													
-													

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P13  
Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP7 (C6)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3--630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
CH	Outer Shields=Faraday Shds									Faraday Shds con to Backshell ECR0039tbc					
-	Isolation									Harness Branch to be isolated from S/C structure					
-															





# Astrium GmbH

Project: **HERSCHEL**

For wiring Schematic  
see SIH-CS-04 HSJFP P24

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P12

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP6 (C7)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PSW (6) Ch37-40 . 37+	SPC.-	-	S172	12AXD-38	1	1	200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	013	
014	SPIRE PSW (6) Ch37-40 . 37-	SPC.-	-	S172	12AXD-38	1	1	PSW-J8	CWUUCR	33	211121 J25	012	
013	SPIRE PSW (6) Ch37-40 . 37gnd	SPC.-	-	S172	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A4)	CWUUCR	33	211121 J25	004	
002	SPIRE PSW (6) Ch37-40 . 38+	SPC.-	-	S172	12AXD-38	1	1	200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	021	
015	SPIRE PSW (6) Ch37-40 . 38-	SPC.-	-	S172	12AXD-38	1	1	PSW-F9	CWUUCR	33	211121 J25	020	
013	SPIRE PSW (6) Ch37-40 . 38gnd	SPC.-	-	S172	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A4)	CWUUCR	33	211121 J25	004	
003	SPIRE PSW (6) Ch37-40 . 39+	SPC.-	-	S172	12AXD-38	1	1	200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	031	
016	SPIRE PSW (6) Ch37-40 . 39-	SPC.-	-	S172	12AXD-38	1	1	PSW-H9	CWUUCR	33	211121 J25	043	
013	SPIRE PSW (6) Ch37-40 . 39gnd	SPC.-	-	S172	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A4)	CWUUCR	33	211121 J25	004	
004	SPIRE PSW (6) Ch37-40 . 40+	SPC.-	-	S172	12AXD-38	1	1	200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	042	
017	SPIRE PSW (6) Ch37-40 . 40-	SPC.-	-	S172	12AXD-38	1	1	PSW-G9	CWUUCR	33	211121 J25	054	
013	SPIRE PSW (6) Ch37-40 . 40gnd	SPC.-	-	S172	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A4)	CWUUCR	33	211121 J25	004	
013	SPIRE PSW (6) Ch37-40 . SHD01	SPC.-	-	S172	12AXD-38	1	1	Cable S172 Inner Shd daisy ch to Pin 13 (A4)	CWUUCR	33	211121 J25	004	
-	S172 12AXD Outer Shield							Cable S172 outer Shd con to CH (Faraday)					
005	SPIRE PSW (6) Ch41-44 . 41+	SPC.-	-	S173	12AXD-38	2	2	200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	010	
018	SPIRE PSW (6) Ch41-44 . 41-	SPC.-	-	S173	12AXD-38	2	2	PSW-J9	CWUUCR	33	211121 J25	011	
013	SPIRE PSW (6) Ch41-44 . 41gnd	SPC.-	-	S173	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A4)	CWUUCR	33	211121 J25	004	
006	SPIRE PSW (6) Ch41-44 . 42+	SPC.-	-	S173	12AXD-38	2	2	200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	019	
019	SPIRE PSW (6) Ch41-44 . 42-	SPC.-	-	S173	12AXD-38	2	2	PSW-F10	CWUUCR	33	211121 J25	029	
013	SPIRE PSW (6) Ch41-44 . 42gnd	SPC.-	-	S173	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A4)	CWUUCR	33	211121 J25	004	
020	SPIRE PSW (6) Ch41-44 . 43+	SPC.-	-	S173	12AXD-38	2	2	200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	041	
007	SPIRE PSW (6) Ch41-44 . 43-	SPC.-	-	S173	12AXD-38	2	2	PSW-H10	CWUUCR	33	211121 J25	030	
013	SPIRE PSW (6) Ch41-44 . 43gnd	SPC.-	-	S173	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A4)	CWUUCR	33	211121 J25	004	



# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 3)

Connector: 121210 P12

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP6 (C7)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW (6) Ch41-44 . 44+	SPC.-	-	S173	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	053	
008	SPIRE PSW (6) Ch41-44 . 44-	SPC.-	-	S173	12AXD-38	2		PSW-G10	CVVUCR	33	211121 J25	052	
013	SPIRE PSW (6) Ch41-44 . 44gnd	SPC.-	-	S173	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J25	004	
013	SPIRE PSW (6) Ch41-44 . SHD02	SPC.-	-	S173	12AXD-38	2		Cable S173 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J25	004	
-	S173 12AXD Outer Shield							Cable S173 outer Shd con to CH (Faraday)					
022	SPIRE PSW (6) Ch45-48 . 45+	SPC.-	-	S174	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	009	
009	SPIRE PSW (6) Ch45-48 . 45-	SPC.-	-	S174	12AXD-38	3		PSW-F11	CVVUCR	33	211121 J25	017	
013	SPIRE PSW (6) Ch45-48 . 45gnd	SPC.-	-	S174	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J25	004	
023	SPIRE PSW (6) Ch45-48 . 46+	SPC.-	-	S174	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	018	
010	SPIRE PSW (6) Ch45-48 . 46-	SPC.-	-	S174	12AXD-38	3		PSW-J10	CVVUCR	33	211121 J25	028	
013	SPIRE PSW (6) Ch45-48 . 46gnd	SPC.-	-	S174	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J25	004	
024	SPIRE PSW (6) Ch45-48 . 47+	SPC.-	-	S174	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	016	
011	SPIRE PSW (6) Ch45-48 . 47-	SPC.-	-	S174	12AXD-38	3		PSW-H11	CVVUCR	33	211121 J25	027	
013	SPIRE PSW (6) Ch45-48 . 47gnd	SPC.-	-	S174	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J25	004	
025	SPIRE PSW (6) Ch45-48 . 48+	SPC.-	-	S174	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	040	
012	SPIRE PSW (6) Ch45-48 . 48-	SPC.-	-	S174	12AXD-38	3		PSW-G11	CVVUCR	33	211121 J25	039	
013	SPIRE PSW (6) Ch45-48 . 48gnd	SPC.-	-	S174	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J25	004	
013	SPIRE PSW (6) Ch45-48 . SHD03	SPC.-	-	S174	12AXD-38	3		Cable S174 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J25	004	
-	S174 12AXD Outer Shield							Cable S174 outer Shd con to CH (Faraday)					
013	SPIRE PLW B07 GND WIRE A4	SPX.-	-	S474	01050-30			Not a Wire in Cold !! Routed via Cable Shds to CVW FThs	CVVUCR	33	211121 J25	004	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P12

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP6 (C7)

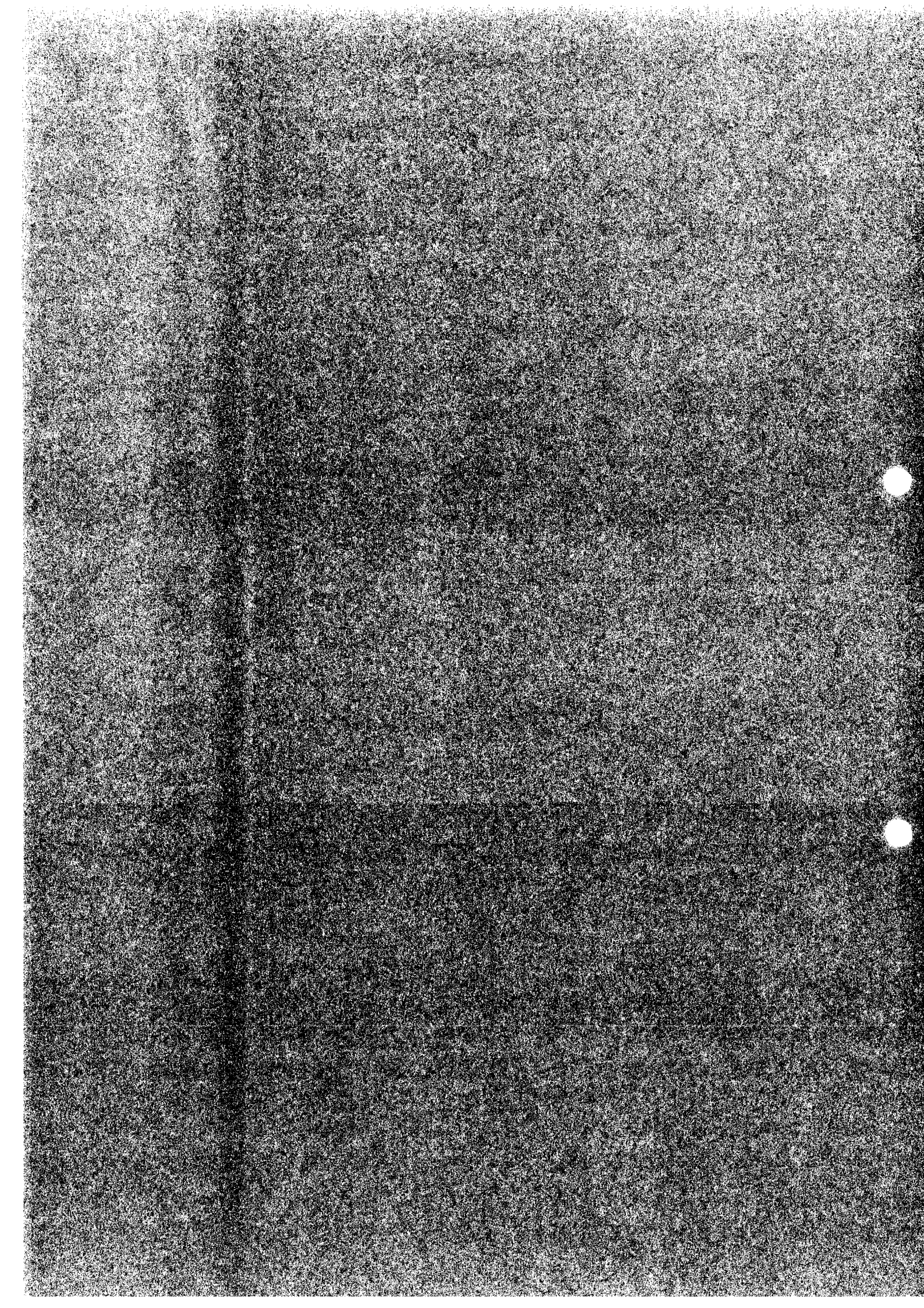
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
-	CH Outer Shields=Faraday Shds						Faraday Shds con to Backshell ECR0039tbc					
-	Isolation						Harness Branch to be isolated from S/C Structure					
-												





# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

For wiring schematic  
see SIH-CS-04 HSJFP P23

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P11

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP6 (C7)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
001	SPIRE PSW (6) Ch25-28 . 25+	SPC.-	-	S167	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	090	
014	SPIRE PSW (6) Ch25-28 . 25-	SPC.-	-	S167	12AXD-38	1	1	PSW-G5	CVVUCR	33	211121 J25	079	
013	SPIRE PSW (6) Ch25-28 . 25gnd	SPC.-	-	S167	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
002	SPIRE PSW (6) Ch25-28 . 26+	SPC.-	-	S167	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	102	
015	SPIRE PSW (6) Ch25-28 . 26-	SPC.-	-	S167	12AXD-38	1	1	PSW-H6	CVVUCR	33	211121 J25	101	
013	SPIRE PSW (6) Ch25-28 . 26gnd	SPC.-	-	S167	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
003	SPIRE PSW (6) Ch25-28 . 27+	SPC.-	-	S167	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	092	
016	SPIRE PSW (6) Ch25-28 . 27-	SPC.-	-	S167	12AXD-38	1	1	PSW-J6	CVVUCR	33	211121 J25	091	
013	SPIRE PSW (6) Ch25-28 . 27gnd	SPC.-	-	S167	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
004	SPIRE PSW (6) Ch25-28 . 28+	SPC.-	-	S167	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	103	
017	SPIRE PSW (6) Ch25-28 . 28-	SPC.-	-	S167	12AXD-38	1	1	PSW-F6	CVVUCR	33	211121 J25	113	
013	SPIRE PSW (6) Ch25-28 . 28gnd	SPC.-	-	S167	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
013	SPIRE PSW (6) Ch25-28 . SHD01	SPC.-	-	S167	12AXD-38	1	1	Cable S167 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
-	S167 12AXD Outer Shield							Cable S167 outer Shd con to CH (Faraday)					
005	SPIRE PSW (6) Ch29-32 . 29+	SPC.-	-	S168	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	058	
018	SPIRE PSW (6) Ch29-32 . 29-	SPC.-	-	S168	12AXD-38	2	2	PSW-G6	CVVUCR	33	211121 J25	046	
013	SPIRE PSW (6) Ch29-32 . 29gnd	SPC.-	-	S168	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
006	SPIRE PSW (6) Ch29-32 . 30+	SPC.-	-	S168	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	068	
019	SPIRE PSW (6) Ch29-32 . 30-	SPC.-	-	S168	12AXD-38	2	2	PSW-H7	CVVUCR	33	211121 J25	057	
013	SPIRE PSW (6) Ch29-32 . 30gnd	SPC.-	-	S168	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
020	SPIRE PSW (6) Ch29-32 . 31+	SPC.-	-	S168	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	069	
007	SPIRE PSW (6) Ch29-32 . 31-	SPC.-	-	S168	12AXD-38	2	2	PSW-F7	CVVUCR	33	211121 J25	080	
013	SPIRE PSW (6) Ch29-32 . 31gnd	SPC.-	-	S168	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	

**Pin Allocation List**  
(Harness)**Connector:** 121210 P11**Item:** HSJFP**EMC-Category:** 2C/Sig H in Cryostat**Function:** SPIRE Bolom. Sign. from HSJFP6 (C7)**Location:** 75 / on SPIRE JFET big**Conn.-Type:** MWDM2L-25S-6C3-.630**Backshell:** 507 T 196 M J25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW (6) Ch29-32 . 32+	SPC.-	-	S168	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	070	
008	SPIRE PSW (6) Ch29-32 . 32-	SPC.-	-	S168	12AXD-38	2		PSW-J7	CVVUCR	33	211121 J25	081	
013	SPIRE PSW (6) Ch29-32 . 32gnd	SPC.-	-	S168	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
013	SPIRE PSW (6) Ch29-32 . SHD02	SPC.-	-	S168	12AXD-38	2		Cable S168 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
-	S168 12AXD Outer Shield							Cable S168 outer Shd con to CH (Faraday)					
022	SPIRE PSW (6) Ch33-36 . 33+	SPC.-	-	S169	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	023	
009	SPIRE PSW (6) Ch33-36 . 33-	SPC.-	-	S169	12AXD-38	3		PSW-G7	CVVUCR	33	211121 J25	034	
013	SPIRE PSW (6) Ch33-36 . 33gnd	SPC.-	-	S169	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
023	SPIRE PSW (6) Ch33-36 . 34+	SPC.-	-	S169	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	033	
010	SPIRE PSW (6) Ch33-36 . 34-	SPC.-	-	S169	12AXD-38	3		PSW-H8	CVVUCR	33	211121 J25	045	
013	SPIRE PSW (6) Ch33-36 . 34gnd	SPC.-	-	S169	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
024	SPIRE PSW (6) Ch33-36 . 35+	SPC.-	-	S169	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	044	
011	SPIRE PSW (6) Ch33-36 . 35-	SPC.-	-	S169	12AXD-38	3		PSW-F8	CVVUCR	33	211121 J25	056	
013	SPIRE PSW (6) Ch33-36 . 35gnd	SPC.-	-	S169	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
025	SPIRE PSW (6) Ch33-36 . 36+	SPC.-	-	S169	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	022	
012	SPIRE PSW (6) Ch33-36 . 36-	SPC.-	-	S169	12AXD-38	3		PSW-G8	CVVUCR	33	211121 J25	032	
013	SPIRE PSW (6) Ch33-36 . 36gnd	SPC.-	-	S169	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
013	SPIRE PSW (6) Ch33-36 . SHD03	SPC.-	-	S169	12AXD-38	3		Cable S169 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J25	047	
-	S169 12AXD Outer Shield							Cable S169 outer Shd con to CH (Faraday)					
013	SPIRE PLW B07 GND WIRE A3	SPX.-	-	S473	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVW FTHs	CVVUCR	33	211121 J25	047	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P11  
Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP6 (C7)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
-	CH Overall Shields=Faraday Shds					Faraday Shds con to Backshell ECR0039tbc					
-	Isolation					Harness Branch to be isolated fro S/C Structure					
-											







# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

For wiring schematic  
See SIH-CS-04 HSJFP P22

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P10  
Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP5 (C7)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
001	SPIRE PSW (5) Ch13-16 . 13+	SPC.-	-	S163	12AXD-38	1				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	086	
014	SPIRE PSW (5) Ch13-16 . 13-	SPC.-	-	S163	12AXD-38	1				PSW-C8	CVWUCR	33	211121 J25	087	
013	SPIRE PSW (5) Ch13-16 . 13gnd	SPC.-	-	S163	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
002	SPIRE PSW (5) Ch13-16 . 14+	SPC.-	-	S163	12AXD-38	1				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	097	
015	SPIRE PSW (5) Ch13-16 . 14-	SPC.-	-	S163	12AXD-38	1				PSW-E8	CVWUCR	33	211121 J25	098	
013	SPIRE PSW (5) Ch13-16 . 14gnd	SPC.-	-	S163	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
003	SPIRE PSW (5) Ch13-16 . 15+	SPC.-	-	S163	12AXD-38	1				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	108	
016	SPIRE PSW (5) Ch13-16 . 15-	SPC.-	-	S163	12AXD-38	1				PSW-D8	CVWUCR	33	211121 J25	109	
013	SPIRE PSW (5) Ch13-16 . 15gnd	SPC.-	-	S163	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
004	SPIRE PSW (5) Ch13-16 . 16+	SPC.-	-	S163	12AXD-38	1				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	116	
017	SPIRE PSW (5) Ch13-16 . 16-	SPC.-	-	S163	12AXD-38	1				PSW-B8	CVWUCR	33	211121 J25	117	
013	SPIRE PSW (5) Ch13-16 . 16gnd	SPC.-	-	S163	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
013	SPIRE PSW (5) Ch13-16 . SHD01	SPC.-	-	S163	12AXD-38	1				Cable S163 inner Shd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
-	S163 12AXD Outer Shield									Cable S163 outer Shd con to CH (Faraday)					
005	SPIRE PSW (5) Ch17-20 . 17+	SPC.-	-	S164	12AXD-38	2				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	055	
018	SPIRE PSW (5) Ch17-20 . 17-	SPC.-	-	S164	12AXD-38	2				PSW-C7	CVWUCR	33	211121 J25	066	
013	SPIRE PSW (5) Ch17-20 . 17gnd	SPC.-	-	S164	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
006	SPIRE PSW (5) Ch17-20 . 18+	SPC.-	-	S164	12AXD-38	2				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	067	
019	SPIRE PSW (5) Ch17-20 . 18-	SPC.-	-	S164	12AXD-38	2				PSW-E7	CVWUCR	33	211121 J25	078	
013	SPIRE PSW (5) Ch17-20 . 18gnd	SPC.-	-	S164	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
020	SPIRE PSW (5) Ch17-20 . 19+	SPC.-	-	S164	12AXD-38	2				200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	076	
007	SPIRE PSW (5) Ch17-20 . 19-	SPC.-	-	S164	12AXD-38	2				PSW-A7	CVWUCR	33	211121 J25	077	
013	SPIRE PSW (5) Ch17-20 . 19gnd	SPC.-	-	S164	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	

# Pin Allocation List (Harness)

**Connector:** 121210 P10

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP5 (C7)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630

**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW (5) Ch17-20 . 20+	SPC.-	-	S164	12AXD-38	2		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	088	
008	SPIRE PSW (5) Ch17-20 . 20-	SPC.-	-	S164	12AXD-38	2		PSW-D7	CVWUCR	33	211121 J25	089	
013	SPIRE PSW (5) Ch17-20 . 20gnd	SPC.-	-	S164	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
013	SPIRE PSW (5) Ch17-20 . SHD02	SPC.-	-	S164	12AXD-38	2		Cable S164 inner Shd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
-	S164 12AXD Outer Shield							Cable S164 outer Shd con to CH (Faraday)					
022	SPIRE PSW (5) Ch21-24 . 21+	SPC.-	-	S165	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	099	
009	SPIRE PSW (5) Ch21-24 . 21-	SPC.-	-	S165	12AXD-38	3		PSW-B7	CVWUCR	33	211121 J25	100	
013	SPIRE PSW (5) Ch21-24 . 21gnd	SPC.-	-	S165	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
023	SPIRE PSW (5) Ch21-24 . 22+	SPC.-	-	S165	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	110	
010	SPIRE PSW (5) Ch21-24 . 22-	SPC.-	-	S165	12AXD-38	3		PSW-C6	CVWUCR	33	211121 J25	111	
013	SPIRE PSW (5) Ch21-24 . 22gnd	SPC.-	-	S165	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
024	SPIRE PSW (5) Ch21-24 . 23+	SPC.-	-	S165	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	118	
011	SPIRE PSW (5) Ch21-24 . 23-	SPC.-	-	S165	12AXD-38	3		PSW-E6	CVWUCR	33	211121 J25	119	
013	SPIRE PSW (5) Ch21-24 . 23gnd	SPC.-	-	S165	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
025	SPIRE PSW (5) Ch21-24 . 24+	SPC.-	-	S165	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J25	112	
012	SPIRE PSW (5) Ch21-24 . 24-	SPC.-	-	S165	12AXD-38	3		PSW-A6	CVWUCR	33	211121 J25	120	
013	SPIRE PSW (5) Ch21-24 . 24gnd	SPC.-	-	S165	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
013	SPIRE PSW (5) Ch21-24 . SHD03	SHD	SPC.-	S165	12AXD-38	3		Cable S165 inner Shd daisy ch to Pin 13 (A2)	CVWUCR	33	211121 J25	128	
-	S165 12AXD Outer Shield							Cable S165 outer Shd con to CH (Faraday)					
013	SPIRE PLW B07 GND WIRE A2	SPX.-	-	S472	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVV FTThs	CVWUCR	33	211121 J25	128	

**Astrium GmbH**

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P10

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP5 (C7)

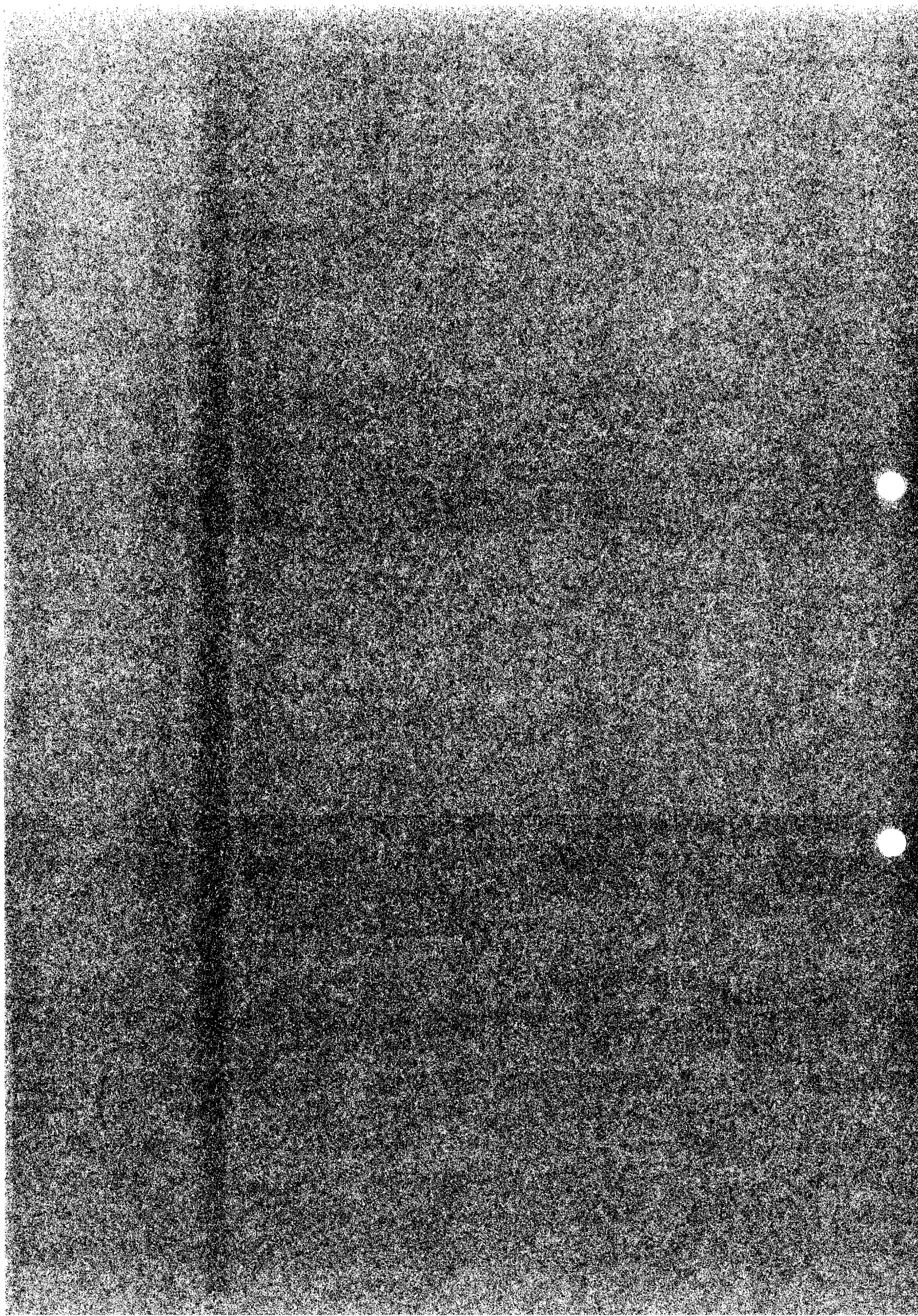
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
CH	Outer Shields=Faraday Shds					Faraday Shds con to Backshell ECR0039tbc					
-	Isolation					Harness Branch to be isolated from S/C Structure					
-											





# Astrium GmbH

Project: **HERSCHEL**

For wiring Schematic  
See SIH-CS-04 HSJFP P21

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P09  
Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HDJFP5 (C7)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PSW (5) Ch01-04 . 1+	SPC.-	-	S158	12AXD-38	1		200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	026	
014	SPIRE PSW (5) Ch01-04 . 1-	SPC.-	-	S158	12AXD-38	1		PSW-D11	CWUUCR	33	211121 J25	037	
013	SPIRE PSW (5) Ch01-04 . 1gnd	SPC.-	-	S158	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A1)	CWUUCR	33	211121 J25	036	
002	SPIRE PSW (5) Ch01-04 . 2+	SPC.-	-	S158	12AXD-38	1		200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	038	
015	SPIRE PSW (5) Ch01-04 . 2-	SPC.-	-	S158	12AXD-38	1		PSW-A10	CWUUCR	33	211121 J25	049	
013	SPIRE PSW (5) Ch01-04 . 2gnd	SPC.-	-	S158	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A1)	CWUUCR	33	211121 J25	036	
003	SPIRE PSW (5) Ch01-04 . 3+	SPC.-	-	S158	12AXD-38	1		200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	048	
016	SPIRE PSW (5) Ch01-04 . 3-	SPC.-	-	S158	12AXD-38	1		PSW-E10	CWUUCR	33	211121 J25	060	
013	SPIRE PSW (5) Ch01-04 . 3gnd	SPC.-	-	S158	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A1)	CWUUCR	33	211121 J25	036	
004	SPIRE PSW (5) Ch01-04 . 4+	SPC.-	-	S158	12AXD-38	1		200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	059	
017	SPIRE PSW (5) Ch01-04 . 4-	SPC.-	-	S158	12AXD-38	1		PSW-C10	CWUUCR	33	211121 J25	071	
013	SPIRE PSW (5) Ch01-04 . 4gnd	SPC.-	-	S158	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A1)	CWUUCR	33	211121 J25	036	
013	SPIRE PSW (5) Ch01-04 . SHD01	SPC.-	-	S158	12AXD-38	1		Cable S158 inner Shd daisy ch to Pin 13 (A1)	CWUUCR	33	211121 J25	036	
-	S158 12ADX Outer Shield							Cable S158 outer Shd con to CH (Faraday)					
005	SPIRE PSW (5) Ch05-08 . 5+	SPC.-	-	S159	12AXD-38	2		200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	050	
018	SPIRE PSW (5) Ch05-08 . 5-	SPC.-	-	S159	12AXD-38	2		PSW-B10	CWUUCR	33	211121 J25	061	
013	SPIRE PSW (5) Ch05-08 . 5gnd	SPC.-	-	S159	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A1)	CWUUCR	33	211121 J25	036	
006	SPIRE PSW (5) Ch05-08 . 6+	SPC.-	-	S159	12AXD-38	2		200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	062	
019	SPIRE PSW (5) Ch05-08 . 6-	SPC.-	-	S159	12AXD-38	2		PSW-D10	CWUUCR	33	211121 J25	051	
013	SPIRE PSW (5) Ch05-08 . 6gnd	SPC.-	-	S159	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A1)	CWUUCR	33	211121 J25	036	
020	SPIRE PSW (5) Ch05-08 . 7+	SPC.-	-	S159	12AXD-38	2		200 Ohm/1.0E-09 A	CWUUCR	33	211121 J25	063	
007	SPIRE PSW (5) Ch05-08 . 7-	SPC.-	-	S159	12AXD-38	2		PSW-A9	CWUUCR	33	211121 J25	075	
013	SPIRE PSW (5) Ch05-08 . 7gnd	SPC.-	-	S159	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A1)	CWUUCR	33	211121 J25	036	



**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
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**Connector:** 121210 P09  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HDJFP5 (C7)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW (5) Ch05-08 . 8+	SPC.-	-	S159	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	074	
008	SPIRE PSW (5) Ch05-08 . 8-	SPC.-	-	S159	12AXD-38	2		PSW-E9	CVVUCR	33	211121 J25	073	
013	SPIRE PSW (5) Ch05-08 . 8gnd	SPC.-	-	S159	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J25	036	
013	SPIRE PSW (5) Ch05-08 . SHD02	SPC.-	-	S159	12AXD-38	2		Cable S159 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J25	036	
-	S159 12AXD Outer Shield							Cable S159 outer Shd con to CH (Faraday)					
022	SPIRE PSW (5) Ch09-12 . 9+	SPC.-	-	S160	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	083	
009	SPIRE PSW (5) Ch09-12 . 9-	SPC.-	-	S160	12AXD-38	3		PSW-C9	CVVUCR	33	211121 J25	072	
013	SPIRE PSW (5) Ch09-12 . 9gnd	SPC.-	-	S160	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J25	036	
023	SPIRE PSW (5) Ch09-12 . 10+	SPC.-	-	S160	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	095	
010	SPIRE PSW (5) Ch09-12 . 10-	SPC.-	-	S160	12AXD-38	3		PSW-B9	CVVUCR	33	211121 J25	084	
013	SPIRE PSW (5) Ch09-12 . 10gnd	SPC.-	-	S160	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J25	036	
024	SPIRE PSW (5) Ch09-12 . 11+	SPC.-	-	S160	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	096	
011	SPIRE PSW (5) Ch09-12 . 11-	SPC.-	-	S160	12AXD-38	3		PSW-D9	CVVUCR	33	211121 J25	085	
013	SPIRE PSW (5) Ch09-12 . 11gnd	SPC.-	-	S160	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J25	036	
025	SPIRE PSW (5) Ch09-12 . 12+	SPC.-	-	S160	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J25	106	
012	SPIRE PSW (5) Ch09-12 . 12-	SPC.-	-	S160	12AXD-38	3		PSW-A8	CVVUCR	33	211121 J25	107	
013	SPIRE PSW (5) Ch09-12 . 12gnd	SPC.-	-	S160	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J25	036	
013	SPIRE PSW (5) Ch09-12 . SHD03	SHD	SPC.-	S160	12AXD-38	3		Cable S160 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J25	036	
-	S160 122AXD Outer Shield							Cable S160 outer Shd con to CH (Faraday)					
13	SPIRE PLW B07 GND WIRE A1	SPX.-	-	S471	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVW FTths	CVVUCR	33	211121 J25	036	



Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 121210 P09

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HDJFP5 (C7)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
-	CH Outer Shds= Farady Shds							Faraday Shds con to Backshell ECR0039tbc					
-	Isolation							Harness Branch to be isolated from S/C Structure					
-													





For wiring schematic  
 see S11t-CS-04 HSJFP P24

**Connector:** 121210 P08  
**Item:** HSJFP

**Function:** SPIRE Bolom. Sign. from HSJFP4 (C8)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630  
**Backshell:** 507 T 196 M 25

**EMC-Category:** 2C/Sig H in Cryostat

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
001	SPIRE PSW (4) Ch37-40 . 37+	SPC.- -	S154	12AXD-38	1	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	013	
014	SPIRE PSW (4) Ch37-40 . 37-	SPC.- -	S154	12AXD-38	1	1		PSW-J13	CVVUCR	33	211121 J27	012	
013	SPIRE PSW (4) Ch37-40 . 37gnd	SPC.- -	S154	12AXD-38	1	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
002	SPIRE PSW (4) Ch37-40 . 38+	SPC.- -	S154	12AXD-38	1	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	021	
015	SPIRE PSW (4) Ch37-40 . 38-	SPC.- -	S154	12AXD-38	1	1		PSW-H14	CVVUCR	33	211121 J27	020	
013	SPIRE PSW (4) Ch37-40 . 38gnd	SPC.- -	S154	12AXD-38	1	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
003	SPIRE PSW (4) Ch37-40 . 39+	SPC.- -	S154	12AXD-38	1	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	031	
016	SPIRE PSW (4) Ch37-40 . 39-	SPC.- -	S154	12AXD-38	1	1		PSW-G14	CVVUCR	33	211121 J27	043	
013	SPIRE PSW (4) Ch37-40 . 39gnd	SPC.- -	S154	12AXD-38	1	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
004	SPIRE PSW (4) Ch37-40 . 40+	SPC.- -	S154	12AXD-38	1	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	042	
017	SPIRE PSW (4) Ch37-40 . 40-	SPC.- -	S154	12AXD-38	1	1		PSW-J14	CVVUCR	33	211121 J27	054	
013	SPIRE PSW (4) Ch37-40 . 40gnd	SPC.- -	S154	12AXD-38	1	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
013	SPIRE PSW (4) Ch37-40 . SHD01	SPC.- -	S154	12AXD-38	1	1		Cable S154 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
-	S154 12AXD Outer Shield							Cable S154 outer Shd con to CH (Faraday)					
005	SPIRE PSW (4) Ch41-44 . 41+	SPC.- -	S155	12AXD-38	2	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	010	
018	SPIRE PSW (4) Ch41-44 . 41-	SPC.- -	S155	12AXD-38	2	2		PSW-F15	CVVUCR	33	211121 J27	011	
013	SPIRE PSW (4) Ch41-44 . 41gnd	SPC.- -	S155	12AXD-38	2	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
006	SPIRE PSW (4) Ch41-44 . 42+	SPC.- -	S155	12AXD-38	2	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	019	
019	SPIRE PSW (4) Ch41-44 . 42-	SPC.- -	S155	12AXD-38	2	2		PSW-H15	CVVUCR	33	211121 J27	029	
013	SPIRE PSW (4) Ch41-44 . 42gnd	SPC.- -	S155	12AXD-38	2	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
020	SPIRE PSW (4) Ch41-44 . 43+	SPC.- -	S155	12AXD-38	2	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	041	
007	SPIRE PSW (4) Ch41-44 . 43-	SPC.- -	S155	12AXD-38	2	2		PSW-J15	CVVUCR	33	211121 J27	030	
013	SPIRE PSW (4) Ch41-44 . 43gnd	SPC.- -	S155	12AXD-38	2	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	

# Pin Allocation List

## (Harness)

Doc.No.: HP-2-ASED-IC-0016

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Project: **HERSCHEL****Connector:** 121210 P08**Item:** HSJFP**EMC-Category:** 2C/Sig H in Cryostat**Function:** SPIRE Bolom. Sign. from HSJFP4 (C8)**Location:** 75 / on SPIRE JFET big**Conn.-Type:** MWDM2L-25S-6C3-.630**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW (4) Ch41-44 . 44+	SPC.-	-	S155	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	053	
008	SPIRE PSW (4) Ch41-44 . 44-	SPC.-	-	S155	12AXD-38	2		PSW-G15	CVVUCR	33	211121 J27	052	
013	SPIRE PSW (4) Ch41-44 . 44gnd	SPC.-	-	S155	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
013	SPIRE PSW (4) Ch41-44 . SHD02	SPC.-	-	S155	12AXD-38	2		Cable S155 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
-	S155 12AXD Outer Shield							Cable S155 outer Shd con to CH (Faraday)					
022	SPIRE PSW (4) Ch45-48 . 45+	SPC.-	-	S156	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	009	
009	SPIRE PSW (4) Ch45-48 . 45-	SPC.-	-	S156	12AXD-38	3		PSW-H16	CVVUCR	33	211121 J27	017	
013	SPIRE PSW (4) Ch45-48 . 45gnd	SPC.-	-	S156	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
023	SPIRE PSW (4) Ch45-48 . 46+	SPC.-	-	S156	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	018	
010	SPIRE PSW (4) Ch45-48 . 46-	SPC.-	-	S156	12AXD-38	3		PSW-DK2	CVVUCR	33	211121 J27	028	
013	SPIRE PSW (4) Ch45-48 . 46gnd	SPC.-	-	S156	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
024	SPIRE PSW (4) Ch45-48 . 47+	SPC.-	-	S156	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	016	
011	SPIRE PSW (4) Ch45-48 . 47-	SPC.-	-	S156	12AXD-38	3		PSW-F16	CVVUCR	33	211121 J27	027	
013	SPIRE PSW (4) Ch45-48 . 47gnd	SPC.-	-	S156	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
025	SPIRE PSW (4) Ch45-48 . 48+	SPC.-	-	S156	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	040	
012	SPIRE PSW (4) Ch45-48 . 48-	SPC.-	-	S156	12AXD-38	3		PSW-E15	CVVUCR	33	211121 J27	039	
013	SPIRE PSW (4) Ch45-48 . 48gnd	SPC.-	-	S156	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
013	SPIRE PSW (4) Ch45-48 . SHD03	SPC.-	-	S156	12AXD-38	3		Cable S156 inner Shd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J27	004	
-	S156 12AXD Outer Shield							Cable S156 outer Shd con to CH (Faraday)					
013	SPIRE PLW B08 GND WIRE A4	SPX.-	-	S484	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVW FTSh	CVVUCR	33	211121 J27	004	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-I-0016  
Issue: 1.0 Date: 21.04.2004  
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Connector: 121210 P08  
Item: HSJFP

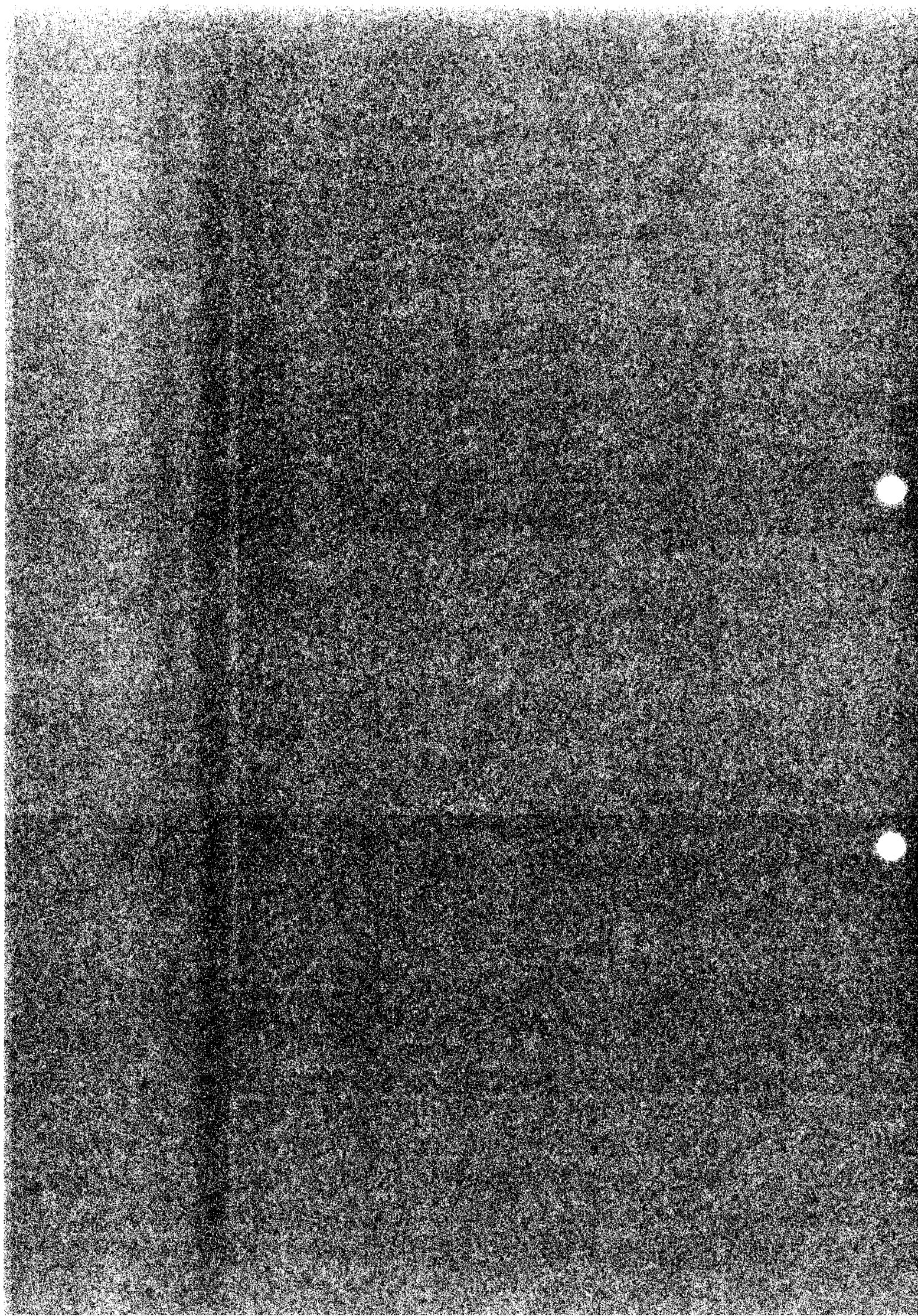
EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP4 (C8)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal	Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
-	CH Outer Shields=Faraday Shds						Faraday Shds con to Backshell ECR0039tbc					
-	Isolation						Harness Branch to be isolated from S/C Structure					
-												







**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-1 (of 3)

For wiring Schematic  
 see SIH-CS-04 HSJFP P23

**Connector:** 121210 P07  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP4 (C8)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
001	SPIRE PSW (4) Ch25-28 . 25+	SPC.-	-	S149	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	090	
014	SPIRE PSW (4) Ch25-28 . 25-	SPC.-	-	S149	12AXD-38	1	1	PSW-F12	CVVUCR	33	211121 J27	079	
013	SPIRE PSW (4) Ch25-28 . 25gnd	SPC.-	-	S149	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
002	SPIRE PSW (4) Ch25-28 . 26+	SPC.-	-	S149	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	102	
015	SPIRE PSW (4) Ch25-28 . 26-	SPC.-	-	S149	12AXD-38	1	1	PSW-J11	CVVUCR	33	211121 J27	101	
013	SPIRE PSW (4) Ch25-28 . 26gnd	SPC.-	-	S149	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
003	SPIRE PSW (4) Ch25-28 . 27+	SPC.-	-	S149	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	092	
016	SPIRE PSW (4) Ch25-28 . 27-	SPC.-	-	S149	12AXD-38	1	1	PSW-E12	CVVUCR	33	211121 J27	091	
013	SPIRE PSW (4) Ch25-28 . 27gnd	SPC.-	-	S149	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
004	SPIRE PSW (4) Ch25-28 . 28+	SPC.-	-	S149	12AXD-38	1	1	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	103	
017	SPIRE PSW (4) Ch25-28 . 28-	SPC.-	-	S149	12AXD-38	1	1	PSW-H12	CVVUCR	33	211121 J27	113	
013	SPIRE PSW (4) Ch25-28 . 28gnd	SPC.-	-	S149	12AXD-38	1	1	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
013	SPIRE PSW (4) Ch25-28 . SHD01	SPC.-	-	S149	12AXD-38	1	1	Cable S149 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
-	S149 12AXD Outer Shield							Cable S149 outer Shd con to CH (Faraday)					
005	SPIRE PSW (4) Ch29-32 . 29+	SPC.-	-	S150	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	058	
018	SPIRE PSW (4) Ch29-32 . 29-	SPC.-	-	S150	12AXD-38	2	2	PSW-G12	CVVUCR	33	211121 J27	046	
013	SPIRE PSW (4) Ch29-32 . 29gnd	SPC.-	-	S150	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
006	SPIRE PSW (4) Ch29-32 . 30+	SPC.-	-	S150	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	068	
019	SPIRE PSW (4) Ch29-32 . 30-	SPC.-	-	S150	12AXD-38	2	2	PSW-F13	CVVUCR	33	211121 J27	057	
013	SPIRE PSW (4) Ch29-32 . 30gnd	SPC.-	-	S150	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
020	SPIRE PSW (4) Ch29-32 . 31+	SPC.-	-	S150	12AXD-38	2	2	200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	069	
007	SPIRE PSW (4) Ch29-32 . 31-	SPC.-	-	S150	12AXD-38	2	2	PSW-E13	CVVUCR	33	211121 J27	080	
013	SPIRE PSW (4) Ch29-32 . 31gnd	SPC.-	-	S150	12AXD-38	2	2	12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	

**Pin Allocation List**  
(Harness)**Connector:** 121210 P07**Item:** HSJFP**EMC-Category:** 2C/Sig H in Cryostat**Function:** SPIRE Bolom. Sign. from HSJFP4 (C8)**Location:** 75 / on SPIRE JFET big**Conn.-Type:** MWDM2L-25S-6C3-.630**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW (4) Ch29-32 . 32+	SPC.-	-	S150	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	070	
008	SPIRE PSW (4) Ch29-32 . 32-	SPC.-	-	S150	12AXD-38	2		PSW-J12	CVVUCR	33	211121 J27	081	
013	SPIRE PSW (4) Ch29-32 . 32gnd	SPC.-	-	S150	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
013	SPIRE PSW (4) Ch29-32 . SHD02	SPC.-	-	S150	12AXD-38	2		Cable S150 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
-	S150 12AXD Outer Shield							Cable S150 outer Shd con to CH (Faraday)					
-													
022	SPIRE PSW (4) Ch33-36 . 33+	SPC.-	-	S151	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	023	
009	SPIRE PSW (4) Ch33-36 . 33-	SPC.-	-	S151	12AXD-38	3		PSW-H13	CVVUCR	33	211121 J27	034	
013	SPIRE PSW (4) Ch33-36 . 33gnd	SPC.-	-	S151	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
-													
023	SPIRE PSW (4) Ch33-36 . 34+	SPC.-	-	S151	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	033	
010	SPIRE PSW (4) Ch33-36 . 34-	SPC.-	-	S151	12AXD-38	3		PSW-G13	CVVUCR	33	211121 J27	045	
013	SPIRE PSW (4) Ch33-36 . 34gnd	SPC.-	-	S151	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
-													
024	SPIRE PSW (4) Ch33-36 . 35+	SPC.-	-	S151	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	044	
011	SPIRE PSW (4) Ch33-36 . 35-	SPC.-	-	S151	12AXD-38	3		PSW-F14	CVVUCR	33	211121 J27	056	
013	SPIRE PSW (4) Ch33-36 . 35gnd	SPC.-	-	S151	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
-													
025	SPIRE PSW (4) Ch33-36 . 36+	SPC.-	-	S151	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	022	
012	SPIRE PSW (4) Ch33-36 . 36-	SPC.-	-	S151	12AXD-38	3		PSW-E14	CVVUCR	33	211121 J27	032	
013	SPIRE PSW (4) Ch33-36 . 36gnd	SPC.-	-	S151	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
013	SPIRE PSW (4) Ch33-36 . SHD03	SPC.-	-	S151	12AXD-38	3		Cable S151 inner Shd daisy ch to Pin 13 (A3)	CVVUCR	33	211121 J27	047	
-	S151 12AXD Outer Shield							Cable S151 outer Shd con to CH (Faraday)					
-													
013	SPIRE PLW B08 GND WIRE A3	SPX.-	-	S483	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVW FTHs	CVVUCR	33	211121 J27	047	
-													

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P07  
Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP4 (C8)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
-	CH Outer Shields=Faraday Shds					Farady Shds con to Backshell ECR0039tbc					
-	Isolation					Harness Branch to be isolated from S/C Structure					
-											





# Astrium GmbH

Project: **HERSCHEL**

For wiring schematic  
see SIH-CS-04 HSJFP P22

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P06

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP3 (C8)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3--630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PSW (3) Ch13-16 . 13+	SPC.-	-	S145	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	086	
014	SPIRE PSW (3) Ch13-16 . 13-	SPC.-	-	S145	12AXD-38	1		PSW-B3	CVVUCR	33	211121 J27	087	
013	SPIRE PSW (3) Ch13-16 . 13gnd	SPC.-	-	S145	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
002	SPIRE PSW (3) Ch13-16 . 14+	SPC.-	-	S145	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	097	
015	SPIRE PSW (3) Ch13-16 . 14-	SPC.-	-	S145	12AXD-38	1		PSW-A3	CVVUCR	33	211121 J27	098	
013	SPIRE PSW (3) Ch13-16 . 14gnd	SPC.-	-	S145	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
003	SPIRE PSW (3) Ch13-16 . 15+	SPC.-	-	S145	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	108	
016	SPIRE PSW (3) Ch13-16 . 15-	SPC.-	-	S145	12AXD-38	1		PSW-A2	CVVUCR	33	211121 J27	109	
013	SPIRE PSW (3) Ch13-16 . 15gnd	SPC.-	-	S145	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
004	SPIRE PSW (3) Ch13-16 . 16+	SPC.-	-	S145	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	116	
017	SPIRE PSW (3) Ch13-16 . 16-	SPC.-	-	S145	12AXD-38	1		PSW-D3	CVVUCR	33	211121 J27	117	
013	SPIRE PSW (3) Ch13-16 . 16gnd	SPC.-	-	S145	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
013	SPIRE PSW (3) Ch13-16 . SHD01	SPC.-	-	S145	12AXD-38	1		Cable S145 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
-	S145 12AXD Outer Shield							Cable S145 outer Shd con to CH (Faraday)					
005	SPIRE PSW (3) Ch17-20 . 17+	SPC.-	-	S146	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	055	
018	SPIRE PSW (3) Ch17-20 . 17-	SPC.-	-	S146	12AXD-38	2		PSW-C2	CVVUCR	33	211121 J27	066	
013	SPIRE PSW (3) Ch17-20 . 17gnd	SPC.-	-	S146	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
006	SPIRE PSW (3) Ch17-20 . 18+	SPC.-	-	S146	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	067	
019	SPIRE PSW (3) Ch17-20 . 18-	SPC.-	-	S146	12AXD-38	2		PSW-B2	CVVUCR	33	211121 J27	078	
013	SPIRE PSW (3) Ch17-20 . 18gnd	SPC.-	-	S146	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
020	SPIRE PSW (3) Ch17-20 . 19+	SPC.-	-	S146	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	076	
007	SPIRE PSW (3) Ch17-20 . 19-	SPC.-	-	S146	12AXD-38	2		PSW-D2	CVVUCR	33	211121 J27	077	
013	SPIRE PSW (3) Ch17-20 . 19gnd	SPC.-	-	S146	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	

# Pin Allocation List (Harness)

**Connector:** 121210 P06

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP3 (C8)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630

**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
021	SPIRE PSW (3) Ch17-20 . 20+	SPC.-	-	S146	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	088	
008	SPIRE PSW (3) Ch17-20 . 20-	SPC.-	-	S146	12AXD-38	2		PSW-A1	CVVUCR	33	211121 J27	089	
013	SPIRE PSW (3) Ch17-20 . 20gnd	SPC.-	-	S146	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
013	SPIRE PSW (3) Ch17-20 . SHD02	SPC.-	-	S146	12AXD-38	2		Cable S145 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
-	S146 12AXD Outer Shield							Cable S145 outer Shd con to CH (Faraday)					
022	SPIRE PSW (3) Ch21-24 . 21+	SPC.-	-	S147	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	099	
009	SPIRE PSW (3) Ch21-24 . 21-	SPC.-	-	S147	12AXD-38	3		PSW-C1	CVVUCR	33	211121 J27	100	
013	SPIRE PSW (3) Ch21-24 . 21gnd	SPC.-	-	S147	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
023	SPIRE PSW (3) Ch21-24 . 22+	SPC.-	-	S147	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	110	
010	SPIRE PSW (3) Ch21-24 . 22-	SPC.-	-	S147	12AXD-38	3		PSW-B1	CVVUCR	33	211121 J27	111	
013	SPIRE PSW (3) Ch21-24 . 22gnd	SPC.-	-	S147	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
024	SPIRE PSW (3) Ch21-24 . 23+	SPC.-	-	S147	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	118	
011	SPIRE PSW (3) Ch21-24 . 23-	SPC.-	-	S147	12AXD-38	3		PSW-DK1	CVVUCR	33	211121 J27	119	
013	SPIRE PSW (3) Ch21-24 . 23gnd	SPC.-	-	S147	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
025	SPIRE PSW (3) Ch21-24 . 24+	SPC.-	-	S147	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	112	
012	SPIRE PSW (3) Ch21-24 . 24-	SPC.-	-	S147	12AXD-38	3		PSW-D1	CVVUCR	33	211121 J27	120	
013	SPIRE PSW (3) Ch21-24 . 24gnd	SPC.-	-	S147	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
013	SPIRE PSW (3) Ch21-24 . SHD03	SPC.-	-	S147	12AXD-38	3		Cable S145 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J27	128	
-	S147 12AXD Outer Shield							Cable S145 outer Shd con to CH (Faraday)					
013	SPIRE PLW B08 GND WIRE A2	SPX.-	-	S482	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVV FTHs	CVVUCR	33	211121 J27	128	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P06

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP3 (C8)

Location: 75 / on SPIRE JFET big

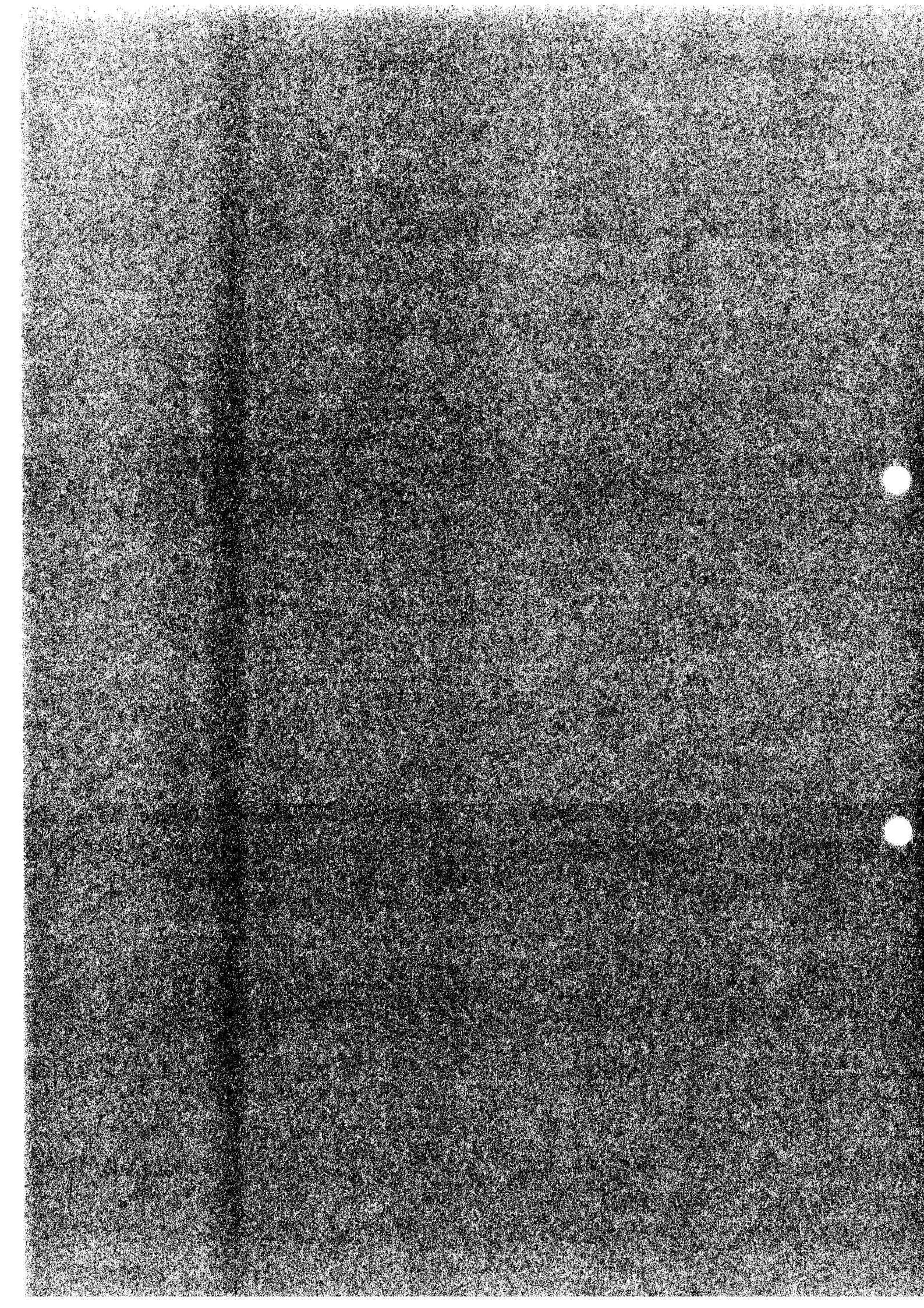
Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
-	CH Outer Shields= Faraday Shds						Faraday Shds con to Backshell ECR0039tbc					
-	Isolation						Harness Branch to be isolated from S/C Structure					
-												







# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

For wiring schematic  
see S1H-Cs-04 HSJFP P21

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P05

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP3 (C8)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
001	SPIRE PSW (3) Ch01-04 . 1+	SPC.- -	S140	12AXD-38 1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	026	
014	SPIRE PSW (3) Ch01-04 . 1-	SPC.- -	S140	12AXD-38 1		PSW-D6	CVVUCR	33	211121 J27	037	
013	SPIRE PSW (3) Ch01-04 . 1gnd	SPC.- -	S140	12AXD-38 1		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J27	036	
002	SPIRE PSW (3) Ch01-04 . 2+	SPC.- -	S140	12AXD-38 1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	038	
015	SPIRE PSW (3) Ch01-04 . 2-	SPC.- -	S140	12AXD-38 1		PSW-B6	CVVUCR	33	211121 J27	049	
013	SPIRE PSW (3) Ch01-04 . 2gnd	SPC.- -	S140	12AXD-38 1		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J27	036	
003	SPIRE PSW (3) Ch01-04 . 3+	SPC.- -	S140	12AXD-38 1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	048	
016	SPIRE PSW (3) Ch01-04 . 3-	SPC.- -	S140	12AXD-38 1		PSW-C5	CVVUCR	33	211121 J27	060	
013	SPIRE PSW (3) Ch01-04 . 3gnd	SPC.- -	S140	12AXD-38 1		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J27	036	
004	SPIRE PSW (3) Ch01-04 . 4+	SPC.- -	S140	12AXD-38 1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	059	
017	SPIRE PSW (3) Ch01-04 . 4-	SPC.- -	S140	12AXD-38 1		PSW-A5	CVVUCR	33	211121 J27	071	
013	SPIRE PSW (3) Ch01-04 . 4gnd	SPC.- -	S140	12AXD-38 1		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J27	036	
013	SPIRE PSW (3) Ch01-04 . SHD01	SHD	S140	12AXD-38 1		Cable S140 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J27	036	
-	S140 12AXD Outer Shield					Cable S140 outer Shd con to CH (Faraday)					
005	SPIRE PSW (3) Ch05-08 . 5+	SPC.- -	S141	12AXD-38 2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	050	
018	SPIRE PSW (3) Ch05-08 . 5-	SPC.- -	S141	12AXD-38 2		PSW-E5	CVVUCR	33	211121 J27	061	
013	SPIRE PSW (3) Ch05-08 . 5gnd	SPC.- -	S141	12AXD-38 2		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J27	036	
006	SPIRE PSW (3) Ch05-08 . 6+	SPC.- -	S141	12AXD-38 2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	062	
019	SPIRE PSW (3) Ch05-08 . 6-	SPC.- -	S141	12AXD-38 2		PSW-B5	CVVUCR	33	211121 J27	051	
013	SPIRE PSW (3) Ch05-08 . 6gnd	SPC.- -	S141	12AXD-38 2		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J27	036	
020	SPIRE PSW (3) Ch05-08 . 7+	SPC.- -	S141	12AXD-38 2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J27	063	
007	SPIRE PSW (3) Ch05-08 . 7-	SPC.- -	S141	12AXD-38 2		PSW-D5	CVVUCR	33	211121 J27	075	
013	SPIRE PSW (3) Ch05-08 . 7gnd	SPC.- -	S141	12AXD-38 2		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J27	036	

**Astrium GmbH**  
Project: **HERSCHEL**

**Pin Allocation List**  
(Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 3)

**Connector:** 121210 P05  
**Item:** HSJFP  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP3 (C8)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-630  
**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal	Pos.	Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
						Shd	Cable Twist						
021	SPIRE PSW (3) Ch05-08 . 8+	SPC.-	-	S141	12AXD-38	2		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J27	074	
008	SPIRE PSW (3) Ch05-08 . 8-	SPC.-	-	S141	12AXD-38	2		PSW-C4	CVWUCR	33	211121 J27	073	
013	SPIRE PSW (3) Ch05-08 . 8gnd	SPC.-	-	S141	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J27	036	
013	SPIRE PSW (3) Ch05-08 . SHD02	SPC.-	-	S141	12AXD-38	2		Cable S141 inner Shd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J27	036	
-	S141 12AXD Outer Shield							Cable S141 outer Shd con to CH (Faraday)					
-													
022	SPIRE PSW (3) Ch09-12 . 9+	SPC.-	-	S142	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J27	083	
009	SPIRE PSW (3) Ch09-12 . 9-	SPC.-	-	S142	12AXD-38	3		PSW-A4	CVWUCR	33	211121 J27	072	
013	SPIRE PSW (3) Ch09-12 . 9gnd	SPC.-	-	S142	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J27	036	
-													
023	SPIRE PSW (3) Ch09-12 . 10+	SPC.-	-	S142	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J27	095	
010	SPIRE PSW (3) Ch09-12 . 10-	SPC.-	-	S142	12AXD-38	3		PSW-D4	CVWUCR	33	211121 J27	084	
013	SPIRE PSW (3) Ch09-12 . 10gnd	SPC.-	-	S142	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J27	036	
-													
024	SPIRE PSW (3) Ch09-12 . 11+	SPC.-	-	S142	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J27	096	
011	SPIRE PSW (3) Ch09-12 . 11-	SPC.-	-	S142	12AXD-38	3		PSW-B4	CVWUCR	33	211121 J27	085	
013	SPIRE PSW (3) Ch09-12 . 11gnd	SPC.-	-	S142	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J27	036	
-													
025	SPIRE PSW (3) Ch09-12 . 12+	SPC.-	-	S142	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J27	106	
012	SPIRE PSW (3) Ch09-12 . 12-	SPC.-	-	S142	12AXD-38	3		PSW-C3	CVWUCR	33	211121 J27	107	
013	SPIRE PSW (3) Ch09-12 . 12gnd	SPC.-	-	S142	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J27	036	
013	SPIRE PSW (3) Ch09-12 . SHD03	SPC.-	-	S142	12AXD-38	3		Cable S142 inner Shd daisy ch to Pin 13 (A1)	CVWUCR	33	211121 J27	036	
-	S142 12AXD Outer Shield							Cable S142 outer Shd con to CH (Faraday)					
-													
013	SPIRE PLW B08 GND WIRE A1	SPX.-	-	S481	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVV FThs	CVWUCR	33	211121 J27	036	
-													

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P05

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP3 (C8)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
-	CH Outer Shields=Faraday Shds						Faraday Shds con to Backshell ECR0039tbc					
-	Isolation						Harness Branch to be isolated fro S/C Structure					
-												





# Pin Allocation List

(Harness)

Connector: 121210 P04

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP2 (C9)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PSW Ch37-40 . 37+	SPC.-	-	S136	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	013	
014	SPIRE PSW Ch37-40 . 37-	SPC.-	-	S136	12AXD-38	1		PSW-E2	CVVUCR	33	211121 J28	012	
013	SPIRE PSW Ch37-40 . 37gnd	SPC.-	-	S136	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
002	SPIRE PSW Ch37-40 . 38+	SPC.-	-	S136	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	021	
015	SPIRE PSW Ch37-40 . 38-	SPC.-	-	S136	12AXD-38	1		PSW-F3	CVVUCR	33	211121 J28	020	
013	SPIRE PSW Ch37-40 . 38gnd	SPC.-	-	S136	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
003	SPIRE PSW Ch37-40 . 39+	SPC.-	-	S136	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	031	
016	SPIRE PSW Ch37-40 . 39-	SPC.-	-	S136	12AXD-38	1		PSW-G3	CVVUCR	33	211121 J28	043	
013	SPIRE PSW Ch37-40 . 39gnd	SPC.-	-	S136	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
004	SPIRE PSW Ch37-40 . 40+	SPC.-	-	S136	12AXD-38	1		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	042	
017	SPIRE PSW Ch37-40 . 40-	SPC.-	-	S136	12AXD-38	1		PSW-H4	CVVUCR	33	211121 J28	054	
013	SPIRE PSW Ch37-40 . 40gnd	SPC.-	-	S136	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
013	SPIRE PSW Ch37-40 . SHD01	SPC.-	-	S136	12AXD-38	1		Cable S136 inner Shd dasy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
-	S316 12AXD Outer Shield							Cable S136 outer Shd con to CH (Faraday)					
005	SPIRE PSW Ch41-44 . 41+	SPC.-	-	S137	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	010	
018	SPIRE PSW Ch41-44 . 41-	SPC.-	-	S137	12AXD-38	2		PSW-J4	CVVUCR	33	211121 J28	011	
013	SPIRE PSW Ch41-44 . 41gnd	SPC.-	-	S137	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
006	SPIRE PSW Ch41-44 . 42+	SPC.-	-	S137	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	019	
019	SPIRE PSW Ch41-44 . 42-	SPC.-	-	S137	12AXD-38	2		PSW-E3	CVVUCR	33	211121 J28	029	
013	SPIRE PSW Ch41-44 . 42gnd	SPC.-	-	S137	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
020	SPIRE PSW Ch41-44 . 43+	SPC.-	-	S137	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	041	
007	SPIRE PSW Ch41-44 . 43-	SPC.-	-	S137	12AXD-38	2		PSW-F4	CVVUCR	33	211121 J28	030	
013	SPIRE PSW Ch41-44 . 43gnd	SPC.-	-	S137	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	



# Pin Allocation List (Harness)

**Connector:** 121210 P04  
**Item:** HSJFP

**Function:** SPIRE Bolom. Sign. from HSJFP2 (C9)  
**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630  
**Backshell:** 507 T 196 M 25

**EMC-Category:** 2C/Sig H in Cryostat

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW Ch41-44 . 44+	SPC.-	-	S137	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	053	
008	SPIRE PSW Ch41-44 . 44-	SPC.-	-	S137	12AXD-38	2		PSW-G4	CVVUCR	33	211121 J28	052	
013	SPIRE PSW Ch41-44 . 44gnd	SPC.-	-	S137	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
013	SPIRE PSW Ch41-44 . SHD02	SPC.-	-	S137	12AXD-38	2		Cable S137 inner Shd dasy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
-	S317 12AXD Outer Shield							Cable S137 outer Shd con to CH (Faraday)					
022	SPIRE PSW Ch45-48 . 45+	SPC.-	-	S138	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	009	
009	SPIRE PSW Ch45-48 . 45-	SPC.-	-	S138	12AXD-38	3		PSW-H5	CVVUCR	33	211121 J28	017	
013	SPIRE PSW Ch45-48 . 45gnd	SPC.-	-	S138	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
023	SPIRE PSW Ch45-48 . 46+	SPC.-	-	S138	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	018	
010	SPIRE PSW Ch45-48 . 46-	SPC.-	-	S138	12AXD-38	3		PSW-E4	CVVUCR	33	211121 J28	028	
013	SPIRE PSW Ch45-48 . 46gnd	SPC.-	-	S138	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
024	SPIRE PSW Ch45-48 . 47+	SPC.-	-	S138	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	016	
011	SPIRE PSW Ch45-48 . 47-	SPC.-	-	S138	12AXD-38	3		PSW-J5	CVVUCR	33	211121 J28	027	
013	SPIRE PSW Ch45-48 . 47gnd	SPC.-	-	S138	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
025	SPIRE PSW Ch45-48 . 48+	SPC.-	-	S138	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	040	
012	SPIRE PSW Ch45-48 . 48-	SPC.-	-	S138	12AXD-38	3		PSW-F5	CVVUCR	33	211121 J28	039	
013	SPIRE PSW Ch45-48 . 48gnd	SPC.-	-	S138	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
013	SPIRE PSW Ch45-48 . SHD03	SPC.-	-	S138	12AXD-38	3		Cable S138 inner Shd dasy ch to Pin 13 (A4)	CVVUCR	33	211121 J28	004	
-	S318 12 AXD Outer Shield							Cable S138 outer Shd con to CH (Faraday)					
013	SPIRE PLW B09 GND WIRE A4	SPX.-	-	S494	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVW FTBs	CVVUCR	33	211121 J28	004	

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P04

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP2 (C9)

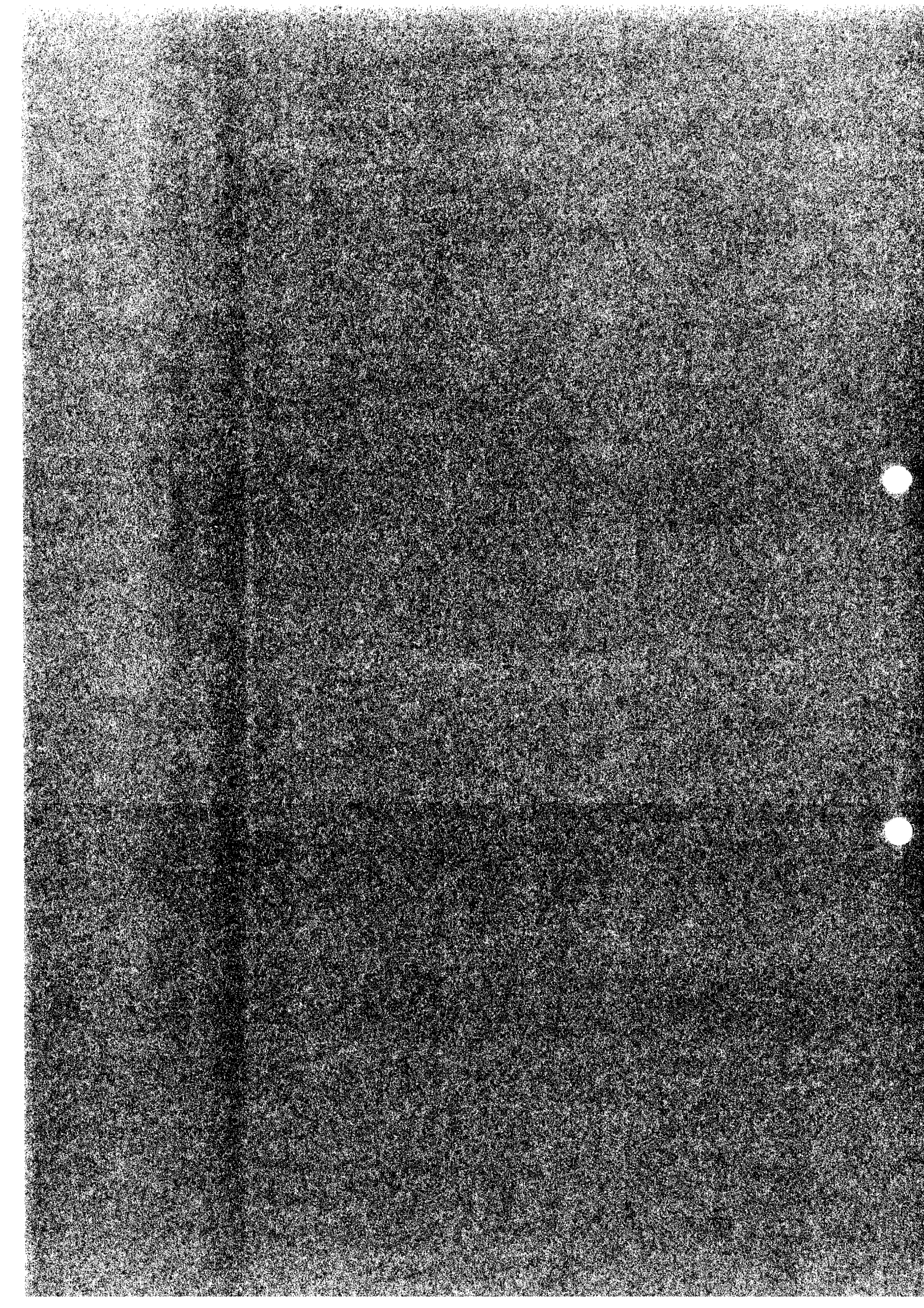
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
-	CH Outer Shields=Faraday Shds							Faraday Shds con to Backshell ECR0039tbc					
-	Isolation							Harness Branch to be isolated from S/C Structure					
-													





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Project: **HERSCHEL**

For wiring schematic  
see S11-CS-04 HSJFP P23

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P03

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP2 (C9)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PSW Ch25-28 . 25+	SPC-	-	S131	12AXD-38	1		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J28	090	
014	SPIRE PSW Ch25-28 . 25-	SPC-	-	S131	12AXD-38	1		PSW-E1	CVUUCR	33	211121 J28	079	
013	SPIRE PSW Ch25-28 . 25gnd	SPC-	-	S131	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J28	047	
002	SPIRE PSW Ch25-28 . 26+	SPC-	-	S131	12AXD-38	1		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J28	102	
015	SPIRE PSW Ch25-28 . 26-	SPC-	-	S131	12AXD-38	1		PSW-F1	CVUUCR	33	211121 J28	101	
013	SPIRE PSW Ch25-28 . 26gnd	SPC-	-	S131	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J28	047	
003	SPIRE PSW Ch25-28 . 27+	SPC-	-	S131	12AXD-38	1		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J28	092	
016	SPIRE PSW Ch25-28 . 27-	SPC-	-	S131	12AXD-38	1		PSW-T2	CVUUCR	33	211121 J28	091	
013	SPIRE PSW Ch25-28 . 27gnd	SPC-	-	S131	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J28	047	
004	SPIRE PSW Ch25-28 . 28+	SPC-	-	S131	12AXD-38	1		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J28	103	
017	SPIRE PSW Ch25-28 . 28-	SPC-	-	S131	12AXD-38	1		PSW-H1	CVUUCR	33	211121 J28	113	
013	SPIRE PSW Ch25-28 . 28gnd	SPC-	-	S131	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J28	047	
013	SPIRE PSW Ch25-28 . SHD01	SPC-	-	S131	12AXD-38	1		Cable S131 inner Shd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J28	047	
-	S131 12 AXD Outer Shield							Cable S131 outer Shd con to CH (Faraday)					
005	SPIRE PSW Ch29-32 . 29+	SPC-	-	S132	12AXD-38	2		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J28	058	
018	SPIRE PSW Ch29-32 . 29-	SPC-	-	S132	12AXD-38	2		PSW-G1	CVUUCR	33	211121 J28	046	
013	SPIRE PSW Ch29-32 . 29gnd	SPC-	-	S132	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J28	047	
006	SPIRE PSW Ch29-32 . 30+	SPC-	-	S132	12AXD-38	2		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J28	068	
019	SPIRE PSW Ch29-32 . 30-	SPC-	-	S132	12AXD-38	2		PSW-J1	CVUUCR	33	211121 J28	057	
013	SPIRE PSW Ch29-32 . 30gnd	SPC-	-	S132	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J28	047	
020	SPIRE PSW Ch29-32 . 31+	SPC-	-	S132	12AXD-38	2		200 Ohm/1.0E-09 A	CVUUCR	33	211121 J28	069	
007	SPIRE PSW Ch29-32 . 31-	SPC-	-	S132	12AXD-38	2		PSW-H2	CVUUCR	33	211121 J28	080	
013	SPIRE PSW Ch29-32 . 31gnd	SPC-	-	S132	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVUUCR	33	211121 J28	047	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 3)

**Connector:** 121210 P03

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP2 (C9)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-630

**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW Ch29-32 . 32+	SPC.-	-	S132	12AXD-38	2		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J28	070	
008	SPIRE PSW Ch29-32 . 32-	SPC.-	-	S132	12AXD-38	2		PSW-F2	CVWUCR	33	211121 J28	081	
013	SPIRE PSW Ch29-32 . 32gnd	SPC.-	-	S132	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A3)	CVWUCR	33	211121 J28	047	
013	SPIRE PSW Ch29-32 . SHD02	SPC.-	-	S132	12AXD-38	2		Cable S132 inner Shd daisy ch to Pin 13 (A3)	CVWUCR	33	211121 J28	047	
-	S132 12 AXD Outer Shield							Cable S132 outer Shd con to CH (Faraday)					
022	SPIRE PSW Ch33-36 . 33+	SPC.-	-	S133	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J28	023	
009	SPIRE PSW Ch33-36 . 33-	SPC.-	-	S133	12AXD-38	3		PSW-J2	CVWUCR	33	211121 J28	034	
013	SPIRE PSW Ch33-36 . 33gnd	SPC.-	-	S133	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVWUCR	33	211121 J28	047	
023	SPIRE PSW Ch33-36 . 34+	SPC.-	-	S133	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J28	033	
010	SPIRE PSW Ch33-36 . 34-	SPC.-	-	S133	12AXD-38	3		PSW-G2	CVWUCR	33	211121 J28	045	
013	SPIRE PSW Ch33-36 . 34gnd	SPC.-	-	S133	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVWUCR	33	211121 J28	047	
024	SPIRE PSW Ch33-36 . 35+	SPC.-	-	S133	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J28	044	
011	SPIRE PSW Ch33-36 . 35-	SPC.-	-	S133	12AXD-38	3		PSW-H3	CVWUCR	33	211121 J28	056	
013	SPIRE PSW Ch33-36 . 35gnd	SPC.-	-	S133	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVWUCR	33	211121 J28	047	
025	SPIRE PSW Ch33-36 . 36+	SPC.-	-	S133	12AXD-38	3		200 Ohm/1.0E-09 A	CVWUCR	33	211121 J28	022	
012	SPIRE PSW Ch33-36 . 36-	SPC.-	-	S133	12AXD-38	3		PSW-J3	CVWUCR	33	211121 J28	032	
013	SPIRE PSW Ch33-36 . 36gnd	SPC.-	-	S133	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A3)	CVWUCR	33	211121 J28	047	
013	SPIRE PSW Ch33-36 . SHD03	SPC.-	-	S133	12AXD-38	3		Cable S133 inner Shd daisy ch to Pin 13 (A3)	CVWUCR	33	211121 J28	047	
-	S313 12 AXD Outer Shield							Cable S133 outer Shd con to CH (Faraday)					
013	SPIRE PLW B09 GND WIRE A3	SPX.-	-	S493	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVW FTths	CVWUCR	33	211121 J28	047	

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P03

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP2 (C9)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
-	CH Outer Shields=Faraday Shds							Faraday Shds con to Backshell ECR0039tbc					
-	Isolation							Harness Branch to be isolated from S/C Structure					
-													







# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

For wiring schematic  
see SIH-CS-04 HSJFP P22

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P02  
Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP1 (C9)  
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-630  
Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE PSW Ch13-16 . 13+	SPC-	-	S127	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J28	086	
014	SPIRE PSW Ch13-16 . 13-	SPC-	-	S127	12AXD-38	1		PSW-B14	CWUCR	33	211121 J28	087	
013	SPIRE PSW Ch13-16 . 13gnd	SPC-	-	S127	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J28	128	
002	SPIRE PSW Ch13-16 . 14+	SPC-	-	S127	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J28	097	
015	SPIRE PSW Ch13-16 . 14-	SPC-	-	S127	12AXD-38	1		PSW-C13	CWUCR	33	211121 J28	098	
013	SPIRE PSW Ch13-16 . 14gnd	SPC-	-	S127	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J28	128	
003	SPIRE PSW Ch13-16 . 15+	SPC-	-	S127	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J28	108	
016	SPIRE PSW Ch13-16 . 15-	SPC-	-	S127	12AXD-38	1		PSW-B13	CWUCR	33	211121 J28	109	
013	SPIRE PSW Ch13-16 . 15gnd	SPC-	-	S127	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J28	128	
004	SPIRE PSW Ch13-16 . 16+	SPC-	-	S127	12AXD-38	1		200 Ohm/1.0E-09 A	CWUCR	33	211121 J28	116	
017	SPIRE PSW Ch13-16 . 16-	SPC-	-	S127	12AXD-38	1		PSW-D13	CWUCR	33	211121 J28	117	
013	SPIRE PSW Ch13-16 . 16gnd	SPC-	-	S127	12AXD-38	1		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J28	128	
013	SPIRE PSW Ch13-16 . SHD01	SPC-	-	S127	12AXD-38	1		Cable S127 inner Shd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J28	128	
-	S127 12 AXD Outer Shield							Cable S127 outer Shd con to CH (Faraday)					
005	SPIRE PSW Ch17-20 . 17+	SPC-	-	S128	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J28	055	
018	SPIRE PSW Ch17-20 . 17-	SPC-	-	S128	12AXD-38	2		PSW-A12	CWUCR	33	211121 J28	066	
013	SPIRE PSW Ch17-20 . 17gnd	SPC-	-	S128	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J28	128	
006	SPIRE PSW Ch17-20 . 18+	SPC-	-	S128	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J28	067	
019	SPIRE PSW Ch17-20 . 18-	SPC-	-	S128	12AXD-38	2		PSW-C12	CWUCR	33	211121 J28	078	
013	SPIRE PSW Ch17-20 . 18gnd	SPC-	-	S128	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J28	128	
020	SPIRE PSW Ch17-20 . 19+	SPC-	-	S128	12AXD-38	2		200 Ohm/1.0E-09 A	CWUCR	33	211121 J28	076	
007	SPIRE PSW Ch17-20 . 19-	SPC-	-	S128	12AXD-38	2		PSW-D12	CWUCR	33	211121 J28	077	
013	SPIRE PSW Ch17-20 . 19gnd	SPC-	-	S128	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CWUCR	33	211121 J28	128	

# Pin Allocation List (Harness)

**Connector:** 121210 P02

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP1 (C9)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-.630

**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
021	SPIRE PSW Ch17-20 . 20+	SPC.-	-	S128	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	088	
008	SPIRE PSW Ch17-20 . 20-	SPC.-	-	S128	12AXD-38	2		PSW-B12	CVVUCR	33	211121 J28	089	
013	SPIRE PSW Ch17-20 . 20gnd	SPC.-	-	S128	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J28	128	
013	SPIRE PSW Ch17-20 . SHD02	SPC.-	-	S128	12AXD-38	2		Cable S128 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J28	128	
-	S128 12 AXD Outer Shield							Cable S128 outer Shd con to CH (Faraday)					
022	SPIRE PSW Ch21-24 . 21+	SPC.-	-	S129	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	099	
009	SPIRE PSW Ch21-24 . 21-	SPC.-	-	S129	12AXD-38	3		PSW-E11	CVVUCR	33	211121 J28	100	
013	SPIRE PSW Ch21-24 . 21gnd	SPC.-	-	S129	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J28	128	
023	SPIRE PSW Ch21-24 . 22+	SPC.-	-	S129	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	110	
010	SPIRE PSW Ch21-24 . 22-	SPC.-	-	S129	12AXD-38	3		PSW-A11	CVVUCR	33	211121 J28	111	
013	SPIRE PSW Ch21-24 . 22gnd	SPC.-	-	S129	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J28	128	
024	SPIRE PSW Ch21-24 . 23+	SPC.-	-	S129	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	118	
011	SPIRE PSW Ch21-24 . 23-	SPC.-	-	S129	12AXD-38	3		PSW-C11	CVVUCR	33	211121 J28	119	
013	SPIRE PSW Ch21-24 . 23gnd	SPC.-	-	S129	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J28	128	
025	SPIRE PSW Ch21-24 . 24+	SPC.-	-	S129	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	112	
012	SPIRE PSW Ch21-24 . 24-	SPC.-	-	S129	12AXD-38	3		PSW-B11	CVVUCR	33	211121 J28	120	
013	SPIRE PSW Ch21-24 . 24gnd	SPC.-	-	S129	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J28	128	
013	SPIRE PSW Ch21-24 . SHD03	SPC.-	-	S129	12AXD-38	3		Cable S129 inner Shd daisy ch to Pin 13 (A2)	CVVUCR	33	211121 J28	128	
-	S129 12 AXD Outer Shield							Cable S129 outer Shd con to CH (Faraday)					
013	SPIRE PLW B09 GND WIRE A2	SPX.-	-	S492	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVV FTHs	CVVUCR	33	211121 J28	128	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P02

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP1 (C9)

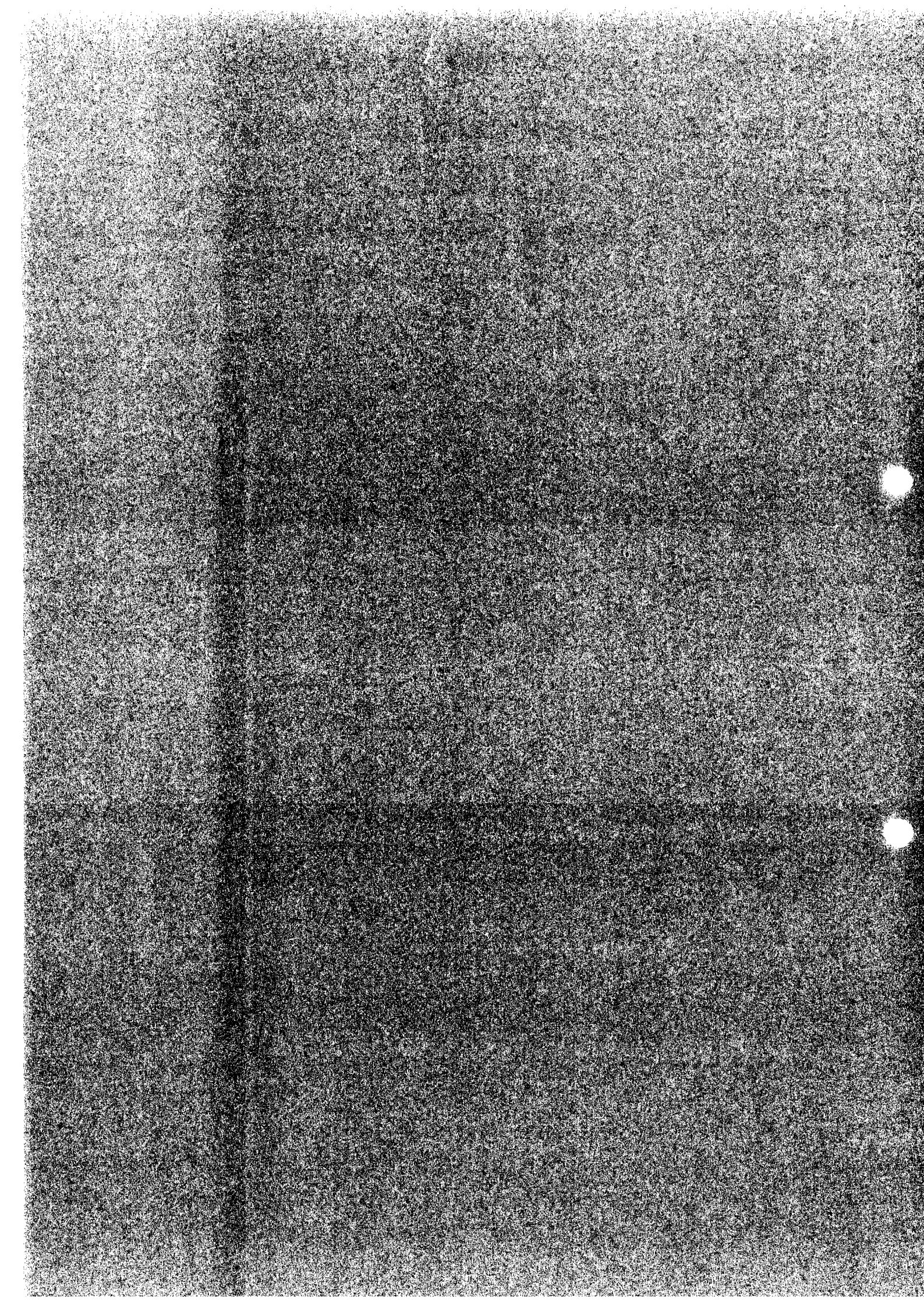
Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3--630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
-	CH Outer Shields=Faraday Shds							Faraday Shds con to Backshell ECR0039tbc					
-	Isolation							Harness Branch to be isolated from S/C Structure					
-													





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Project: **HERSCHEL**

For wiring Schematics  
see SIH-CS-04 HSJFP T21

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 3)

Connector: 121210 P01

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP1 (C9)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
001	SPIRE PSW Ch01-04 . 1+	SPC.- -	S122	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	026	
014	SPIRE PSW Ch01-04 . 1-	SPC.- -	S122	12AXD-38	1				PSW-R1	CVVUCR	33	211121 J28	037	
013	SPIRE PSW Ch01-04 . 1gnd	SPC.- -	S122	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
002	SPIRE PSW Ch01-04 . 2+	SPC.- -	S122	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	038	
015	SPIRE PSW Ch01-04 . 2-	SPC.- -	S122	12AXD-38	1				PSW-D16	CVVUCR	33	211121 J28	049	
013	SPIRE PSW Ch01-04 . 2gnd	SPC.- -	S122	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
003	SPIRE PSW Ch01-04 . 3+	SPC.- -	S122	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	048	
016	SPIRE PSW Ch01-04 . 3-	SPC.- -	S122	12AXD-38	1				PSW-T1	CVVUCR	33	211121 J28	060	
013	SPIRE PSW Ch01-04 . 3gnd	SPC.- -	S122	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
004	SPIRE PSW Ch01-04 . 4+	SPC.- -	S122	12AXD-38	1				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	059	
017	SPIRE PSW Ch01-04 . 4-	SPC.- -	S122	12AXD-38	1				PSW-B16	CVVUCR	33	211121 J28	071	
013	SPIRE PSW Ch01-04 . 4gnd	SPC.- -	S122	12AXD-38	1				12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
013	SPIRE PSW Ch01-04 . SHD01	SPC.- -	S122	12AXD-38	1				Cable S122 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
-	S122 12 AXD Outer Shield								Cable S122 outer Shd con to CH (Faraday)					
005	SPIRE PSW Ch05-08 . 5+	SPC.- -	S123	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	050	
018	SPIRE PSW Ch05-08 . 5-	SPC.- -	S123	12AXD-38	2				PSW-C15	CVVUCR	33	211121 J28	061	
013	SPIRE PSW Ch05-08 . 5gnd	SPC.- -	S123	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
006	SPIRE PSW Ch05-08 . 6+	SPC.- -	S123	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	062	
019	SPIRE PSW Ch05-08 . 6-	SPC.- -	S123	12AXD-38	2				PSW-A15	CVVUCR	33	211121 J28	051	
013	SPIRE PSW Ch05-08 . 6gnd	SPC.- -	S123	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
020	SPIRE PSW Ch05-08 . 7+	SPC.- -	S123	12AXD-38	2				200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	063	
007	SPIRE PSW Ch05-08 . 7-	SPC.- -	S123	12AXD-38	2				PSW-D15	CVVUCR	33	211121 J28	075	
013	SPIRE PSW Ch05-08 . 7gnd	SPC.- -	S123	12AXD-38	2				12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	



**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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**Connector:** 121210 P01

**Item:** HSJFP

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE Bolom. Sign. from HSJFP1 (C9)

**Location:** 75 / on SPIRE JFET big

**Conn.-Type:** MWDM2L-25S-6C3-630

**Backshell:** 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
021	SPIRE PSW Ch05-08 . 8+	SPC.-	-	S123	12AXD-38	2		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	074	
008	SPIRE PSW Ch05-08 . 8-	SPC.-	-	S123	12AXD-38	2		PSW-B15	CVVUCR	33	211121 J28	073	
013	SPIRE PSW Ch05-08 . 8gnd	SPC.-	-	S123	12AXD-38	2		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
013	SPIRE PSW Ch05-08 . SHD02	SPC.-	-	S123	12AXD-38	2		Cable S123 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
-	S123 12 AXD Outer Shield							Cable S123 outer Shd con to CH (Faraday)					
022	SPIRE PSW Ch09-12 . 9+	SPC.-	-	S124	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	083	
009	SPIRE PSW Ch09-12 . 9-	SPC.-	-	S124	12AXD-38	3		PSW-C14	CVVUCR	33	211121 J28	072	
013	SPIRE PSW Ch09-12 . 9gnd	SPC.-	-	S124	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
023	SPIRE PSW Ch09-12 . 10+	SPC.-	-	S124	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	095	
010	SPIRE PSW Ch09-12 . 10-	SPC.-	-	S124	12AXD-38	3		PSW-D14	CVVUCR	33	211121 J28	084	
013	SPIRE PSW Ch09-12 . 10gnd	SPC.-	-	S124	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
024	SPIRE PSW Ch09-12 . 11+	SPC.-	-	S124	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	096	
011	SPIRE PSW Ch09-12 . 11-	SPC.-	-	S124	12AXD-38	3		PSW-A14	CVVUCR	33	211121 J28	085	
013	SPIRE PSW Ch09-12 . 11gnd	SPC.-	-	S124	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
025	SPIRE PSW Ch09-12 . 12+	SPC.-	-	S124	12AXD-38	3		200 Ohm/1.0E-09 A	CVVUCR	33	211121 J28	106	
012	SPIRE PSW Ch09-12 . 12-	SPC.-	-	S124	12AXD-38	3		PSW-A13	CVVUCR	33	211121 J28	107	
013	SPIRE PSW Ch09-12 . 12gnd	SPC.-	-	S124	12AXD-38	3		12AX gnd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
013	SPIRE PSW Ch09-12 . SHD03	SPC.-	-	S124	12AXD-38	3		Cable S124 inner Shd daisy ch to Pin 13 (A1)	CVVUCR	33	211121 J28	036	
-	S124 12 AXD Outer Shield							Cable S124 outer Shd con to CH (Faraday)					
013	SPIRE PLW B09 GND WIRE A1	SPX.-	-	S491	010B0-30			Not a Wire in Cold !! Routed via Cable Shds to CVW FTHs	CVVUCR	33	211121 J28	036	



Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 3)

Connector: 121210 P01

Item: HSJFP

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE Bolom. Sign. from HSJFP1 (C9)

Location: 75 / on SPIRE JFET big

Conn.-Type: MWDM2L-25S-6C3-.630

Backshell: 507 T 196 M 25

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
-	CH Outer Shields=Faraday Shds						Faraday Shds con to Backshell ECR0039tbc					
-	Isolation						Harness Branch to be isolated fro S/C Structure					
-												





# Pin Allocation List (Harness)

**Connector:** 121100 P23  
**Item:** HSFPU

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Termometry Prime (C10)  
**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-630  
**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal		Wiring	Shd	Cable						
020	SPIRE FilterTemp(N) . I+		STA-	-	S253	041SS-38	1		1000 Ohm/1.0E-06 A	CWUCR	33	211121 J34	089	
002	SPIRE FilterTemp(N) . V+		STA-	-	S253	041SS-38	1			CWUCR	33	211121 J34	100	
003	SPIRE FilterTemp(N) . V-		STA-	-	S253	041SS-38	1			CWUCR	33	211121 J34	099	
021	SPIRE FilterTemp(N) . I-		STA-	-	S253	041SS-38	1			CWUCR	33	211121 J34	088	
001	SPIRE FilterTemp(N) . SHD06		STA-	-	S253	041SS-38	1		Cable S253 Shd	CWUCR	33	211121 J34	101	
004	SPIRE SpectDetBoxTemp(N) . I+		STA-	-	S254	041SS-38	2		1000 Ohm/1.0E-06 A	CWUCR	33	211121 J34	118	
023	SPIRE SpectDetBoxTemp(N) . V+		STA-	-	S254	041SS-38	2			CWUCR	33	211121 J34	125	
024	SPIRE SpectDetBoxTemp(N) . V-		STA-	-	S254	041SS-38	2			CWUCR	33	211121 J34	126	
005	SPIRE SpectDetBoxTemp(N) . I-		STA-	-	S254	041SS-38	2			CWUCR	33	211121 J34	119	
022	SPIRE SpectDetBoxTemp(N) . SHD01		STA-	-	S254	041SS-38	2		Cable S254 Shd	CWUCR	33	211121 J34	110	
025	SPIRE PhotomDetBoxTemp(N) . I+		STA-	-	S255	041SS-38	3		1000 Ohm/1.0E-06 A	CWUCR	33	211121 J34	123	
007	SPIRE PhotomDetBoxTemp(N) . V+		STA-	-	S255	041SS-38	3			CWUCR	33	211121 J34	116	
008	SPIRE PhotomDetBoxTemp(N) . V-		STA-	-	S255	041SS-38	3			CWUCR	33	211121 J34	117	
026	SPIRE PhotomDetBoxTemp(N) . I-		STA-	-	S255	041SS-38	3			CWUCR	33	211121 J34	124	
006	SPIRE PhotomDetBoxTemp(N) . SHD02		STA-	-	S255	041SS-38	3		Cable S255 Shd	CWUCR	33	211121 J34	108	
009	SPIRE OptSubbenchTemp(N) . I+		STA-	-	S256	041SS-38	4		1000 Ohm/1.0E-06 A	CWUCR	33	211121 J34	106	
028	SPIRE OptSubbenchTemp(N) . V+		STA-	-	S256	041SS-38	4			CWUCR	33	211121 J34	107	
029	SPIRE OptSubbenchTemp(N) . V-		STA-	-	S256	041SS-38	4			CWUCR	33	211121 J34	122	
010	SPIRE OptSubbenchTemp(N) . I-		STA-	-	S256	041SS-38	4			CWUCR	33	211121 J34	115	
027	SPIRE OptSubbenchTemp(N) . SHD03		STA-	-	S256	041SS-38	4		Cable S256 Shd	CWUCR	33	211121 J34	105	
030	SPIRE FPUInpBaffleTemp(N) . I+		STA-	-	S257	041SS-38	5		1000 Ohm/1.0E-06 A	CWUCR	33	211121 J34	097	
012	SPIRE FPUInpBaffleTemp(N) . V+		STA-	-	S257	041SS-38	5			CWUCR	33	211121 J34	086	
013	SPIRE FPUInpBaffleTemp(N) . V-		STA-	-	S257	041SS-38	5			CWUCR	33	211121 J34	087	
031	SPIRE FPUInpBaffleTemp(N) . I-		STA-	-	S257	041SS-38	5			CWUCR	33	211121 J34	098	
011	SPIRE FPUInpBaffleTemp(N) . SHD04		STA-	-	S257	041SS-38	5		Cable S257 Shd	CWUCR	33	211121 J34	109	
014	SPIRE BSM/SOB I/FTmp(N) . I+		STA-	-	S258	041SS-38	6		1000 Ohm/1.0E-06 A	CWUCR	33	211121 J34	073	
033	SPIRE BSM/SOB I/FTmp(N) . V+		STA-	-	S258	041SS-38	6			CWUCR	33	211121 J34	074	
034	SPIRE BSM/SOB I/FTmp(N) . V-		STA-	-	S258	041SS-38	6			CWUCR	33	211121 J34	085	
015	SPIRE BSM/SOB I/FTmp(N) . I-		STA-	-	S258	041SS-38	6			CWUCR	33	211121 J34	084	
032	SPIRE BSM/SOB I/FTmp(N) . SHD05		STA-	-	S258	041SS-38	6		Cable S258 Shd	CWUCR	33	211121 J34	096	
017	SPIRE PTC Htr(N) . I+A		STB-	-	S259	041BS-30	7		100 Ohm/2.0E-03 A	CWUCR	33	211121 J34	079	
018	SPIRE PTC Htr(N) . I+B		STB-	-	S259	041BS-30	7			CWUCR	33	211121 J34	078	

**Astrium GmbH**  
 Project: **HERSCHEL**

# Pin Allocation List

(Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 121100 P23

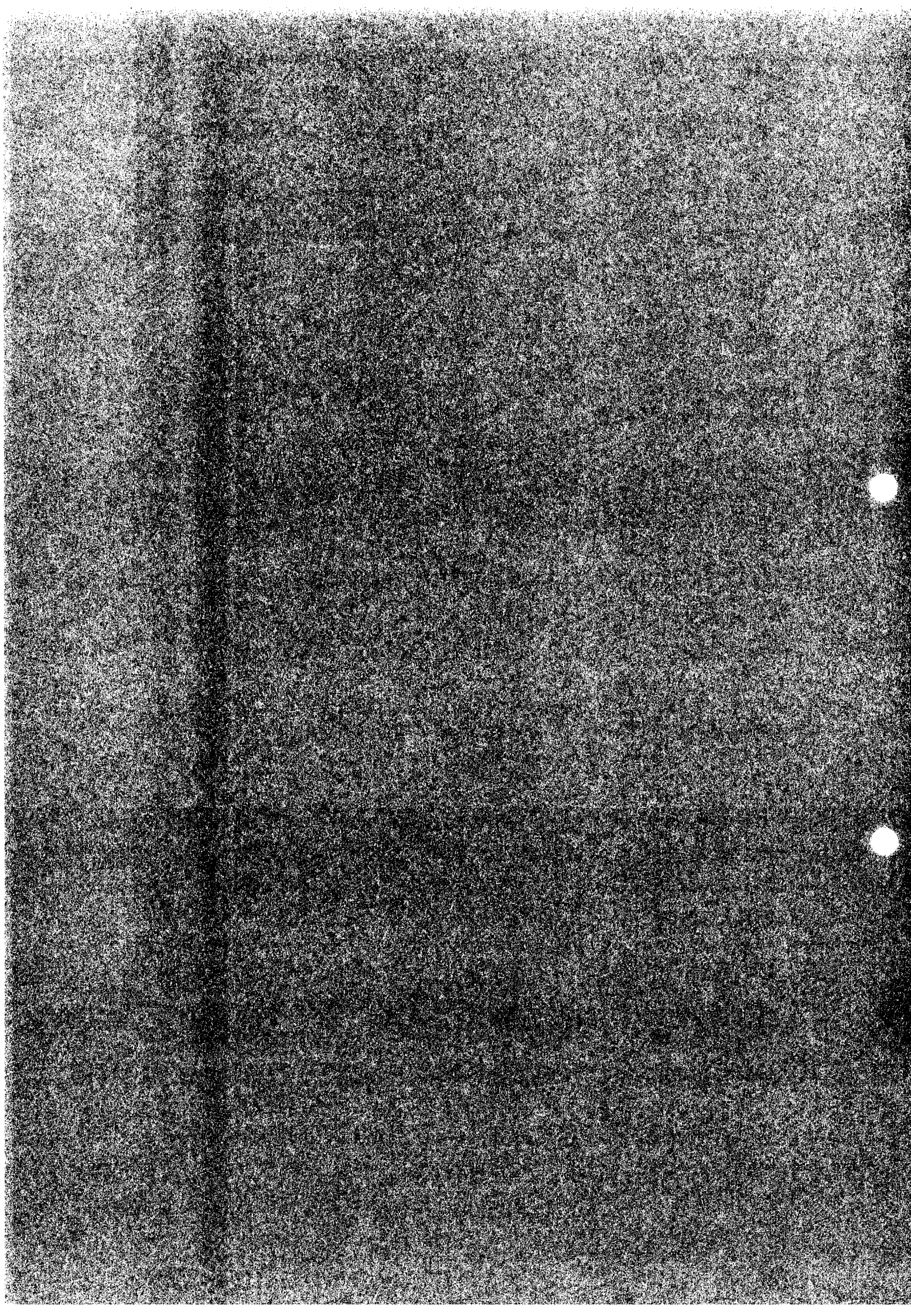
**Item:** HSFPU

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Thermometry Prime (C10)  
**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-630  
**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
036	SPIRE PTC Htr(N) . I-A	STB.-	-	S259	041BS-30	7			CVVUCR	33	211121 J34	068	
037	SPIRE PTC Htr(N) . I-B	STB.-	-	S259	041BS-30	7			CVVUCR	33	211121 J34	067	
035	SPIRE PTC Htr(N) . SHD07	STB.-	-	S259	041BS-30	7		Cable S259 Shd	CVVUCR	33	211121 J34	090	
016	NC												
019	NC												
CH	SPIRE FPU TP Faraday . SFF	SFF.-	-	S250	010B0-30			Faraday Shd con to Backshell ECR0039hbc	CVVUCR	33	211121 J34	094	3. 3. 3.
-								No Bundle Overall Shd in Cold					



# Pin Allocation List (Harness)

Connector: 121100 P21

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter Spect. Stim. (C10)

Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal Pos.			Shd	Cable Twist						
005	SPIRE Spectr4%Temp (N) . I+		SCA-	-	S242	041SS-38	24		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J34	111	
006	SPIRE Spectr4%Temp (N) . V+		SCA-	-	S242	041SS-38	24			CVVUCR	33	211121 J34	120	
024	SPIRE Spectr4%Temp (N) . V-		SCA-	-	S242	041SS-38	24			CVVUCR	33	211121 J34	128	
025	SPIRE Spectr4%Temp (N) . I-		SCA-	-	S242	041SS-38	24			CVVUCR	33	211121 J34	112	
023	SPIRE Spectr4%Temp (N) . SHD01		SCA-	-	S242	041SS-38	24		Cable S242 Shd	CVVUCR	33	211121 J34	121	
007	SPIRE Spectr2%Temp (N) . I+		SCA-	-	S243	041SS-38	25		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J34	091	
008	SPIRE Spectr2%Temp (N) . V+		SCA-	-	S243	041SS-38	25			CVVUCR	33	211121 J34	092	
026	SPIRE Spectr2%Temp (N) . V-		SCA-	-	S243	041SS-38	25			CVVUCR	33	211121 J34	081	
027	SPIRE Spectr2%Temp (N) . I-		SCA-	-	S243	041SS-38	25			CVVUCR	33	211121 J34	080	
009	SPIRE Spectr2%Temp (N) . SHD02		SCA-	-	S243	041SS-38	25		Cable S243 Shd	CVVUCR	33	211121 J34	093	
010	SPIRE SpStimFlanTemp(N) . I+		SCA-	-	S244	041SS-38	26		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J34	114	
011	SPIRE SpStimFlanTemp(N) . V+		SCA-	-	S244	041SS-38	26			CVVUCR	33	211121 J34	113	
028	SPIRE SpStimFlanTemp(N) . V-		SCA-	-	S244	041SS-38	26			CVVUCR	33	211121 J34	103	
029	SPIRE SpStimFlanTemp(N) . I-		SCA-	-	S244	041SS-38	26			CVVUCR	33	211121 J34	104	
030	SPIRE SpStimFlanTemp(N) . SHD03		SCA-	-	S244	041SS-38	26		Cable S244 Shd	CVVUCR	33	211121 J34	102	
014	SPIRE Spectr4%Heater (N) . I+A		SCB-	-	S245	040B0-30				CVVUCR	33	211121 J34	035	
015	SPIRE Spectr4%Heater (N) . I+B		SCB-	-	S245	040B0-30				CVVUCR	33	211121 J34	024	
033	SPIRE Spectr4%Heater (N) . I-A		SCB-	-	S245	040B0-30				CVVUCR	33	211121 J34	034	
034	SPIRE Spectr4%Heater (N) . I-B		SCB-	-	S245	040B0-30				CVVUCR	33	211121 J34	023	
016	SPIRE Spectr2%Heater (N) . I+A		SCB-	-	S246	040B0-30				CVVUCR	33	211121 J34	046	
017	SPIRE Spectr2%Heater (N) . I+B		SCB-	-	S246	040B0-30				CVVUCR	33	211121 J34	058	
035	SPIRE Spectr2%Heater (N) . I-A		SCB-	-	S246	040B0-30				CVVUCR	33	211121 J34	045	
036	SPIRE Spectr2%Heater (N) . I-B		SCB-	-	S246	040B0-30				CVVUCR	33	211121 J34	057	
004	NC													
012	NC													
013	NC													
018	NC													
019	NC													
020	NC													
021	NC													
022	NC													
031	NC													
032	NC													
037	NC													

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 2)

Connector: 121100 P21

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter Spect. Stim. (C10)

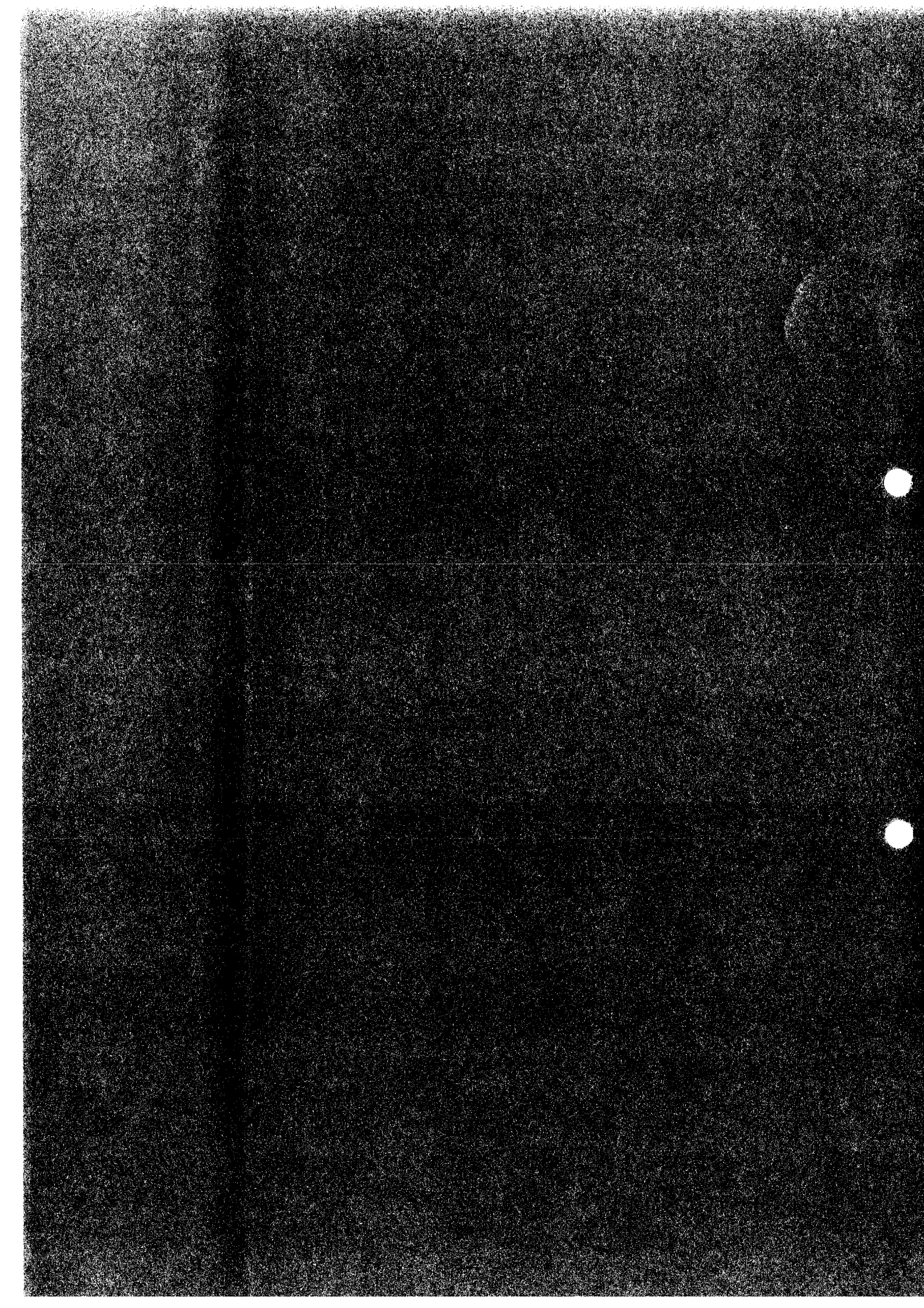
Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
CH	SPIRE FPU FSS Faraday . SFF	SFF.- -	S251	010B0-30			Faraday Shd con to Backshell ECR0039tbc No Bundle Overall Shd in Cold	CVVUCR	33	211121 J34	047	3. 3. 3.





# Pin Allocation List

(Harness)

**Connector:** 121100 P19  
**Item:** HSFPU  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Filter Cooler (C10)  
**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-.630  
**Backshell:** 507 T 196 M 37

**Note:** Signals of different EMC classes are routed via this Connector

Pin	Signal Designation	Diagram	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal	Ch. ID	Wiring	Shd						
020	SPIRE SorptPumpTemp(N) . I+		S3E.-	-	S234	041SS-38	1	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J34	029	
001	SPIRE SorptPumpTemp(N) . V+		S3E.-	-	S234	041SS-38	1		CVVUCR	33	211121 J34	041	
002	SPIRE SorptPumpTemp(N) . V-		S3E.-	-	S234	041SS-38	1		CVVUCR	33	211121 J34	042	
021	SPIRE SorptPumpTemp(N) . I-		S3E.-	-	S234	041SS-38	1		CVVUCR	33	211121 J34	030	
003	SPIRE SorptPumpTemp(N) . SHD01		S3E.-	-	S234	041SS-38	1	Cable 234 Shd	CVVUCR	33	211121 J34	031	
022	SPIRE EvaporatorTemp(N) . I+		S3E.-	-	S235	041SS-38	2	1000 Ohm/250 nA	CVVUCR	33	211121 J34	077	
004	SPIRE EvaporatorTemp(N) . V+		S3E.-	-	S235	041SS-38	2		CVVUCR	33	211121 J34	066	
005	SPIRE EvaporatorTemp(N) . V-		S3E.-	-	S235	041SS-38	2		CVVUCR	33	211121 J34	065	
023	SPIRE EvaporatorTemp(N) . I-		S3E.-	-	S235	041SS-38	2		CVVUCR	33	211121 J34	076	
024	SPIRE EvaporatorTemp(N) . SHD02		S3E.-	-	S235	041SS-38	2	Cable 235 Shd	CVVUCR	33	211121 J34	054	
025	SPIRE SorptPumpSwTemp(N) . I+		S3E.-	-	S236	041SS-38	3	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J34	053	
006	SPIRE SorptPumpSwTemp(N) . V+		S3E.-	-	S236	041SS-38	3		CVVUCR	33	211121 J34	064	
007	SPIRE SorptPumpSwTemp(N) . V-		S3E.-	-	S236	041SS-38	3		CVVUCR	33	211121 J34	063	
026	SPIRE SorptPumpSwTemp(N) . I-		S3E.-	-	S236	041SS-38	3		CVVUCR	33	211121 J34	052	
008	SPIRE SorptPumpSwTemp(N) . SHD03		S3E.-	-	S236	041SS-38	3	Cable 236 Shd	CVVUCR	33	211121 J34	075	
027	SPIRE EvaporSwTemp(N) . I+		S3E.-	-	S237	041SS-38	4	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J34	050	
009	SPIRE EvaporSwTemp(N) . V+		S3E.-	-	S237	041SS-38	4		CVVUCR	33	211121 J34	062	
010	SPIRE EvaporSwTemp(N) . V-		S3E.-	-	S237	041SS-38	4		CVVUCR	33	211121 J34	051	
028	SPIRE EvaporSwTemp(N) . I-		S3E.-	-	S237	041SS-38	4		CVVUCR	33	211121 J34	061	
029	SPIRE EvaporSwTemp(N) . SHD04		S3E.-	-	S237	041SS-38	4	Cable 237 Shd	CVVUCR	33	211121 J34	039	
030	SPIRE ThermShuntTemp(N) . I+A		S3E.-	-	S238	041SS-38	5	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J34	011	
011	SPIRE ThermShuntTemp(N) . V+B		S3E.-	-	S238	041SS-38	5		CVVUCR	33	211121 J34	019	
012	SPIRE ThermShuntTemp(N) . V-A		S3E.-	-	S238	041SS-38	5		CVVUCR	33	211121 J34	018	
031	SPIRE ThermShuntTemp(N) . I-B		S3E.-	-	S238	041SS-38	5		CVVUCR	33	211121 J34	010	
013	SPIRE ThermShuntTemp(N) . SHD05		S3E.-	-	S238	041SS-38	5	Cable 238 Shd	CVVUCR	33	211121 J34	020	
014	SPIRE SorptPumpHtr(N) . I+A		S3F.-	-	S239	040B0-30	6	10 Ohm/2.5E-02 A	CVVUCR	33	211121 J34	006	
032	SPIRE SorptPumpHtr(N) . I+B		S3F.-	-	S239	040B0-30	6		CVVUCR	33	211121 J34	013	
015	SPIRE SorptPumpHtr(N) . I-A		S3F.-	-	S239	040B0-30	6		CVVUCR	33	211121 J34	005	
033	SPIRE SorptPumpHtr(N) . I-B		S3F.-	-	S239	040B0-30	6		CVVUCR	33	211121 J34	012	
016	SPIRE SorptPumpSwHtr(N) . I+A		S3F.-	-	S240	040B0-30	7	10 Ohm/1.5 mA	CVVUCR	33	211121 J34	022	
034	SPIRE SorptPumpSwHtr(N) . I+B		S3F.-	-	S240	040B0-30	7		CVVUCR	33	211121 J34	033	

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 2)

**Connector:** 121100 P19

**Item:** HSFPU

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Filter Cooler (C10)

**Location:** 70 / Optical Bench

**Note:** Signals of different EMC classes are routed via this Connector

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Shd	Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal										
017	SPIRE SorptPumpSwHtr(N) . I-A		S3F.-	-	S240	040B0-30	7			CVVUCR	33	211121 J34	021	
035	SPIRE SorptPumpSwHtr(N) . I-B		S3F.-	-	S240	040B0-30	7			CVVUCR	33	211121 J34	032	
018	SPIRE EvaporSwHtr(N) . I+A		S3F.-	-	S241	040B0-30	8		50 Ohm/1.5E-03 A	CVVUCR	33	211121 J34	055	
036	SPIRE EvaporSwHtr(N) . I+B		S3F.-	-	S241	040B0-30	8			CVVUCR	33	211121 J34	056	
019	SPIRE EvaporSwHtr(N) . I-A		S3F.-	-	S241	040B0-30	8			CVVUCR	33	211121 J34	043	
037	SPIRE EvaporSwHtr(N) . I-B		S3F.-	-	S241	040B0-30	8			CVVUCR	33	211121 J34	044	
CH	SPIRE FPU FC Faraday . SFF		SFF.-	-	S249	010B0-30			Faraday Shd con to Backshell ECR0039tbc	CVVUCR	33	211121 J34	004	3. 3. 3.
									No Bundle Overall Shd in Cold					



# Pin Allocation List (Harness)

Connector: 121100 P25

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter BSM Phot. Stim. (C11)

Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
001	SPIRE ChopSensor1&2(N) . 1		SBA.- -	S041	021SS-38	41				1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	051	
020	SPIRE ChopSensor1&2(N) . 2		SBA.- -	S041	021SS-38	41				Cable S041, 043, 045, 048 con together	CVVUCR	33	211121 J30	040	
022	SPIRE ChopSensor1&2(N) . SHD01		SBA.- -	S041	021SS-38	41					CVVUCR	33	211121 J30	039	
002	SPIRE ChopSensor3-5(N) . 3		SBB.- -	S043	031BS-38	43				1000 Ohm/250 nA	CVVUCR	33	211121 J30	028	
021	SPIRE ChopSensor3-5(N) . 4		SBB.- -	S043	031BS-38	43					CVVUCR	33	211121 J30	017	
003	SPIRE ChopSensor3-5(N) . 5		SBB.- -	S043	031BS-38	43					CVVUCR	33	211121 J30	016	
022	SPIRE ChopSensor3-5(N) . SHD03		SBB.- -	S043	031BS-38	43				Cable S041, 043, 045, 048 con together	CVVUCR	33	211121 J30	027	
004	SPIRE JiggleSensor1&2(N) . 1		SBA.- -	S045	021SS-38	45				1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	049	
023	SPIRE JiggleSensor1&2(N) . 2		SBA.- -	S045	021SS-38	45				Cable S041, 043, 045, 048 con together	CVVUCR	33	211121 J30	050	
022	SPIRE JiggleSensor1&2(N) . SHD02		SBA.- -	S045	021SS-38	45					CVVUCR	33	211121 J30	038	
005	SPIRE JiggleSensor3-5(N) . 3		SBB.- -	S048	031BS-38	48				1000 Ohm/250 nA	CVVUCR	33	211121 J30	015	
024	SPIRE JiggleSensor3-5(N) . 4		SBB.- -	S048	031BS-38	48					CVVUCR	33	211121 J30	025	
006	SPIRE JiggleSensor3-5(N) . 5		SBB.- -	S048	031BS-38	48					CVVUCR	33	211121 J30	037	
022	SPIRE JiggleSensor3-5(N) . SHD04		SBB.- -	S048	031BS-38	48				Cable S041, 043, 045, 048 con together	CVVUCR	33	211121 J30	026	
007	SPIRE BSMTemp(N) . I+		SBC.- -	S103	041SS-38	10				1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	086	
026	SPIRE BSMTemp(N) . V+		SBC.- -	S103	041SS-38	10					CVVUCR	33	211121 J30	097	
008	SPIRE BSMTemp(N) . V-		SBC.- -	S103	041SS-38	10					CVVUCR	33	211121 J30	098	
027	SPIRE BSMTemp(N) . I-		SBC.- -	S103	041SS-38	10					CVVUCR	33	211121 J30	087	
025	SPIRE BSMTemp(N) . SHD05		SBC.- -	S103	041SS-38	10				Cable S103 Shd	CVVUCR	33	211121 J30	075	
028	SPIRE P-Cal Htr(N) . I+A		SBD.- -	S260	041BS-30	11				10 Ohm/7.0E-03 A	CVVUCR	33	211121 J30	048	
010	SPIRE P-Cal Htr(N) . I+B		SBD.- -	S260	041BS-30	11					CVVUCR	33	211121 J30	071	
029	SPIRE P-Cal Htr(N) . I-A		SBD.- -	S260	041BS-30	11					CVVUCR	33	211121 J30	060	
011	SPIRE P-Cal Htr(N) . I-B		SBD.- -	S260	041BS-30	11					CVVUCR	33	211121 J30	059	
009	SPIRE P-Cal Htr(N) . SHD06		SBD.- -	S260	041BS-30	11				Cable S260 Shd	CVVUCR	33	211121 J30	036	
030	SPIRE BSMChLchConf(N) . 1		SBE.- -	S261	021SS-38	12				1000 Ohm/1.0E-03 A	CVVUCR	33	211121 J30	108	
012	SPIRE BSMChLchConf(N) . 2		SBE.- -	S261	021SS-38	12					CVVUCR	33	211121 J30	116	

# Pin Allocation List (Harness)

Connector: 121100 P25

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter BSM Phot. Stim. (C11)

Location: 70 / Optical Bench

Conn.-Type: MWDMZL-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
031	SPIRE BSM Lch Lch Cont(N) . SHD07	SBE.-	-	S261	021SS-38	12		Cable 261Shd	CVVUCR	33	211121 J30	107	
013	SPIRE BSM Latch Drive(N) . SUP	SBF.-	-	S262	021BS-30	13		10 Ohm/3.5E-02 A	CVVUCR	33	211121 J30	105	
032	SPIRE BSM Latch Drive(N) . RTN	SBF.-	-	S262	021BS-30	13			CVVUCR	33	211121 J30	115	
033	SPIRE BSM Latch Drive(N) . SHD08	SBF.-	-	S262	021BS-30	13		Cable 262 Shd	CVVUCR	33	211121 J30	106	
015	SPIRE Chop Mot Drive(N) . 1	SBG.-	-	S263	041BS-30	14		10 Ohm/4.0E-02 A	CVVUCR	33	211121 J30	072	
034	SPIRE Chop Mot Drive(N) . 2	SBG.-	-	S263	041BS-30	14			CVVUCR	33	211121 J30	061	
016	SPIRE Chop Mot Drive(N) . 3	SBG.-	-	S263	041BS-30	14			CVVUCR	33	211121 J30	062	
035	SPIRE Chop Mot Drive(N) . 4	SBG.-	-	S263	041BS-30	14			CVVUCR	33	211121 J30	074	
017	SPIRE Chop Mot Drive(N) . SHD09	SBG.-	-	S263	041BS-30	14		Cable S263,264 Shd con together	CVVUCR	33	211121 J30	073	
036	SPIRE Jiggle Mot Drive(N) . 1	SBG.-	-	S264	041BS-30	26			CVVUCR	33	211121 J30	083	
018	SPIRE Jiggle Mot Drive(N) . 2	SBG.-	-	S264	041BS-30	26		10 Ohm/4.0E-02 A	CVVUCR	33	211121 J30	095	
037	SPIRE Jiggle Mot Drive(N) . 3	SBG.-	-	S264	041BS-30	26			CVVUCR	33	211121 J30	096	
019	SPIRE Jiggle Mot Drive(N) . 4	SBG.-	-	S264	041BS-30	26			CVVUCR	33	211121 J30	085	
017	SPIRE Jiggle Mot Drive(N) . SHD10	SBG.-	-	S264	041BS-30	26		Cable S263,264 Shd con together	CVVUCR	33	211121 J30	084	
CH	SPIRE FPU BSM Faraday . SFF	SFF.-	-	S252	010B0-30			Faraday Shd con to Backshell ECR0039tbc	CVVUCR	33	211121 J30	082	3. 3. 3.
-								No Bundle Overall Shd in Cold					



# Pin Allocation List (Harness)

**Connector:** 121100 P27

**Item:** HSFPU

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Filter SMEC Launch Pr (C11)

**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal			Pos.	Shd						
001	SPIRE SMECLL1ch#1Cont(N) . 1+		SME.-	-	S265	021BS-30	22	5 Ohm/1.0E-03 A	CVVUCR	33	211121 J30	117		
020	SPIRE SMECLL1ch#1Cont(N) . 1-		SME.-	-	S265	021BS-30	22	Cable S265 Shd, S266 con together, daisy ch to Pin 03	CVVUCR	33	211121 J30	118		
003	SPIRE SMECLL1ch#1Cont(N) . SHD06		SME.-	-	S265	021BS-30	22		CVVUCR	33	211121 J30	109		
002	SPIRE SMECLL1ch#2Cont(N) . 2+		SME.-	-	S266	021BS-30	23		5 Ohm/1.0E-03 A	CVVUCR	33	211121 J30	111	
021	SPIRE SMECLL1ch#2Cont(N) . 2-		SME.-	-	S266	021BS-30	23	Cable S265 Shd, S266 con together, daisy ch to Pin 03	CVVUCR	33	211121 J30	119		
003	SPIRE SMECLL1ch#2Cont(N) . SHD07		SME.-	-	S266	021BS-30	23		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J30	067	
022	SPIRE SMECLL1Pwr1(A(N) . S1		SMF.-	-	S267	021BS-30	24		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J30	066	
023	SPIRE SMECLL1Pwr1(A(N) . R1		SMF.-	-	S267	021BS-30	24	Cable S267 Shd	CVVUCR	33	211121 J30	078		
004	SPIRE SMECLL1Pwr1(A(N) . SHD08		SMF.-	-	S267	021BS-30	24		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J30	068	
005	SPIRE SMECLL1Pwr2(B(N) . S2		SMF.-	-	S268	021BS-30	25		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J30	069	
006	SPIRE SMECLL1Pwr2(B(N) . R2		SMF.-	-	S268	021BS-30	25	Cable S268 Shd	CVVUCR	33	211121 J30	080		
024	SPIRE SMECLL1Pwr2(B(N) . SHD09		SMF.-	-	S268	021BS-30	25		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J30	090	
005	SPIRE SMECLL2Pwr1(A(N) . S1		SMF.-	-	S269	021BS-30	26		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J30	091	
026	SPIRE SMECLL2Pwr1(A(N) . R1		SMF.-	-	S269	021BS-30	26	Cable S269 Shd	CVVUCR	33	211121 J30	079		
007	SPIRE SMECLL2Pwr1(A(N) . SHD10		SMF.-	-	S269	021BS-30	26		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J30	092	
008	SPIRE SMECLL2Pwr2(B(N) . S2		SMF.-	-	S270	021BS-30	27		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J30	093	
009	SPIRE SMECLL2Pwr2(B(N) . R2		SMF.-	-	S270	021BS-30	27	Cable S270 Shd	CVVUCR	33	211121 J30	081		
027	SPIRE SMECLL2Pwr2(B(N) . SHD11		SMF.-	-	S270	021BS-30	27		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	088	
008	SPIRE SMECLL2Pwr2(B(N) . S2		SMC.-	-	S271	041SS-38	20		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	088	
010	SPIRE SMECTemp(N) . 1+		SMC.-	-	S271	041SS-38	20	Cable S271 Shd	CVVUCR	33	211121 J30	099		
029	SPIRE SMECTemp(N) . V+		SMC.-	-	S271	041SS-38	20		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	065	
011	SPIRE SMECTemp(N) . 1-		SMC.-	-	S271	041SS-38	20		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	064	
030	SPIRE SMECTemp(N) . SHD04		SMC.-	-	S271	041SS-38	20	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	053		
031	SPIRE SMEC/SOB //FTmp(N) . 1+		SMC.-	-	S272	041SS-38	21	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	054		
013	SPIRE SMEC/SOB //FTmp(N) . V+		SMC.-	-	S272	041SS-38	21		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	065	
032	SPIRE SMEC/SOB //FTmp(N) . V-		SMC.-	-	S272	041SS-38	21		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	064	
014	SPIRE SMEC/SOB //FTmp(N) . 1-		SMC.-	-	S272	041SS-38	21		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J30	053	



**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List (Harness)

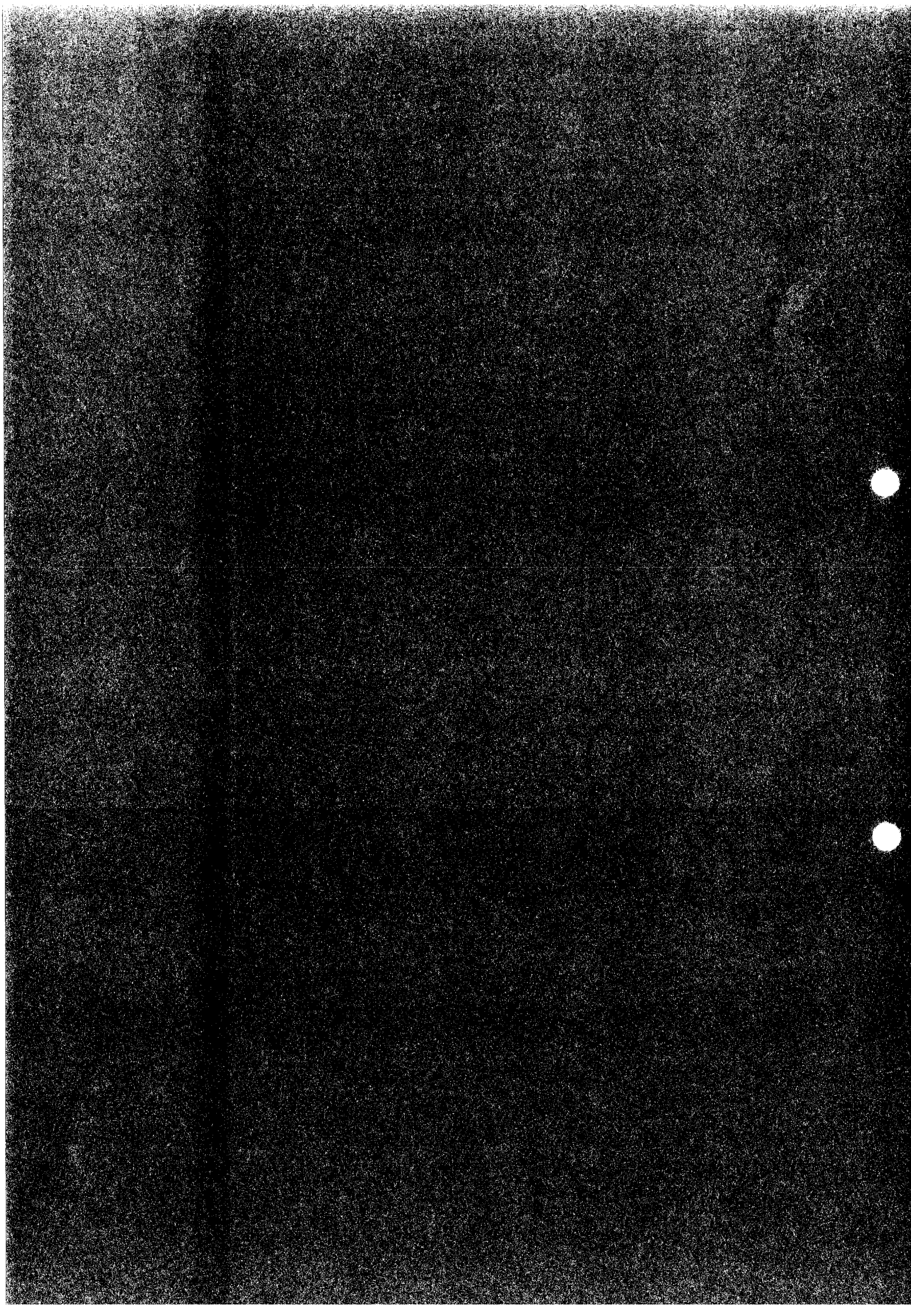
Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-2 (of 2)

**Connector:** 121100 P27  
**Item:** HSFPU  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Filter SMEC Launch Pr (C11)  
**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-.630  
**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal			Shd	Cable Twist						
012	SPIRE SMEC/SOB //FTmp(N) . SHD05		SMC.-	-	S272	041SS-38	21		Cable S272 Shd	CVVUCR	33	211121 J30	076	
033	SPIRE SMECLVDTPrICIPw(N) . P		SMA.-	-	S273	021BS-30	17		5 Ohm/5.0E-03 A	CVVUCR	33	211121 J30	101	
034	SPIRE SMECLVDTPrICIPw(N) . N		SMA.-	-	S273	021BS-30	17			CVVUCR	33	211121 J30	102	
015	SPIRE SMECLVDTPrICIPw(N) . SHD01		SMA.-	-	S273	021BS-30	17		Cable S273 Shd	CVVUCR	33	211121 J30	112	
035	SPIRE SMECLVDTSCI#15g(N) . P		SMB.-	-	S274	021BS-30	18		5 Ohm/5.0E-05 A	CVVUCR	33	211121 J30	127	
036	SPIRE SMECLVDTSCI#15g(N) . N		SMB.-	-	S274	021BS-30	18			CVVUCR	33	211121 J30	120	
017	SPIRE SMECLVDTSCI#15g(N) . SHD02		SMB.-	-	S274	021BS-30	18		Cable S274 Shd	CVVUCR	33	211121 J30	128	
018	SPIRE SMECLVDTSCI#25g(N) . P		SMB.-	-	S275	021BS-30	19		5 Ohm/5.0E-05 A	CVVUCR	33	211121 J30	114	
019	SPIRE SMECLVDTSCI#25g(N) . N		SMB.-	-	S275	021BS-30	19			CVVUCR	33	211121 J30	113	
037	SPIRE SMECLVDTSCI#25g(N) . SHD03		SMB.-	-	S275	021BS-30	19		Cable S275 Shd	CVVUCR	33	211121 J30	121	
CH	SPIRE FPU SMEC Faraday . SFF		SFF.-	-	S300	010B0-30			Faraday Shd con to Backshell ECR0039fbc	CVVUCR	33	211121 J30	104	3. 3. 3.
									No Bundle Overall Shd in Cold					



# Pin Allocation List (Harness)

Connector: 121100 P29

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter SMEC Contr. Pr (C11)

Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal			Pos.	Shd						
001	SPIRE SMEC Drv Coil (N) . I+		SMD.-	-	S276	021BS-30	24		5 Ohm/1.0E-01 A	CVVUCR	33	211121 J30	012	
002	SPIRE SMEC Drv Coil (N) . I-		SMD.-	-	S276	021BS-30	24		Cable S276 Shd	CVVUCR	33	211121 J30	005	
020	SPIRE SMEC Drv Coil (N) . SHD01		SMD.-	-	S276	021BS-30	24			CVVUCR	33	211121 J30	013	
021	SPIRE SMEC Drv Coil (Rob) (N) . I+		SMD.-	-	S277	021BS-30	25		5 Ohm/1.0E-01 A	CVVUCR	33	211121 J30	022	
022	SPIRE SMEC Drv Coil (Rob) (N) . I-		SMD.-	-	S277	021BS-30	25		Cable S277 Shd	CVVUCR	33	211121 J30	007	
003	SPIRE SMEC Drv Coil (Rob) (N) . SHD02		SMD.-	-	S277	021BS-30	25			CVVUCR	33	211121 J30	013	
004	SPIRE SMEC Drv Sense (N) . Sen+		SMG.-	-	S278	021BS-38	26		500 Ohm/1.0E-05 A	CVVUCR	33	211121 J30	014	
005	SPIRE SMEC Drv Sense (N) . Sen-		SMG.-	-	S278	021BS-38	26		Cable S278 Shd	CVVUCR	33	211121 J30	024	
023	SPIRE SMEC Drv Sense (N) . SHD03		SMG.-	-	S278	021BS-38	26			CVVUCR	33	211121 J30	023	
007	SPIRE SMEC PosSeLEDPwr(N) . S		SMH.-	-	S279	021BS-38	27		100 Ohm/1.0E-03 A	CVVUCR	33	211121 J30	009	
008	SPIRE SMEC PosSeLEDPwr(N) . R		SMH.-	-	S279	021BS-38	27		Cable S279 Shd	CVVUCR	33	211121 J30	002	
026	SPIRE SMEC PosSeLEDPwr(N) . SHD04		SMH.-	-	S279	021BS-38	27			CVVUCR	33	211121 J30	003	
027	SPIRE SMEC PosSensPwr(N) . S		SMH.-	-	S280	021BS-38	28		100 Ohm/1.0E-03 A	CVVUCR	33	211121 J30	011	
028	SPIRE SMEC PosSensPwr(N) . R		SMH.-	-	S280	021BS-38	28		Cable 280 Shd	CVVUCR	33	211121 J30	004	
009	SPIRE SMEC PosSensPwr(N) . SHD05		SMH.-	-	S280	021BS-38	28			CVVUCR	33	211121 J30	010	
010	SPIRE SMEC PosPhDI#1(N) . I+		SMJ.-	-	S281	021SS-38	29		1000 Ohm/2.0E-05 A	CVVUCR	33	211121 J30	018	
011	SPIRE SMEC PosPhDI#1(N) . I-		SMJ.-	-	S281	021SS-38	29		Cable 281 Shd	CVVUCR	33	211121 J30	019	
029	SPIRE SMEC PosPhDI#1(N) . SHD06		SMJ.-	-	S281	021SS-38	29			CVVUCR	33	211121 J30	029	
030	SPIRE SMEC PosPhDI#1FB(N) . S		SMK.-	-	S282	021SS-38	32		1000 Ohm/1.0E-05 A	CVVUCR	33	211121 J30	056	
031	SPIRE SMEC PosPhDI#1FB(N) . R		SMK.-	-	S282	021SS-38	32		Cable 282 Shd	CVVUCR	33	211121 J30	055	
012	SPIRE SMEC PosPhDI#1FB(N) . SHD09		SMK.-	-	S282	021SS-38	32			CVVUCR	33	211121 J30	044	
013	SPIRE SMEC PosPhDI#2(N) . I+		SMJ.-	-	S283	021SS-38	30		1000 Ohm/2.0E-05 A	CVVUCR	33	211121 J30	042	
014	SPIRE SMEC PosPhDI#2(N) . I-		SMJ.-	-	S283	021SS-38	30		Cable 283 Shd	CVVUCR	33	211121 J30	041	
032	SPIRE SMEC PosPhDI#2(N) . SHD07		SMJ.-	-	S283	021SS-38	30			CVVUCR	33	211121 J30	030	
033	SPIRE SMEC PosPhDI#2FB(N) . S		SMK.-	-	S284	021SS-38	33		1000 Ohm/1.0E-05 A	CVVUCR	33	211121 J30	034	
034	SPIRE SMEC PosPhDI#2FB(N) . R		SMK.-	-	S284	021SS-38	33		Cable 284 Shd	CVVUCR	33	211121 J30	033	
015	SPIRE SMEC PosPhDI#2FB(N) . SHD10		SMK.-	-	S284	021SS-38	33			CVVUCR	33	211121 J30	045	

# Pin Allocation List (Harness)

Connector: 121100 P29

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter SMEC Contr. Pr (C11)

Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
016	SPIRE SMEC PosPhDi#3(N) . I+	SMJ.-	-	S285	021SS-38	31		1000 Ohm/2.0E-05 A	CVVUCR	33	211121 J30	020	
017	SPIRE SMEC PosPhDi#3(N) . I-	SMJ.-	-	S285	021SS-38	31			CVVUCR	33	211121 J30	021	
035	SPIRE SMEC PosPhDi#3(N) . SHD08	SMJ.-	-	S285	021SS-38	31		Cable S285 Shd	CVVUCR	33	211121 J30	031	
036	SPIRE SMEC PosPhDi#3FB(N) . S	SMK.-	-	S286	021SS-38	34		1000 Ohm/1.0E-05 A	CVVUCR	33	211121 J30	058	
037	SPIRE SMEC PosPhDi#3FB(N) . R	SMK.-	-	S286	021SS-38	34			CVVUCR	33	211121 J30	057	
018	SPIRE SMEC PosPhDi#3FB(N) . SHD11	SMK.-	-	S286	021SS-38	34		Cable S286 Shd	CVVUCR	33	211121 J30	046	
006	NC												
019	NC												
024	NC												
025	NC												
CH	SPIRE FPU SMEC Contr. Faraday . SFF	SFF.-	-	S301	010B0-30			Faraday Shd con to Backshell ECR0039tbc	CVVUCR	33	211121 J30	006	3. 3. 3.
								No Bundle Overall Shd in Cold					



# Pin Allocation List (Harness)

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Project: **HERSCHEL**

Connector: 121100 P24

Function: SPIRE FPU Filter Termometry (C12)

Conn.-Type: MWDM2L-37P-6C3-.630

Item: HSFPU

Location: 70 / Optical Bench

Backshell: 507 T 196 M 37

EMC-Category: 2C/Sig H in Cryostat

Pin	Signal Designation	Diagram	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal Pos.	Wiring	Shd	Cable						
020	SPIRE FilterTemp(R) . I+		STA-	-	S306	041SS-38	33	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	089	
002	SPIRE FilterTemp(R) . V+		STA-	-	S306	041SS-38	33		CVVUCR	33	211121 J33	100	
003	SPIRE FilterTemp(R) . V-		STA-	-	S306	041SS-38	33		CVVUCR	33	211121 J33	099	
021	SPIRE FilterTemp(R) . I-		STA-	-	S306	041SS-38	33		CVVUCR	33	211121 J33	088	
001	SPIRE FilterTemp(R) . SHD06		STA-	-	S306	041SS-38	33	Cable S306 Shd	CVVUCR	33	211121 J33	101	
004	SPIRE SpecDetBoxTemp(R) . I+		STA-	-	S307	041SS-38	28	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	118	
023	SPIRE SpecDetBoxTemp(R) . V+		STA-	-	S307	041SS-38	28		CVVUCR	33	211121 J33	125	
024	SPIRE SpecDetBoxTemp(R) . V-		STA-	-	S307	041SS-38	28		CVVUCR	33	211121 J33	126	
005	SPIRE SpecDetBoxTemp(R) . I-		STA-	-	S307	041SS-38	28		CVVUCR	33	211121 J33	119	
022	SPIRE SpecDetBoxTemp(R) . SHD01		STA-	-	S307	041SS-38	28	Cable S307 Shd	CVVUCR	33	211121 J33	110	
025	SPIRE PhotomDetBoxTemp(R) . I+		STA-	-	S308	041SS-38	29	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	123	
007	SPIRE PhotomDetBoxTemp(R) . V+		STA-	-	S308	041SS-38	29		CVVUCR	33	211121 J33	116	
008	SPIRE PhotomDetBoxTemp(R) . V-		STA-	-	S308	041SS-38	29		CVVUCR	33	211121 J33	117	
026	SPIRE PhotomDetBoxTemp(R) . I-		STA-	-	S308	041SS-38	29		CVVUCR	33	211121 J33	124	
006	SPIRE PhotomDetBoxTemp(R) . SHD02		STA-	-	S308	041SS-38	29	Cable S308 Shd	CVVUCR	33	211121 J33	108	
009	SPIRE OptSubbenchTemp(R) . I+		STA-	-	S309	041SS-38	30	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	106	
028	SPIRE OptSubbenchTemp(R) . V+		STA-	-	S309	041SS-38	30		CVVUCR	33	211121 J33	107	
029	SPIRE OptSubbenchTemp(R) . V-		STA-	-	S309	041SS-38	30		CVVUCR	33	211121 J33	122	
010	SPIRE OptSubbenchTemp(R) . I-		STA-	-	S309	041SS-38	30		CVVUCR	33	211121 J33	115	
027	SPIRE OptSubbenchTemp(R) . SHD03		STA-	-	S309	041SS-38	30	Cable S309 Shd	CVVUCR	33	211121 J33	105	
030	SPIRE FPUInpBaffleTemp(R) . I+		STA-	-	S310	041SS-38	31	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	097	
012	SPIRE FPUInpBaffleTemp(R) . V+		STA-	-	S310	041SS-38	31		CVVUCR	33	211121 J33	086	
013	SPIRE FPUInpBaffleTemp(R) . V-		STA-	-	S310	041SS-38	31		CVVUCR	33	211121 J33	087	
031	SPIRE FPUInpBaffleTemp(R) . I-		STA-	-	S310	041SS-38	31		CVVUCR	33	211121 J33	098	
011	SPIRE FPUInpBaffleTemp(R) . SHD04		STA-	-	S310	041SS-38	31	Cable S310 Shd	CVVUCR	33	211121 J33	109	
014	SPIRE BSM/SOB /FTmp(R) . I+		STA-	-	S311	041SS-38	32	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	073	
033	SPIRE BSM/SOB /FTmp(R) . V+		STA-	-	S311	041SS-38	32		CVVUCR	33	211121 J33	074	
034	SPIRE BSM/SOB /FTmp(R) . V-		STA-	-	S311	041SS-38	32		CVVUCR	33	211121 J33	085	
015	SPIRE BSM/SOB /FTmp(R) . I-		STA-	-	S311	041SS-38	32		CVVUCR	33	211121 J33	084	
032	SPIRE BSM/SOB /FTmp(R) . SHD05		STA-	-	S311	041SS-38	32	Cable S311 Shd	CVVUCR	33	211121 J33	096	
017	SPIRE PTC Htr(R) . I+A		STB-	-	S312	041BS-30	34	100 Ohm/2.0E-03 A	CVVUCR	33	211121 J33	079	
018	SPIRE PTC Htr(R) . I+B		STB-	-	S312	041BS-30	34		CVVUCR	33	211121 J33	078	
036	SPIRE PTC Htr(R) . I+A		STB-	-	S312	041BS-30	34		CVVUCR	33	211121 J33	068	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 121100 P24

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter Termometry (C12)

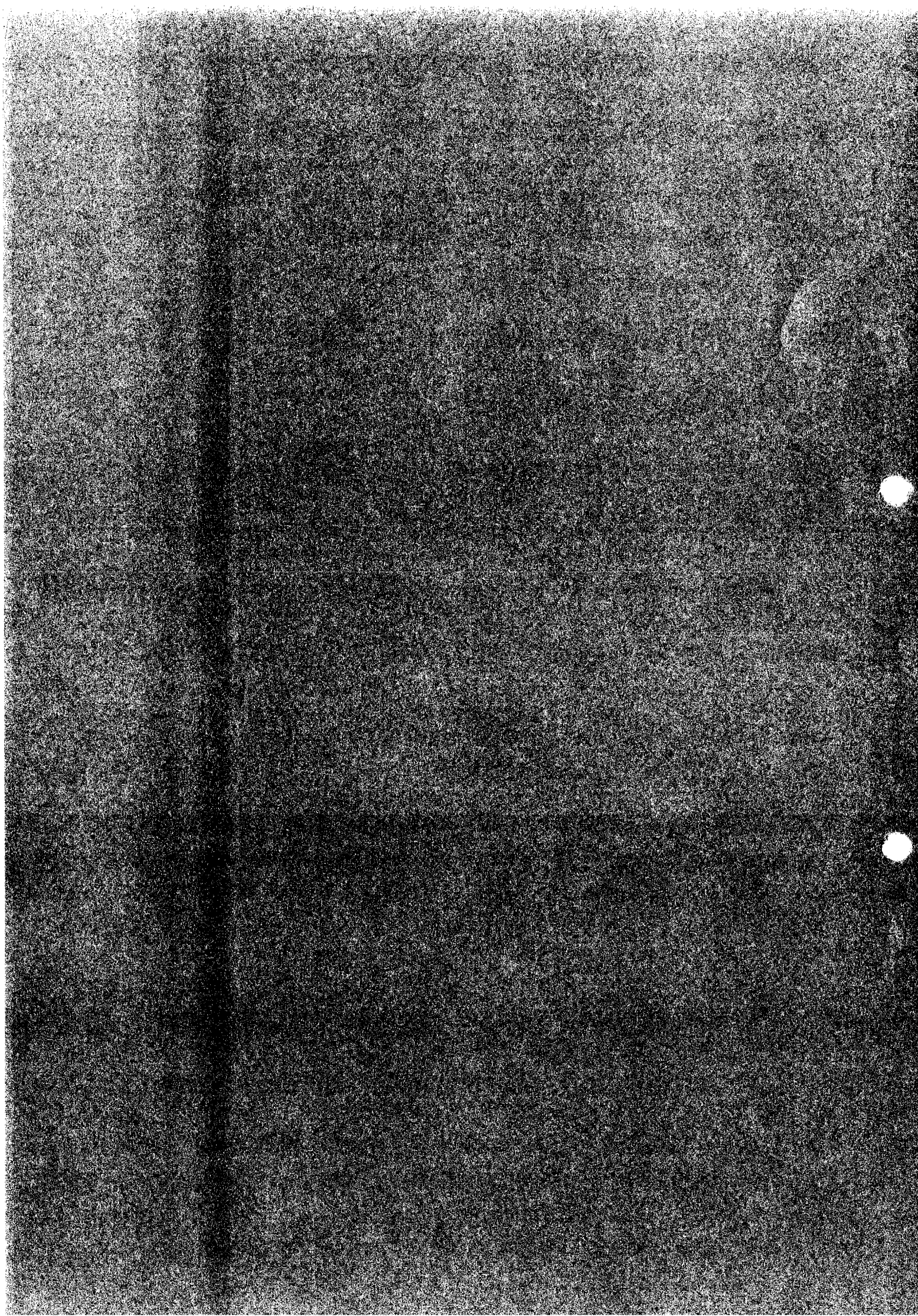
Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
037	SPIRE PTC Htr(R) . I-B	STB.-	-	S312	041BS-30	34		Cable S312 Shd	CVVUCR	33	211121 J33	067	
035	SPIRE PTC Htr(R) . SHD07	STB.-	-	S312	041BS-30	34			CVVUCR	33	211121 J33	090	
016	NC												
019	NC												
CH	SPIRE FPU FT Faraday . SFF	SFF.-	-	S302	010B0-30			Faraday Shd con to Backshell ECR0039tbc	CVVUCR	33	211121 J33	094	3. 3. 3.
-								No Bundle Overall Shd in Cold					







# Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 2)

Connector: 121100 P22

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter Spect. Stim. (C12)  
Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630  
Backshell: 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal Pos.			Shd	Cable Twist						
005	SPIRE Spectr4%Temp (R) . I+		SCA-	-	S295	041SS-38	27	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	111		
006	SPIRE Spectr4%Temp (R) . V+		SCA-	-	S295	041SS-38	27		CVVUCR	33	211121 J33	120		
024	SPIRE Spectr4%Temp (R) . V-		SCA-	-	S295	041SS-38	27		CVVUCR	33	211121 J33	128		
025	SPIRE Spectr4%Temp (R) . I-		SCA-	-	S295	041SS-38	27		CVVUCR	33	211121 J33	112		
023	SPIRE Spectr4%Temp (R) . SHD01		SCA-	-	S295	041SS-38	27	Cable S295 Shd	CVVUCR	33	211121 J33	121		
007	SPIRE Spectr2%Temp (R) . I+		SCA-	-	S296	041SS-38	28	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	091		
008	SPIRE Spectr2%Temp (R) . V+		SCA-	-	S296	041SS-38	28		CVVUCR	33	211121 J33	092		
026	SPIRE Spectr2%Temp (R) . V-		SCA-	-	S296	041SS-38	28		CVVUCR	33	211121 J33	081		
027	SPIRE Spectr2%Temp (R) . I-		SCA-	-	S296	041SS-38	28		CVVUCR	33	211121 J33	080		
009	SPIRE Spectr2%Temp (R) . SHD02		SCA-	-	S296	041SS-38	28	Cable S296 Shd	CVVUCR	33	211121 J33	093		
010	SPIRE SpStimFlanTemp(R) . I+		SCA-	-	S297	041SS-38	29	1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	114		
011	SPIRE SpStimFlanTemp(R) . V+		SCA-	-	S297	041SS-38	29		CVVUCR	33	211121 J33	113		
028	SPIRE SpStimFlanTemp(R) . V-		SCA-	-	S297	041SS-38	29		CVVUCR	33	211121 J33	103		
029	SPIRE SpStimFlanTemp(R) . I-		SCA-	-	S297	041SS-38	29		CVVUCR	33	211121 J33	104		
030	SPIRE SpStimFlanTemp(R) . SHD03		SCA-	-	S297	041SS-38	29	Cable S297 Shd	CVVUCR	33	211121 J33	102		
014	SPIRE Spectr4%Heater (R) . I+A		SCB-	-	S298	040B0-30		30 Ohm/9.0E-03 A	CVVUCR	33	211121 J33	035		
015	SPIRE Spectr4%Heater (R) . I+B		SCB-	-	S298	040B0-30			CVVUCR	33	211121 J33	024		
033	SPIRE Spectr4%Heater (R) . I-A		SCB-	-	S298	040B0-30			CVVUCR	33	211121 J33	034		
034	SPIRE Spectr4%Heater (R) . I-B		SCB-	-	S298	040B0-30			CVVUCR	33	211121 J33	023		
016	SPIRE Spectr2%Heater (R) . I+A		SCB-	-	S299	040B0-30		30 Ohm/7.0E-03 A	CVVUCR	33	211121 J33	046		
017	SPIRE Spectr2%Heater (R) . I+B		SCB-	-	S299	040B0-30			CVVUCR	33	211121 J33	058		
035	SPIRE Spectr2%Heater (R) . I-A		SCB-	-	S299	040B0-30			CVVUCR	33	211121 J33	045		
036	SPIRE Spectr2%Heater (R) . I-B		SCB-	-	S299	040B0-30			CVVUCR	33	211121 J33	057		
004	NC													
012	NC													
013	NC													
018	NC													
019	NC													
020	NC													
021	NC													
022	NC													
031	NC													
032	NC													
037	NC													
CH	SPIRE FPU FSS2 Faraday . SFF		SFF-	-	S303	010B0-30		Faraday Shd con to Backshell ECR0039tbc	CVVUCR	33	211121 J33	047	3. 3. 3.	

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 121100 P22

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter Spect. Stim. (C12)

Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
.								No Bundle Overall Shd in Cold					



# Pin Allocation List (Harness)

Connector: 121100 P20

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter Cooler (C12)

Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code Circuit Signal	Pos.	Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
						Shd	Cable Twist						
020	SPIRE SorptPumpTemp(R) . I+	S3E.-	-	S287	041SS-38	26		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	029	
001	SPIRE SorptPumpTemp(R) . V+	S3E.-	-	S287	041SS-38	26			CVVUCR	33	211121 J33	041	
002	SPIRE SorptPumpTemp(R) . V-	S3E.-	-	S287	041SS-38	26			CVVUCR	33	211121 J33	042	
021	SPIRE SorptPumpTemp(R) . I-	S3E.-	-	S287	041SS-38	26			CVVUCR	33	211121 J33	030	
003	SPIRE SorptPumpTemp(R) . SHD01	S3E.-	-	S287	041SS-38	26		Cable 287 Shd	CVVUCR	33	211121 J33	031	
022	SPIRE EvaporatorTemp(R) . I+	S3E.-	-	S288	041SS-38	27		1000 Ohm/250 nA	CVVUCR	33	211121 J33	077	
004	SPIRE EvaporatorTemp(R) . V+	S3E.-	-	S288	041SS-38	27			CVVUCR	33	211121 J33	066	
005	SPIRE EvaporatorTemp(R) . V-	S3E.-	-	S288	041SS-38	27			CVVUCR	33	211121 J33	065	
023	SPIRE EvaporatorTemp(R) . I-	S3E.-	-	S288	041SS-38	27			CVVUCR	33	211121 J33	076	
024	SPIRE EvaporatorTemp(R) . SHD02	S3E.-	-	S288	041SS-38	27		Cable 288 Shd	CVVUCR	33	211121 J33	054	
025	SPIRE SorptPumpSwTemp(R) . I+	S3E.-	-	S289	041SS-38	28		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	053	
006	SPIRE SorptPumpSwTemp(R) . V+	S3E.-	-	S289	041SS-38	28			CVVUCR	33	211121 J33	064	
007	SPIRE SorptPumpSwTemp(R) . V-	S3E.-	-	S289	041SS-38	28			CVVUCR	33	211121 J33	063	
026	SPIRE SorptPumpSwTemp(R) . I-	S3E.-	-	S289	041SS-38	28			CVVUCR	33	211121 J33	052	
008	SPIRE SorptPumpSwTemp(R) . SHD03	S3E.-	-	S289	041SS-38	28		Cable 289 Shd	CVVUCR	33	211121 J33	075	
027	SPIRE EvaporSwTemp(R) . I+	S3E.-	-	S290	041SS-38	29		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	050	
009	SPIRE EvaporSwTemp(R) . V+	S3E.-	-	S290	041SS-38	29			CVVUCR	33	211121 J33	062	
010	SPIRE EvaporSwTemp(R) . V-	S3E.-	-	S290	041SS-38	29			CVVUCR	33	211121 J33	051	
028	SPIRE EvaporSwTemp(R) . I-	S3E.-	-	S290	041SS-38	29			CVVUCR	33	211121 J33	061	
029	SPIRE EvaporSwTemp(R) . SHD04	S3E.-	-	S290	041SS-38	29		Cable 290 Shd	CVVUCR	33	211121 J33	039	
030	SPIRE ThermShuntTemp(R) . I+A	S3E.-	-	S291	041SS-38	30		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J33	011	
011	SPIRE ThermShuntTemp(R) . V+B	S3E.-	-	S291	041SS-38	30			CVVUCR	33	211121 J33	019	
012	SPIRE ThermShuntTemp(R) . V-A	S3E.-	-	S291	041SS-38	30			CVVUCR	33	211121 J33	018	
031	SPIRE ThermShuntTemp(R) . I-B	S3E.-	-	S291	041SS-38	30			CVVUCR	33	211121 J33	010	
013	SPIRE ThermShuntTemp(R) . SHD05	S3E.-	-	S291	041SS-38	30		Cable 291 Shd	CVVUCR	33	211121 J33	020	
014	SPIRE SorptPumpHtr(R) . I+A	S3F.-	-	S292	040B0-30			10 Ohm/2.5E-02 A	CVVUCR	33	211121 J33	006	
032	SPIRE SorptPumpHtr(R) . I+B	S3F.-	-	S292	040B0-30				CVVUCR	33	211121 J33	013	
015	SPIRE SorptPumpHtr(R) . I-A	S3F.-	-	S292	040B0-30				CVVUCR	33	211121 J33	005	
033	SPIRE SorptPumpHtr(R) . I-B	S3F.-	-	S292	040B0-30				CVVUCR	33	211121 J33	012	
016	SPIRE SorptPumpSwHtr(R) . I+A	S3F.-	-	S293	040B0-30			10 Ohm/1.5 mA	CVVUCR	33	211121 J33	022	
034	SPIRE SorptPumpSwHtr(R) . I+B	S3F.-	-	S293	040B0-30				CVVUCR	33	211121 J33	033	
017	SPIRE SorptPumpSwHtr(R) . I-A	S3F.-	-	S293	040B0-30				CVVUCR	33	211121 J33	021	

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 121100 P20

**Item:** HSFPU






**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Filter Cooler (C12)

**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-.630

**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal								
035	SPIRE SorptPumpSwHtr(R) . I-B 	S3F.-	-	040B0-30			CVVUCR	33	211121 J33	032	
018	SPIRE EvaporSwHtr(R) . I+A 	S3F.-	-	040B0-30		50 Ohm/1.5E-03 A	CVVUCR	33	211121 J33	055	
036	SPIRE EvaporSwHtr(R) . I+B 	S3F.-	-	040B0-30			CVVUCR	33	211121 J33	056	
019	SPIRE EvaporSwHtr(R) . I-A 	S3F.-	-	040B0-30			CVVUCR	33	211121 J33	043	
037	SPIRE EvaporSwHtr(R) . I-B 	S3F.-	-	040B0-30			CVVUCR	33	211121 J33	044	
CH	SPIRE FPU FC 2 Faraday . SFF	SFF.-	-	010B0-30		Faraday Shd conto Backshell ECR0039tbc	CVVUCR	33	211121 J33	004	3. 3. 3.
						No Bundle Overall Shd in Cold					



# Pin Allocation List (Harness)

Connector: 121100 P26  
Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter BSM Phot. Stim (C13)  
Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-.630  
Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
001	SPIRE ChopSensor1&2(R) . 1	SBA.-	-	S313	021SS-38	25		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J29	051	
020	SPIRE ChopSensor1&2(R) . 2	SBA.-	-	S313	021SS-38	25		Cable S313 to S316 Shd con together	CVVUCR	33	211121 J29	040	
022	SPIRE ChopSensor1&2(R) . SHD01	SBA.-	-	S313	021SS-38	25			CVVUCR	33	211121 J29	039	
002	SPIRE ChopSensor3-5(R) . 3	SBB.-	-	S314	031BS-38	27		1000 Ohm/250 nA	CVVUCR	33	211121 J29	028	
021	SPIRE ChopSensor3-5(R) . 4	SBB.-	-	S314	031BS-38	27		Cable S313 to S316 Shd con together	CVVUCR	33	211121 J29	017	
003	SPIRE ChopSensor3-5(R) . 5	SBB.-	-	S314	031BS-38	27			CVVUCR	33	211121 J29	016	
022	SPIRE ChopSensor3-5(R) . SHD03	SBB.-	-	S314	031BS-38	27		CVVUCR	33	211121 J29	027		
004	SPIRE JiggleSensor1&2(R) . 1	SBA.-	-	S315	021SS-38	26		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J29	049	
023	SPIRE JiggleSensor1&2(R) . 2	SBA.-	-	S315	021SS-38	26		Cable S313 to S316 Shd con together	CVVUCR	33	211121 J29	050	
022	SPIRE JiggleSensor1&2(R) . SHD02	SBA.-	-	S315	021SS-38	26			CVVUCR	33	211121 J29	038	
005	SPIRE JiggleSensor3-5(R) . 3	SBB.-	-	S316	031BS-38	28		1000 Ohm/250 nA	CVVUCR	33	211121 J29	015	
024	SPIRE JiggleSensor3-5(R) . 4	SBB.-	-	S316	031BS-38	28		Cable S313 to S316 Shd con together	CVVUCR	33	211121 J29	025	
006	SPIRE JiggleSensor3-5(R) . 5	SBB.-	-	S316	031BS-38	28			CVVUCR	33	211121 J29	037	
022	SPIRE JiggleSensor3-5(R) . SHD04	SBB.-	-	S316	031BS-38	28		CVVUCR	33	211121 J29	026		
007	SPIRE BSMTemp(R) . I+	SBC.-	-	S317	041SS-38	29		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J29	086	
026	SPIRE BSMTemp(R) . V+	SBC.-	-	S317	041SS-38	29		Cable 317 Shd	CVVUCR	33	211121 J29	097	
008	SPIRE BSMTemp(R) . V-	SBC.-	-	S317	041SS-38	29			CVVUCR	33	211121 J29	098	
027	SPIRE BSMTemp(R) . I-	SBC.-	-	S317	041SS-38	29		10 Ohm/7.0E-03 A	CVVUCR	33	211121 J29	087	
025	SPIRE BSMTemp(R) . SHD05	SBC.-	-	S317	041SS-38	29			CVVUCR	33	211121 J29	075	
028	SPIRE P-Cal Htr (R) . I+A	SBD.-	-	S318	041BS-30	30		Cable S318 Shd	CVVUCR	33	211121 J29	048	
010	SPIRE P-Cal Htr (R) . I+B	SBD.-	-	S318	041BS-30	30			CVVUCR	33	211121 J29	071	
029	SPIRE P-Cal Htr (R) . I-A	SBD.-	-	S318	041BS-30	30		1000 Ohm/1.0E-03 A	CVVUCR	33	211121 J29	060	
011	SPIRE P-Cal Htr (R) . I-B	SBD.-	-	S318	041BS-30	30			CVVUCR	33	211121 J29	059	
009	SPIRE P-Cal Htr (R) . SHD06	SBD.-	-	S318	041BS-30	30		Cable S318 Shd	CVVUCR	33	211121 J29	036	
030	SPIRE BSMLchLitchConf(R) . 1	SBE.-	-	S319	021SS-38	31		1000 Ohm/1.0E-03 A	CVVUCR	33	211121 J29	108	
012	SPIRE BSMLchLitchConf(R) . 2	SBE.-	-	S319	021SS-38	31			CVVUCR	33	211121 J29	116	

# Pin Allocation List (Harness)

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Project: HERSCHEL

Connector: 121100 P26

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter BSM Phot. Stim (C13)

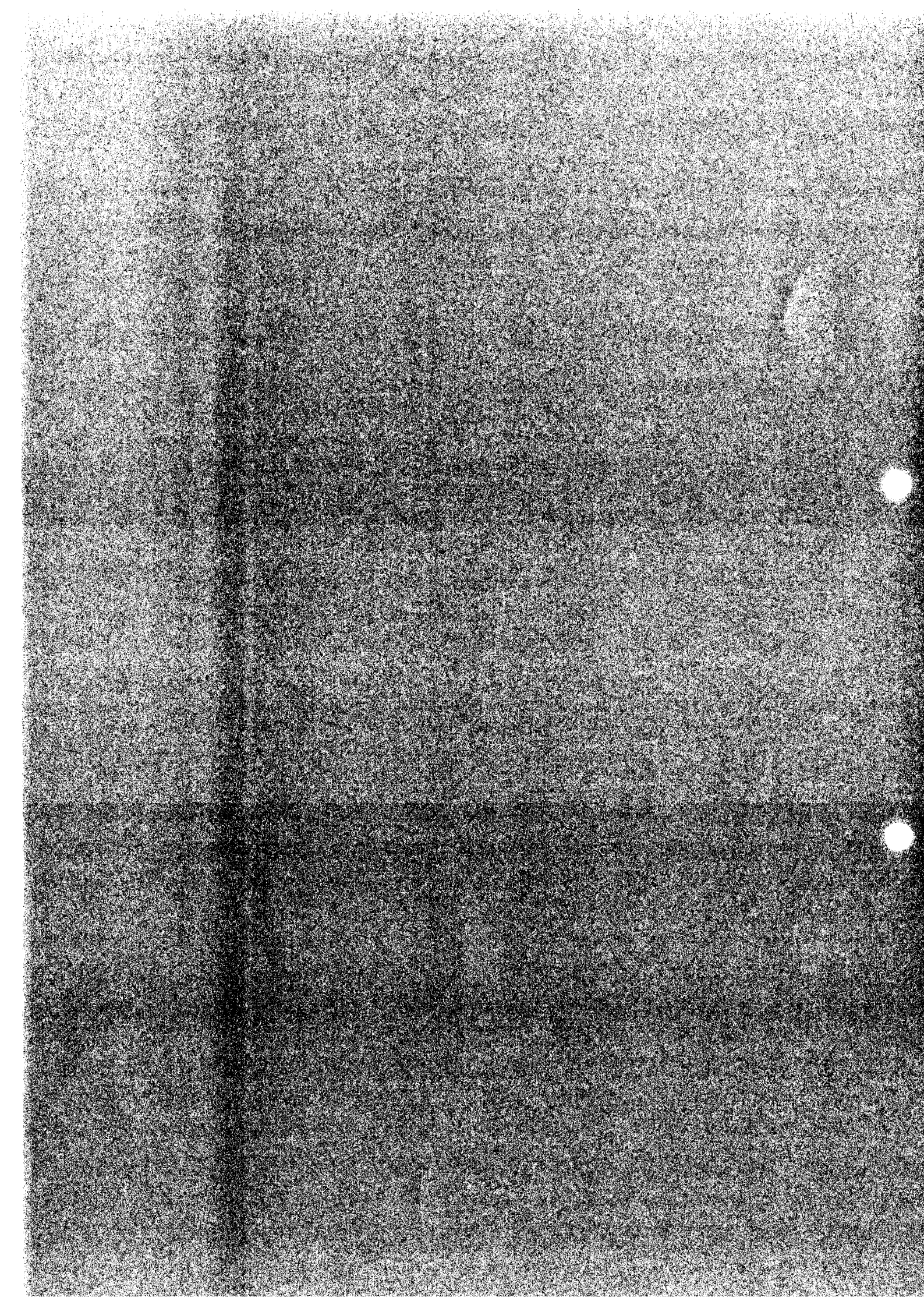
Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3-630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
031	SPIRE BSMLchLchConf(R) . SHD07	SBE.-	-	S319	021SS-38	31		Cable S319 Shd	CVWUCR	33	211121 J29	107	
013	SPIRE BSMLatchDrive(R) . SUP	SBF.-	-	S320	021BS-30	32		10 Ohm/3.5E-02 A	CVWUCR	33	211121 J29	105	
032	SPIRE BSMLatchDrive(R) . RTN	SBF.-	-	S320	021BS-30	32			CVWUCR	33	211121 J29	115	
033	SPIRE BSMLatchDrive(R) . SHD08	SBF.-	-	S320	021BS-30	32		Cable S320 Shd	CVWUCR	33	211121 J29	106	
015	SPIRE ChopMotDrive(R) . 1	SBG.-	-	S321	041BS-30	33		10 Ohm/4.0E-02 A	CVWUCR	33	211121 J29	072	
034	SPIRE ChopMotDrive(R) . 2	SBG.-	-	S321	041BS-30	33			CVWUCR	33	211121 J29	061	
016	SPIRE ChopMotDrive(R) . 3	SBG.-	-	S321	041BS-30	33			CVWUCR	33	211121 J29	062	
035	SPIRE ChopMotDrive(R) . 4	SBG.-	-	S321	041BS-30	33			CVWUCR	33	211121 J29	074	
017	SPIRE ChopMotDrive(R) . SHD09	SBG.-	-	S321	041BS-30	33		Cable S321,322 Shd con together	CVWUCR	33	211121 J29	073	
036	SPIRE JiggleMotDrive(R) . 1	SBG.-	-	S322	041BS-30	34		10 Ohm/4.0E-02 A	CVWUCR	33	211121 J29	083	
018	SPIRE JiggleMotDrive(R) . 2	SBG.-	-	S322	041BS-30	34			CVWUCR	33	211121 J29	095	
037	SPIRE JiggleMotDrive(R) . 3	SBG.-	-	S322	041BS-30	34			CVWUCR	33	211121 J29	096	
019	SPIRE JiggleMotDrive(R) . 4	SBG.-	-	S322	041BS-30	34			CVWUCR	33	211121 J29	085	
017	SPIRE JiggleMotDrive(R) . SHD10	SBG.-	-	S322	041BS-30	34		Cable S321,322 Shd con together	CVWUCR	33	211121 J29	084	
CH	SPIRE FPU BSM PS Faraday . SFF	SFF.-	-	S305	010B0-30			Faraday Shd con to Backshell ECR0039tbc	CVWUCR	33	211121 J29	082	3. 3. 3.
								No Bundle Overall Shd in Cold					





# Pin Allocation List (Harness)

**Connector:** 121100 P28  
**Item:** HSFPU

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Filter SMEC Launch Re(C13)  
**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-.630  
**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE SMECLL#1Conf(R) . 1+	SME.-	-	S323	021BS-30	34		5 Ohm/1.0E-03 A	CVVUCR	33	211121 J29	117	
020	SPIRE SMECLL#1Conf(R) . 1-	SME.-	-	S323	021BS-30	34		Cable S323, 324 Shd co together, daisy ch to pin 03	CVVUCR	33	211121 J29	118	
003	SPIRE SMECLL#1Conf(R) . SHD06	SME.-	-	S323	021BS-30	34			CVVUCR	33	211121 J29	109	
002	SPIRE SMECLL#2Conf(R) . 2+	SME.-	-	S324	021BS-30	35		5 Ohm/1.0E-03 A	CVVUCR	33	211121 J29	111	
021	SPIRE SMECLL#2Conf(R) . 2-	SME.-	-	S324	021BS-30	35		Cable S323, 324 Shd co together, daisy ch to pin 03	CVVUCR	33	211121 J29	119	
003	SPIRE SMECLL#2Conf(R) . SHD07	SME.-	-	S324	021BS-30	35			CVVUCR	33	211121 J29	110	
022	SPIRE SMECLL#1Pwr1(A/R) . S1	SMF.-	-	S325	021BS-30	36		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J29	067	
023	SPIRE SMECLL#1Pwr1(A/R) . R1	SMF.-	-	S325	021BS-30	36		Cable S325 Shd	CVVUCR	33	211121 J29	066	
004	SPIRE SMECLL#1Pwr1(A/R) . SHD08	SMF.-	-	S325	021BS-30	36			CVVUCR	33	211121 J29	078	
005	SPIRE SMECLL#1Pwr2(B/R) . S2	SMF.-	-	S326	021BS-30	37		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J29	069	
006	SPIRE SMECLL#1Pwr2(B/R) . R2	SMF.-	-	S326	021BS-30	37		Cable S326 Shd	CVVUCR	33	211121 J29	068	
024	SPIRE SMECLL#1Pwr2(B/R) . SHD09	SMF.-	-	S326	021BS-30	37			CVVUCR	33	211121 J29	080	
025	SPIRE SMECLL#2Pwr1(A/R) . S1	SMF.-	-	S327	021BS-30	38		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J29	090	
026	SPIRE SMECLL#2Pwr1(A/R) . R1	SMF.-	-	S327	021BS-30	38		Cable S327 Shd	CVVUCR	33	211121 J29	091	
007	SPIRE SMECLL#2Pwr1(A/R) . SHD10	SMF.-	-	S327	021BS-30	38			CVVUCR	33	211121 J29	079	
008	SPIRE SMECLL#2Pwr2(B/R) . S2	SMF.-	-	S328	021BS-30	39		5 Ohm/4.0E-01 A	CVVUCR	33	211121 J29	092	
009	SPIRE SMECLL#2Pwr2(B/R) . R2	SMF.-	-	S328	021BS-30	39		Cable S328 Shd	CVVUCR	33	211121 J29	093	
027	SPIRE SMECLL#2Pwr2(B/R) . SHD11	SMF.-	-	S328	021BS-30	39			CVVUCR	33	211121 J29	081	
028	SPIRE SMECTemp(R) . I+	SMC.-	-	S329	041SS-38	32		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J29	088	
010	SPIRE SMECTemp(R) . V+	SMC.-	-	S329	041SS-38	32		Cable S329 Shd	CVVUCR	33	211121 J29	099	
029	SPIRE SMECTemp(R) . V-	SMC.-	-	S329	041SS-38	32			CVVUCR	33	211121 J29	100	
011	SPIRE SMECTemp(R) . I-	SMC.-	-	S329	041SS-38	32		Cable S329 Shd	CVVUCR	33	211121 J29	089	
030	SPIRE SMECTemp(R) . SHD04	SMC.-	-	S329	041SS-38	32			CVVUCR	33	211121 J29	077	
031	SPIRE SMEC/SOB I/FTmp(R) (#13) . I+	SMC.-	-	S330	041SS-38	33		1000 Ohm/1.0E-06 A	CVVUCR	33	211121 J29	054	
013	SPIRE SMEC/SOB I/FTmp(R) (#13) . V+	SMC.-	-	S330	041SS-38	33		Cable S329 Shd	CVVUCR	33	211121 J29	065	
032	SPIRE SMEC/SOB I/FTmp(R) (#13) . V-	SMC.-	-	S330	041SS-38	33			CVVUCR	33	211121 J29	064	
014	SPIRE SMEC/SOB I/FTmp(R) (#13) . I-	SMC.-	-	S330	041SS-38	33		CVVUCR	33	211121 J29	053		

**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List (Harness)

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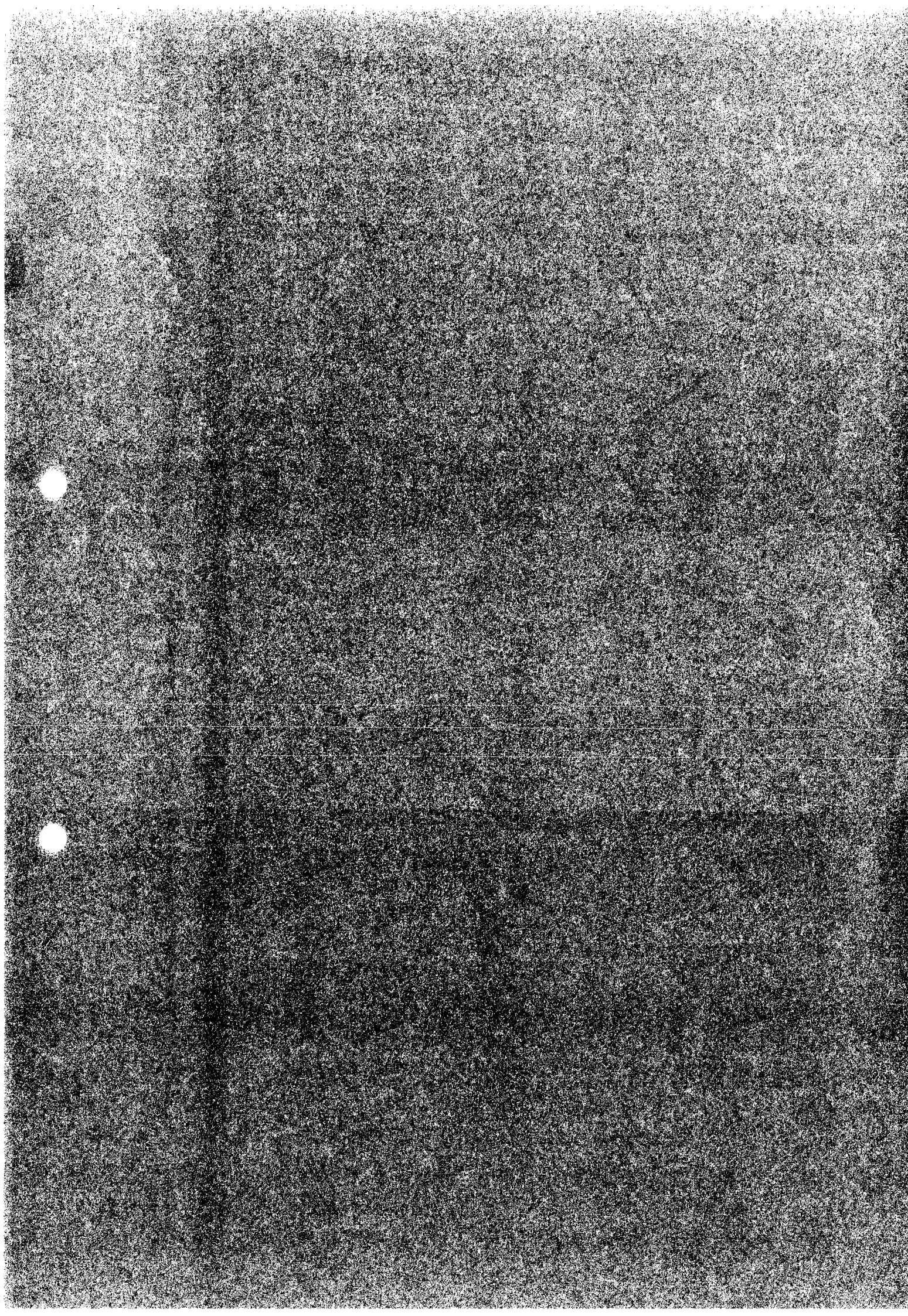
**Connector:** 121100 P28  
**Item:** HSFPU  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Filter SMEC Launch Re(C13)  
**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-.630  
**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal		Wiring	Shd	Cable						
012	SPIRE SMEC/SOB 1/Temp(R) (#13) . SHD05		SMC.-	-	S330	041SS-38	33	33	Cable S330 Shd	CVVUCR	33	211121 J29	076	
033	SPIRE SMECLVDTPriCIPw(R) . P		SMA.-	-	S331	021BS-30	29	29	5 Ohm/5.0E-03 A	CVVUCR	33	211121 J29	101	
034	SPIRE SMECLVDTPriCIPw(R) . N		SMA.-	-	S331	021BS-30	29	29	Cable S331 Shd	CVVUCR	33	211121 J29	102	
015	SPIRE SMECLVDTPriCIPw(R) . SHD01		SMA.-	-	S331	021BS-30	29	29		CVVUCR	33	211121 J29	112	
035	SPIRE SMECLVDTSCI#1Sg(R) . P		SMB.-	-	S332	021BS-30	30	30	5 Ohm/5.0E-05 A	CVVUCR	33	211121 J29	127	
036	SPIRE SMECLVDTSCI#1Sg(R) . N		SMB.-	-	S332	021BS-30	30	30		CVVUCR	33	211121 J29	120	
017	SPIRE SMECLVDTSCI#1Sg(R) . SHD02		SMB.-	-	S332	021BS-30	30	30	Cable S332 Shd	CVVUCR	33	211121 J29	128	
018	SPIRE SMECLVDTSCI#2Sg(R) . P		SMB.-	-	S333	021BS-30	31	31	5 Ohm/5.0E-05 A	CVVUCR	33	211121 J29	114	
019	SPIRE SMECLVDTSCI#2Sg(R) . N		SMB.-	-	S333	021BS-30	31	31		CVVUCR	33	211121 J29	113	
037	SPIRE SMECLVDTSCI#2Sg(R) . SHD03		SMB.-	-	S333	021BS-30	31	31	Cable S332 Shd	CVVUCR	33	211121 J29	121	
CH	SPIRE FPU SMEC LR Faraday . SFF		SFF.-	-	S351	010B0-30			Faraday Shd con to Backshell ECR0039fbc	CVVUCR	33	211121 J29	104	3. 3. 3.
-	Overall shield = Faraday shield								No Bundle Overall Shd in Cold					3.





# Pin Allocation List (Harness)

Connector: 121100 P30

Item: HSFPU

EMC-Category: 2C/Sig H in Cryostat

Function: SPIRE FPU Filter SMEC Contr. Re (C13)

Location: 70 / Optical Bench

Conn.-Type: MWDM2L-37P-6C3--630

Backshell: 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	SPIRE SMEC Drv Coil (R) . I+	SMD.-	-	S334	021BS-30	28		5 Ohm/1.0E-01 A	CVVUCR	33	211121 J29	012	
002	SPIRE SMEC Drv Coil (R) . I-	SMD.-	-	S334	021BS-30	28		Cable S334 Shd	CVVUCR	33	211121 J29	005	
020	SPIRE SMEC Drv Coil (R) . SHD01	SMD.-	-	S334	021BS-30	28			CVVUCR	33	211121 J29	013	
021	SPIRE SMEC Drv Coil (Rob) (R) . I+	SMD.-	-	S335	021BS-30	29		5 Ohm/1.0E-01 A	CVVUCR	33	211121 J29	022	
022	SPIRE SMEC Drv Coil (Rob) (R) . I-	SMD.-	-	S335	021BS-30	29		Cable S335 Shd	CVVUCR	33	211121 J29	007	
003	SPIRE SMEC Drv Coil (Rob) (R) . SHD02	SMD.-	-	S335	021BS-30	29			CVVUCR	33	211121 J29	013	
004	SPIRE SMEC Drv Sense (R) . Sen+	SMG.-	-	S336	021BS-38	30		500 Ohm/1.0E-05 A	CVVUCR	33	211121 J29	014	
005	SPIRE SMEC Drv Sense (R) . Sen-	SMG.-	-	S336	021BS-38	30		Cable S336 Shd	CVVUCR	33	211121 J29	024	
023	SPIRE SMEC Drv Sense (R) . SHD03	SMG.-	-	S336	021BS-38	30			CVVUCR	33	211121 J29	023	
007	SPIRE SMEC PosSeLEDPwr(R) . S	SMH.-	-	S337	021BS-38	31		100 Ohm/1.0E-03 A	CVVUCR	33	211121 J29	009	
008	SPIRE SMEC PosSeLEDPwr(R) . R	SMH.-	-	S337	021BS-38	31		Cable S337 Shd	CVVUCR	33	211121 J29	002	
026	SPIRE SMEC PosSeLEDPwr(R) . SHD04	SMH.-	-	S337	021BS-38	31			CVVUCR	33	211121 J29	003	
027	SPIRE SMEC PosSensPwr(R) . S	SMH.-	-	S338	021BS-38	32		100 Ohm/1.0E-03 A	CVVUCR	33	211121 J29	011	
028	SPIRE SMEC PosSensPwr(R) . R	SMH.-	-	S338	021BS-38	32		Cable S338 Shd	CVVUCR	33	211121 J29	004	
009	SPIRE SMEC PosSensPwr(R) . SHD05	SMH.-	-	S338	021BS-38	32			CVVUCR	33	211121 J29	010	
010	SPIRE SMEC PosPhD#1(R) . I+	SMJ.-	-	S339	021SS-38	33		1000 Ohm/2.0E-05 A	CVVUCR	33	211121 J29	018	
011	SPIRE SMEC PosPhD#1(R) . I-	SMJ.-	-	S339	021SS-38	33		Cable S339 Shd	CVVUCR	33	211121 J29	019	
029	SPIRE SMEC PosPhD#1(R) . SHD06	SMJ.-	-	S339	021SS-38	33			CVVUCR	33	211121 J29	029	
030	SPIRE SMEC PosPhD#1FB(R) . S	SMK.-	-	S340	021SS-38	36		1000 Ohm/1.0E-05 A	CVVUCR	33	211121 J29	056	
031	SPIRE SMEC PosPhD#1FB(R) . R	SMK.-	-	S340	021SS-38	36		Cable S340 Shd	CVVUCR	33	211121 J29	055	
012	SPIRE SMEC PosPhD#1FB(R) . SHD09	SMK.-	-	S340	021SS-38	36			CVVUCR	33	211121 J29	044	
013	SPIRE SMEC PosPhD#2(R) . I+	SMJ.-	-	S341	021SS-38	34		1000 Ohm/2.0E-05 A	CVVUCR	33	211121 J29	042	
014	SPIRE SMEC PosPhD#2(R) . I-	SMJ.-	-	S341	021SS-38	34		Cable S341 Shd	CVVUCR	33	211121 J29	041	
032	SPIRE SMEC PosPhD#2(R) . SHD07	SMJ.-	-	S341	021SS-38	34			CVVUCR	33	211121 J29	030	
033	SPIRE SMEC PosPhD#2FB(R) . S	SMK.-	-	S342	021SS-38	37		1000 Ohm/2.0E-05 A	CVVUCR	33	211121 J29	034	
034	SPIRE SMEC PosPhD#2FB(R) . R	SMK.-	-	S342	021SS-38	37		Cable S342 Shd	CVVUCR	33	211121 J29	033	
015	SPIRE SMEC PosPhD#2FB(R) . SHD10	SMK.-	-	S342	021SS-38	37			CVVUCR	33	211121 J29	045	

**Astrium GmbH**  
 Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-2 (of 2)

**Connector:** 121100 P30  
**Item:** HSFPU  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** SPIRE FPU Filter SMEC Contr. Re (C13)  
**Location:** 70 / Optical Bench

**Conn.-Type:** MWDM2L-37P-6C3-.630  
**Backshell:** 507 T 196 M 37

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
016	SPIRE SMEC PosPhDi#3(R) . I+	SMJ.-	-	S343	021SS-38	35		1000 Ohm/2.0E-05 A	CVVUCR	33	211121 J29	020	
017	SPIRE SMEC PosPhDi#3(R) . I-	SMJ.-	-	S343	021SS-38	35			CVVUCR	33	211121 J29	021	
035	SPIRE SMEC PosPhDi#3(R) . SHD08	SMJ.-	-	S343	021SS-38	35		Cable S343 Shd	CVVUCR	33	211121 J29	031	
036	SPIRE SMEC PosPhDi#3FB(R) . S	SMK.-	-	S344	021SS-38	38		1000 Ohm/2.0E-05 A	CVVUCR	33	211121 J29	058	
037	SPIRE SMEC PosPhDi#3FB(R) . R	SMK.-	-	S344	021SS-38	38			CVVUCR	33	211121 J29	057	
018	SPIRE SMEC PosPhDi#3FB(R) . SHD11	SMK.-	-	S344	021SS-38	38		Cable 344 Shd	CVVUCR	33	211121 J29	046	
006	NC												
019	NC												
024	NC												
025	NC												
CH	SPIRE FPU SMEC CR Faraday . SFF	SFF.-	-	S352	010E0-30			Faraday Shd con to Backshell ECR0039tbc	CVVUCR	33	211121 J29	006	3. 3. 3.
								No Bundle Overall Shd					



# Pin Allocation List (Harness)

Connector: 211121 J32

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFTnr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.	Ch. ID	Wiring	Shd Cable Twist						
115	SPIRE SLW GND Wire A1	SSX	-	S401	010B0-30		Con to Cables from P05 GND/Shlds	HSJFS	76	121220 P05	013	
026	SPIRE SLW Ch01-04 . 1+	SSB	-	S001	12AXD-38 1		SLW-R1	HSJFS	76	121220 P05	001	
037	SPIRE SLW Ch01-04 . 1-	SSB	-	S001	12AXD-38 1			HSJFS	76	121220 P05	014	
115	SPIRE SLW Ch01-04 . 1gnd	SSB	-	S001	12AXD-38 1		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
038	SPIRE SLW Ch01-04 . 2+	SSB	-	S001	12AXD-38 1		SLW-T1	HSJFS	76	121220 P05	002	
049	SPIRE SLW Ch01-04 . 2-	SSB	-	S001	12AXD-38 1			HSJFS	76	121220 P05	015	
115	SPIRE SLW Ch01-04 . 2gnd	SSB	-	S001	12AXD-38 1		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
048	SPIRE SLW Ch01-04 . 3+	SSB	-	S001	12AXD-38 1		SLW-C1	HSJFS	76	121220 P05	003	
060	SPIRE SLW Ch01-04 . 3-	SSB	-	S001	12AXD-38 1			HSJFS	76	121220 P05	016	
115	SPIRE SLW Ch01-04 . 3gnd	SSB	-	S001	12AXD-38 1		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
059	SPIRE SLW Ch01-04 . 4+	SSB	-	S001	12AXD-38 1		SLW-DK1	HSJFS	76	121220 P05	004	
071	SPIRE SLW Ch01-04 . 4-	SSB	-	S001	12AXD-38 1			HSJFS	76	121220 P05	017	
115	SPIRE SLW Ch01-04 . 4gnd	SSB	-	S001	12AXD-38 1		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
115	SPIRE SLW Ch01-04 . SHD01	SSB	-	S001	12AXD-38 1		Cable S001 inner Shd daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
-	Cable S001 12 AXD Outer Shield						Cable S001 outer Shd con to Busbar (Faraday)					
050	SPIRE SLW Ch05-08 . 5+	SSB	-	S002	12AXD-38 2		SLW-B1	HSJFS	76	121220 P05	005	
061	SPIRE SLW Ch05-08 . 5-	SSB	-	S002	12AXD-38 2			HSJFS	76	121220 P05	018	
115	SPIRE SLW Ch05-08 . 5gnd	SSB	-	S002	12AXD-38 2		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
062	SPIRE SLW Ch05-08 . 6+	SSB	-	S002	12AXD-38 2		SLW-D1	HSJFS	76	121220 P05	006	
051	SPIRE SLW Ch05-08 . 6-	SSB	-	S002	12AXD-38 2			HSJFS	76	121220 P05	019	
115	SPIRE SLW Ch05-08 . 6gnd	SSB	-	S002	12AXD-38 2		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
063	SPIRE SLW Ch05-08 . 7+	SSB	-	S002	12AXD-38 2		SLW-E1	HSJFS	76	121220 P05	020	
075	SPIRE SLW Ch05-08 . 7-	SSB	-	S002	12AXD-38 2			HSJFS	76	121220 P05	007	
115	SPIRE SLW Ch05-08 . 7gnd	SSB	-	S002	12AXD-38 2		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
074	SPIRE SLW Ch05-08 . 8+	SSB	-	S002	12AXD-38 2		SLW-A1	HSJFS	76	121220 P05	021	
073	SPIRE SLW Ch05-08 . 8-	SSB	-	S002	12AXD-38 2			HSJFS	76	121220 P05	008	



# Pin Allocation List (Harness)

**Connector:** 211121 J32  
**Item:** CVVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
115	SPIRE SLW Ch05-08 . 8gnd	SSB.-	-	S002	12AXD-38	2		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
115	SPIRE SLW Ch05-08 . SHD02	SSB.-	-	S002	12AXD-38	2		Cable S002 inner Shd daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
-	Cable S002 12 AXD Outer Shield							Cable S002 outer Shd con to Busbar (Faraday)					
063	SPIRE SLW Ch09-12 . 9+	SSB.-	-	S003	12AXD-38	3		SLW-C2	HSJFS	76	121220 P05	022	
072	SPIRE SLW Ch09-12 . 9-	SSB.-	-	S003	12AXD-38	3			HSJFS	76	121220 P05	009	
115	SPIRE SLW Ch09-12 . 9gnd	SSB.-	-	S003	12AXD-38	3		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
095	SPIRE SLW Ch09-12 . 10+	SSB.-	-	S003	12AXD-38	3		SLW-D2	HSJFS	76	121220 P05	023	
084	SPIRE SLW Ch09-12 . 10-	SSB.-	-	S003	12AXD-38	3			HSJFS	76	121220 P05	010	
115	SPIRE SLW Ch09-12 . 10gnd	SSB.-	-	S003	12AXD-38	3		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
096	SPIRE SLW Ch09-12 . 11+	SSB.-	-	S003	12AXD-38	3		SLW-B2	HSJFS	76	121220 P05	024	
085	SPIRE SLW Ch09-12 . 11-	SSB.-	-	S003	12AXD-38	3			HSJFS	76	121220 P05	011	
115	SPIRE SLW Ch09-12 . 11gnd	SSB.-	-	S003	12AXD-38	3		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
106	SPIRE SLW Ch09-12 . 12+	SSB.-	-	S003	12AXD-38	3		SLW-E2	HSJFS	76	121220 P05	025	
107	SPIRE SLW Ch09-12 . 12-	SSB.-	-	S003	12AXD-38	3			HSJFS	76	121220 P05	012	
115	SPIRE SLW Ch09-12 . 12gnd	SSB.-	-	S003	12AXD-38	3		Daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
115	SPIRE SLW Ch09-12 . SHD03	SSB.-	-	S003	12AXD-38	3		Cable S003 inner Shd daisy ch to Pin 115 (A1)	HSJFS	76	121220 P05	013	
-	Cable S003 12 AXD Outer Shield							Cable S003 outer Shd con to Busbar (Faraday)					
122	SPIRE SLW GND Wire A2	SSX.-	-	S402	010B0-30			GND Wire A2 con to all Cable 004, 005 and 006 gnd shld	HSJFS	76	121220 P06	013	
086	SPIRE SLW Ch13-16 . 13+	SSB.-	-	S004	12AXD-38	4		SLW-A2	HSJFS	76	121220 P06	001	
087	SPIRE SLW Ch13-16 . 13-	SSB.-	-	S004	12AXD-38	4			HSJFS	76	121220 P06	014	
122	SPIRE SLW Ch13-16 . 13gnd	SSB.-	-	S004	12AXD-38	4		Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
097	SPIRE SLW Ch13-16 . 14+	SSB.-	-	S004	12AXD-38	4		SLW-C3	HSJFS	76	121220 P06	002	
098	SPIRE SLW Ch13-16 . 14-	SSB.-	-	S004	12AXD-38	4			HSJFS	76	121220 P06	015	

# Pin Allocation List (Harness)

**Connector:** 211121 J32  
**Item:** CVVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
122	SPIRE SLW Ch13-16 . 14gnd	SSB.-	-	S004	12AXD-38	4		Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
108	SPIRE SLW Ch13-16 . 15+	SSB.-	-	S004	12AXD-38	4		SLW-D3	HSJFS	76	121220 P06	003	
109	SPIRE SLW Ch13-16 . 15-	SSB.-	-	S004	12AXD-38	4			HSJFS	76	121220 P06	016	
122	SPIRE SLW Ch13-16 . 15gnd	SSB.-	-	S004	12AXD-38	4		Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
116	SPIRE SLW Ch13-16 . 16+	SSB.-	-	S004	12AXD-38	4		SLW-B3	HSJFS	76	121220 P06	004	
117	SPIRE SLW Ch13-16 . 16-	SSB.-	-	S004	12AXD-38	4			HSJFS	76	121220 P06	017	
122	SPIRE SLW Ch13-16 . 16gnd	SSB.-	-	S004	12AXD-38	4		Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
122	SPIRE SLW Ch13-16 . SHD01	SSB.-	-	S004	12AXD-38	4		Cable S004 inner Shd daisy ch to Pin 122 at CVV side (A2)	HSJFS	76	121220 P06	013	
-	Cable S004 12 AXD Outer Shield							Cable S004 outer Shd con to Busbar (Faraday)					
055	SPIRE SLW Ch17-20 . 17+	SSB.-	-	S005	12AXD-38	5		SLW-E3	HSJFS	76	121220 P06	005	
066	SPIRE SLW Ch17-20 . 17-	SSB.-	-	S005	12AXD-38	5			HSJFS	76	121220 P06	018	
122	SPIRE SLW Ch17-20 . 17gnd	SSB.-	-	S005	12AXD-38	5		Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
067	SPIRE SLW Ch17-20 . 18+	SSB.-	-	S005	12AXD-38	5		SLW-C4	HSJFS	76	121220 P06	006	
078	SPIRE SLW Ch17-20 . 18-	SSB.-	-	S005	12AXD-38	5			HSJFS	76	121220 P06	019	
122	SPIRE SLW Ch17-20 . 18gnd	SSB.-	-	S005	12AXD-38	5		12AX gnd daisy ch to Pin 122 at CVV side (A2)	HSJFS	76	121220 P06	013	
076	SPIRE SLW Ch17-20 . 19+	SSB.-	-	S005	12AXD-38	5		SLW-DK2	HSJFS	76	121220 P06	020	
077	SPIRE SLW Ch17-20 . 19-	SSB.-	-	S005	12AXD-38	5			HSJFS	76	121220 P06	007	
122	SPIRE SLW Ch17-20 . 19gnd	SSB.-	-	S005	12AXD-38	5		Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
088	SPIRE SLW Ch17-20 . 20+	SSB.-	-	S005	12AXD-38	5		SLW-D4	HSJFS	76	121220 P06	021	
089	SPIRE SLW Ch17-20 . 20-	SSB.-	-	S005	12AXD-38	5			HSJFS	76	121220 P06	008	
122	SPIRE SLW Ch17-20 . 20gnd	SSB.-	-	S005	12AXD-38	5		Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
122	SPIRE SLW Ch17-20 . SHD02	SSB.-	-	S005	12AXD-38	5		Cable S005 inner Shd daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
-	Cable S005 12 AXD Outer Shield							Cable S005 outer Shd con to Busbar (Faraday)					
099	SPIRE SLW Ch21-24 . 21+	SSB.-	-	S006	12AXD-38	6		SLW-C5	HSJFS	76	121220 P06	022	
100	SPIRE SLW Ch21-24 . 21-	SSB.-	-	S006	12AXD-38	6			HSJFS	76	121220 P06	009	

# Pin Allocation List (Harness)

Connector: 211121 J32

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVV I/F CB Top PFM (CWUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
122	SPIRE SLW Ch21-24 . 21gnd	SSB.-	-	-	S006	12AXD-38	6				Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
110	SPIRE SLW Ch21-24 . 22+	SSB.-	-	-	S006	12AXD-38	6				SLW-B4	HSJFS	76	121220 P06	023	
111	SPIRE SLW Ch21-24 . 22-	SSB.-	-	-	S006	12AXD-38	6					HSJFS	76	121220 P06	010	
122	SPIRE SLW Ch21-24 . 22gnd	SSB.-	-	-	S006	12AXD-38	6				Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
118	SPIRE SLW Ch21-24 . 23+	SSB.-	-	-	S006	12AXD-38	6				SLW-A3	HSJFS	76	121220 P06	024	
119	SPIRE SLW Ch21-24 . 23-	SSB.-	-	-	S006	12AXD-38	6					HSJFS	76	121220 P06	011	
122	SPIRE SLW Ch21-24 . 23gnd	SSB.-	-	-	S006	12AXD-38	6				Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
112	SPIRE SLW Ch21-24 . 24+	SSB.-	-	-	S006	12AXD-38	6				SLW-T2	HSJFS	76	121220 P06	025	
120	SPIRE SLW Ch21-24 . 24-	SSB.-	-	-	S006	12AXD-38	6					HSJFS	76	121220 P06	012	
122	SPIRE SLW Ch21-24 . 24gnd	SSB.-	-	-	S006	12AXD-38	6				Daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
122	SPIRE SLW Ch21-24 . SHD03	SSB.-	-	-	S006	12AXD-38	6				Cable S006 inner Shd daisy ch to Pin 122 (A2)	HSJFS	76	121220 P06	013	
-	Cable S006 12 AXD Outer Shield										Cable S006 outer Shd con to Busbar (Faraday)					
007	SPIRE PTC TC Bias A . +ve	S3A.-	-	-	S009	022BS-38	9					HSJFS	76	121220 P09	001	
014	SPIRE PTC TC Bias A . -ve	S3A.-	-	-	S009	022BS-38	9					HSJFS	76	121220 P09	020	
046	SPIRE PTC TC Bias A . SHD01	S3A.-	-	-	S009	022BS-38	9				Cable S009 inner Shd daisy ch to Pin 46 at CVV side (A3)	HSJFS	76	121220 P09	002	
-	Cable S009 outer Shield										Cable S009 outer Shd con to Busbar (Faraday)					
046	SPIRE PTC GND WIRE A3 . GND A3	SSX.-	-	-	S403	010B0-30					Gnd Wire A3 con to Cable 09 + 10 Shd	HSJFS	76	121220 P09	002	
024	SPIRE PTC JFETV Bias A . +ve	S3C.-	-	-	S010	022BS-38	10					HSJFS	76	121220 P09	021	
035	SPIRE PTC JFETV Bias A . -ve	S3C.-	-	-	S010	022BS-38	10					HSJFS	76	121220 P09	003	
046	SPIRE PTC JFETV Bias A . SHD02	S3C.-	-	-	S010	022BS-38	10				Cable S010 inner Shd daisy ch to Pin 046 at CVV side (A3)	HSJFS	76	121220 P09	002	
-	Cable S010 outer Shield										Cable S010 outer Shd con to Busbar (Faraday)					
121	SPIRE SLW Bias A1 . +ve	SSD.-	-	-	S025	022SS-38	25					HSJFS	76	121220 P09	022	
114	SPIRE SLW Bias A1 . -ve	SSD.-	-	-	S025	022SS-38	25					HSJFS	76	121220 P09	004	

# Pin Allocation List (Harness)

Connector: 211121 J32

Item: CWWUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVV I/F CB Top PFM (CWWUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
104	SPIRE SLW Bias A1 . SHD03	SSD.- -	S025	022SS-38	25				Cable S025 inner Shd daisy ch to Pin 104 at CVV side (B3)	HSJFS	76	121220 P09	006	
-	Cable S025 outer Shield								Cable S025 outer Shd con to Busbar (Faraday)					
102	SPIRE SLW Bias A2 . +ve	SSD.- -	S026	022SS-38	26					HSJFS	76	121220 P09	005	
101	SPIRE SLW Bias A2 . -ve	SSD.- -	S026	022SS-38	26					HSJFS	76	121220 P09	024	
104	SPIRE SLW Bias A2 . SHD04	SSD.- -	S026	022SS-38	26				Cable S026 inner Shd daisy ch to Pin 104 at CVV side (B3)	HSJFS	76	121220 P09	023	
-	Cable S026 outer Shield								Cable S026 outer Shd con to Busbar (Faraday)					
104	SPIRE SLW GND WIRE B3	SSX.- -	S405	010B0-30					SLW GND Wire B3 con to cable 25,26,11,12 Shd	HSJFS	76	121220 P09	006	
092	SPIRE SLW JFETV A1 . +ve	SSF.- -	S011	022BS-38	11					HSJFS	76	121220 P09	025	
091	SPIRE SLW JFETV A1 . -ve	SSF.- -	S011	022BS-38	11					HSJFS	76	121220 P09	007	
104	SPIRE SLW JFETV A1 . SHD05	SSF.- -	S011	022BS-38	11				Cable S011 inner Shd daisy ch to Pin 104 at CVV side (B3)	HSJFS	76	121220 P09	006	
-	Cable S011 outer Shield								Cable S011 outer Shd con to Busbar (Faraday)					
103	SPIRE SLW JFETV A2 . +ve	SSF.- -	S012	022BS-38	12					HSJFS	76	121220 P09	008	
113	SPIRE SLW JFETV A2 . -ve	SSF.- -	S012	022BS-38	12					HSJFS	76	121220 P09	027	
104	SPIRE SLW JFETV A2 . SHD06	SSF.- -	S012	022BS-38	12				Cable S012 inner Shd daisy ch to Pin 104 at CVV side (B3)	HSJFS	76	121220 P09	026	
-	Cable S012 outer Shield								Cable S012 outer Shd con to Busbar (Faraday)					
090	SPIRE SSW Bias A1 . +ve	SSC.- -	S029	022SS-38	29					HSJFS	76	121220 P09	028	
079	SPIRE SSW Bias A1 . -ve	SSC.- -	S029	022SS-38	29					HSJFS	76	121220 P09	010	
093	SPIRE SSW Bias A1 . SHD07	SSC.- -	S029	022SS-38	29				Cable S029 inner Shd daisy ch to Pin 093 at CVV side (C3)	HSJFS	76	121220 P09	009	
-	Cable S029 outer Shield								Cable S029 outer Shd con to Busbar (Faraday)					
068	SPIRE SSW JFETV A1 . +ve	SSE.- -	S016	022BS-38	16					HSJFS	76	121220 P09	011	
057	SPIRE SSW JFETV A1 . -ve	SSE.- -	S016	022BS-38	16					HSJFS	76	121220 P09	030	

**Pin Allocation List**  
(Harness)**Connector:** 211121 J32**Item:** CVUUCR**EMC-Category:** 2C/Sig H in Cryostat**Function:** UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)**Conn.-Type:** 197-011P24-35P (Junct.)**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
093	SPIRE SSW JFETV A1 . SHD08	SSE.-	-	S016	022BS-38	16		Cable S016 inner Shd daisy ch to Pin 093 at CVV side (C3)	HSJFS	76	121220 P09	029	
-	Cable S016 outer Shield							Cable S016 outer Shd con to Busbar (Faraday)					
093	SPIRE SSW GND Wire C3	SSX.-	-	S406	010B0-30			GND Wire C3 con to Cable 29,16,3117 Shd	HSJFS	76	121220 P09	012	
069	SPIRE SSW Bias A2 . +ve	SSC.-	-	S031	022SS-38	31			HSJFS	76	121220 P09	013	
080	SPIRE SSW Bias A2 . -ve	SSC.-	-	S031	022SS-38	31			HSJFS	76	121220 P09	032	
093	SPIRE SSW Bias A2 . SHD09	SSC.-	-	S031	022SS-38	31		Cable S031 inner Shd daisy ch to Pin 093 at CVV side (C3)	HSJFS	76	121220 P09	031	
-	Cable S031 outer Shield							Cable S031 outer Shd con to Busbar (Faraday)					
070	SPIRE SSW JFETV A2 . +ve	SSE.-	-	S017	022BS-38	17			HSJFS	76	121220 P09	033	
081	SPIRE SSW JFETV A2 . -ve	SSE.-	-	S017	022BS-38	17			HSJFS	76	121220 P09	015	
093	SPIRE SSW JFETV A2 . SHD10	SSE.-	-	S017	022BS-38	17		Cable S017 inner Shd daisy ch to Pin 093 at CVV side (C3)	HSJFS	76	121220 P09	014	
-	Cable S017 outer Shield							Cable S017 outer Shd con to Busbar (Faraday)					
022	SPIRE S_Heater GND D3	SSX.-	-	S410	010B0-30			GND Wire D3 con to Cable 33,34,19Shd	HSJFS	76	121220 P09	18	
023	SPIRE SLW JFET Htr A . +ve	SSH.-	-	S033	021BS-38	33			HSJFS	76	121220 P09	017	
034	SPIRE SLW JFET Htr A . -ve	SSH.-	-	S033	021BS-38	33			HSJFS	76	121220 P09	036	
022	SPIRE SLW JFET Htr A . SHD13	SSH.-	-	S033	021BS-38	33		Cable S033 Shd daisy ch to Cable 034 Shd = GND wire D3	HSJFS	76	121220 P09	018	
033	SPIRE SSW JFET Htr A . +ve	SSG.-	-	S034	021BS-38	34			HSJFS	76	121220 P09	037	
045	SPIRE SSW JFET Htr A . -ve	SSG.-	-	S034	021BS-38	34			HSJFS	76	121220 P09	019	
022	SPIRE SSW JFET Htr A . SHD12	SSG.-	-	S034	021BS-38	34		Cable S034 Shd daisy ch to Cable 033	HSJFS	76	121220 P09	018	
044	SPIRE PTC JFET Htr A . +ve	S3B.-	-	S019	021BS-38	19			HSJFS	76	121220 P09	016	
056	SPIRE PTC JFET Htr A . -ve	S3B.-	-	S019	021BS-38	19			HSJFS	76	121220 P09	035	
022	SPIRE PTC JFET Htr A . SHD11	S3B.-	-	S019	021BS-38	19		Cable S019 Shd daisy ch to Gnd Wire D3	HSJFS	76	121220 P09	NC	

# Pin Allocation List (Harness)

**Connector:** 211121 J32  
**Item:** CWUJCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)  
**Location:** 33 / CW / I/F CB Top PFM (CWUJCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
-	P09 Outer Shds = Faraday Shds										All P09 outer Shds = Faraday Shd con to Busbar					
001	SPIRE PTC TC Bias B . +ve	S3A-	-		S020	022BS-38	20					HSJFS	76	121220 P10	001	
008	SPIRE PTC TC Bias B . -ve	S3A-	-		S020	022BS-38	20					HSJFS	76	121220 P10	020	
004	SPIRE PTC TC Bias B . SHD01	S3A-	-		S020	022BS-38	20				Cable S020 inner Shd daisy ch to Gnd Wire A4	HSJFS	76	121220 P10	002	
-	Cable S020 outer Shield										Cable S020 outer Shd con to Busbar (Faraday)					
004	SPIRE PTC GND Wire A4	SSX-	-		S404	010B0-30					GND Wire A4 con Cable 21, 22 Shd	HSJFS	76	121220 P10	002	
003	SPIRE PTC JFETV Bias B . +ve	S3C-	-		S022	022BS-38	22					HSJFS	76	121220 P10	021	
002	SPIRE PTC JFETV Bias B . -ve	S3C-	-		S022	022BS-38	22					HSJFS	76	121220 P10	003	
004	SPIRE PTC JFETV Bias B . SHD02	S3C-	-		S022	022BS-38	22				Cable S022 inner Shd daisy ch to Gnd Wire A4	HSJFS	76	121220 P10	002	
-	Cable S022 outer Shield										Cable S022 outer Shd con to Busbar (Faraday)					
013	SPIRE SLW Bias B1 . +ve	SSD-	-		S038	022SS-38	38					HSJFS	76	121220 P10	022	
012	SPIRE SLW Bias B1 . -ve	SSD-	-		S038	022SS-38	38					HSJFS	76	121220 P10	004	
032	SPIRE SLW Bias B1 . SHD03	SSD-	-		S038	022SS-38	38				Cable S038 inner Shd daisy ch to Gnd Wire B4	HSJFS	76	121220 P10	006	
-	Cable S038 outer Shield										Cable S038 outer Shd con to Busbar (Faraday)					
021	SPIRE SLW Bias B2 . +ve	SSD-	-		S039	022SS-38	39					HSJFS	76	121220 P10	005	
020	SPIRE SLW Bias B2 . -ve	SSD-	-		S039	022SS-38	39					HSJFS	76	121220 P10	024	
032	SPIRE SLW Bias B2 . SHD04	SSD-	-		S039	022SS-38	39				Cable S039 inner Shd daisy ch to Gnd Wire B4	HSJFS	76	121220 P10	023	
-	Cable S039 outer Shield										Cable S039 outer Shd con to Busbar (Faraday)					
032	SPIRE SLW GND Wire B4	SSX-	-		S407	010B0-30					Gnd Wire B4 con to Cable 23,28,38,39 Shd	HSJFS	76	121220 P10	006	
031	SPIRE SLW JFETV B1 . +ve	SSF-	-		S028	022BS-38	28					HSJFS	76	121220 P10	025	
043	SPIRE SLW JFETV B1 . -ve	SSF-	-		S028	022BS-38	28					HSJFS	76	121220 P10	007	

# Pin Allocation List (Harness)

**Connector:** 211121 J32

**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
032	SPIRE SLW JFETV B1 . SHD05	SSF.-	-	S028	022BS-38	28		Cable S028 inner Shd daisy ch to Gnd Wire B4	HSJFS	76	121220 P10	006	
-	Cable S028 outer Shield							Cable S028 outer Shd con to Busbar (Faraday)					
042	SPIRE SLW JFETV B2 . +ve	SSF.-	-	S023	022BS-38	23		Cable S023 inner Shd daisy ch to Gnd Wire B4	HSJFS	76	121220 P10	008	
054	SPIRE SLW JFETV B2 . -ve	SSF.-	-	S023	022BS-38	23			HSJFS	76	121220 P10	027	
032	SPIRE SLW JFETV B2 . SHD06	SSF.-	-	S023	022BS-38	23			HSJFS	76	121220 P10	006	
-	Cable S023 outer Shield							Cable S023 outer Shd con to Busbar (Faraday)					
010	SPIRE SSW Bias B1 . +ve	SSC.-	-	S042	022SS-38	42		Cable S042 inner Shd daisy ch to Gnd Wire C4	HSJFS	76	121220 P10	028	
011	SPIRE SSW Bias B1 . -ve	SSC.-	-	S042	022SS-38	42			HSJFS	76	121220 P10	010	
040	SPIRE SSW Bias B1 . SHD07	SSC.-	-	S042	022SS-38	42			HSJFS	76	121220 P10	009	
-	Cable S042 outer Shield							Cable S042 outer Shd con to Busbar (Faraday)					
019	SPIRE SSW JFETV B1 . +ve	SSE.-	-	S035	022BS-38	35		Cable S035 inner Shd daisy ch to Gnd Wire C4	HSJFS	76	121220 P10	011	
029	SPIRE SSW JFETV B1 . -ve	SSE.-	-	S035	022BS-38	35			HSJFS	76	121220 P10	030	
040	SPIRE SSW JFETV B1 . SHD08	SSE.-	-	S035	022BS-38	35			HSJFS	76	121220 P10	029	
-	Cable S035 outer Shield							Cable S035 inner Shd daisy ch to Gnd Wire C4					
040	SPIRE SSW GND Wire C4	SSX.-	-	S408	010B0-30			GND Wire C4 con to Cable 35,36,42,44 Shd	HSJFS	76	121220 P10	012	
041	SPIRE SSW Bias B2 . +ve	SSC.-	-	S044	022SS-38	44		Cable S044 inner Shd daisy ch to Gnd Wire C4	HSJFS	76	121220 P10	013	
030	SPIRE SSW Bias B2 . -ve	SSC.-	-	S044	022SS-38	44			HSJFS	76	121220 P10	032	
040	SPIRE SSW Bias B2 . SHD09	SSC.-	-	S044	022SS-38	44			HSJFS	76	121220 P10	031	
-	Cable S044 outer Shield							Cable S044 outer Shd con to Busbar (Faraday)					
053	SPIRE SSW JFETV B2 . +ve	SSE.-	-	S036	022BS-38	36		Cable S036 inner Shd daisy ch to Gnd Wire C4	HSJFS	76	121220 P10	033	
052	SPIRE SSW JFETV B2 . -ve	SSE.-	-	S036	022BS-38	36			HSJFS	76	121220 P10	015	
040	SPIRE SSW JFETV B2 . SHD10	SSE.-	-	S036	022BS-38	36			HSJFS	76	121220 P10	014	

# Pin Allocation List

(Harness)

**Connector:** 211121 J32  
**Item:** CWUJCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)  
**Location:** 33 / CWV / IF CB Top PFM (CWUJCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
-	Cable S036 outer Shield											
039	SPIRE S_Heater GND D4	SSX.- -	S409	010B0-30			Cable S036 outer Shd con to Busbar (Faraday)	HSJFS	76	121220 P10	018	
018	SPIRE SLW JFET Htr B . +ve	SSH.- -	S046	021BS-38	46			HSJFS	76	121220 P10	017	
028	SPIRE SLW JFET Htr B . -ve	SSH.- -	S046	021BS-38	46			HSJFS	76	121220 P10	036	
039	SPIRE SLW JFET Htr B . SHD13	SSH.- -	S046	021BS-38	46		Cable S046 Shd daisy ch to Gnd Wire D4	HSJFS	76	121220 P10	018	
009	SPIRE SSW JFET Htr B . +ve	SSG.- -	S047	021BS-38	47			HSJFS	76	121220 P10	037	
017	SPIRE SSW JFET Htr B . -ve	SSG.- -	S047	021BS-38	47			HSJFS	76	121220 P10	019	
039	SPIRE SSW JFET Htr B . SHD12	SSG.- -	S047	021BS-38	47		Cable S047 Shd daisy ch to Gnd Wire D4	HSJFS	76	121220 P10	018	
016	SPIRE PTC JFET Htr B . +ve	S3B.- -	S040	021BS-38	40			HSJFS	76	121220 P10	016	
027	SPIRE PTC JFET Htr B . -ve	S3B.- -	S040	021BS-38	40			HSJFS	76	121220 P10	035	
039	SPIRE PTC JFET Htr B . SHD11	SHD S3B.- -	S040	021BS-38	40		Cable S040 Shd daisy ch to Gnd Wire D4	HSJFS	76	121220 P10	NC	
-	P 10 Outer Shds = Faraday Shds						All P10 outer Shds = Faraday Shd con to Busbar					
005	Faraday Pins						Connected to Busbar					
006	Faraday Pins						Connected to Busbar					
015	Faraday Pins						Connected to Busbar					
022	Faraday Pins						Connected to Busbar					
025	Faraday Pins						Connected to Busbar					
036	Faraday Pins						Connected to Busbar					
039	Faraday Pins						Connected to Busbar					
047	Faraday Pins						Connected to Busbar					
058	Faraday Pins						Connected to Busbar					
082	Faraday Pins						Connected to Busbar					
094	Faraday Pins						Connected to Busbar					
105	Faraday Pins						Connected to Busbar					
123	Faraday Pins						Connected to Busbar					
124	Faraday Pins						Connected to Busbar					



Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-10 (of 10)

Connector: 211121 J32

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
125	Faraday Pins							Conected to Busbar					
126	Faraday Pins							Conected to Busbar					
127	Faraday Pins							Conected to Busbar					
128	Faraday Pins							Conected to Busbar					
-	CH							CH isolated from Faraday Shd					
-	Connector Housing							No Overall Shd at Junction Side					
-								Bundles isolated from S/C Structure					



# Pin Allocation List (Harness)

Connector: 211121 J31

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
047	SPIRE B02 GND Wire A1	SSX	-	S421	010B0-30			Con to Cable from P01 GND/Shds	HSJFS	76	121220 P01	013	
090	SPIRE SSW Ch01-04 . 1+	SSA	-	S051	12AXD-38	1		SSW-R1	HSJFS	76	121220 P01	001	
079	SPIRE SSW Ch01-04 . 1-	SSA	-	S051	12AXD-38	1			HSJFS	76	121220 P01	014	
047	SPIRE SSW Ch01-04 . 1gnd	SSA	-	S051	12AXD-38	1		Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
102	SPIRE SSW Ch01-04 . 2+	SSA	-	S051	12AXD-38	1		SSW-A4	HSJFS	76	121220 P01	002	
101	SPIRE SSW Ch01-04 . 2-	SSA	-	S051	12AXD-38	1			HSJFS	76	121220 P01	015	
047	SPIRE SSW Ch01-04 . 2gnd	SSA	-	S051	12AXD-38	1		Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
092	SPIRE SSW Ch01-04 . 3+	SSA	-	S051	12AXD-38	1		SSW-A3	HSJFS	76	121220 P01	003	
091	SPIRE SSW Ch01-04 . 3-	SSA	-	S051	12AXD-38	1			HSJFS	76	121220 P01	016	
047	SPIRE SSW Ch01-04 . 3gnd	SSA	-	S051	12AXD-38	1		Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
103	SPIRE SSW Ch01-04 . 4+	SSA	-	S051	12AXD-38	1		SSW-A2	HSJFS	76	121220 P01	004	
113	SPIRE SSW Ch01-04 . 4-	SSA	-	S051	12AXD-38	1			HSJFS	76	121220 P01	017	
047	SPIRE SSW Ch01-04 . 4gnd	SSA	-	S051	12AXD-38	1		Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
047	SPIRE SSW Ch01-04 . SHD01	SSA	-	S051	12AXD-38	1		Cable S051 inner Shd daisy ch to Pin 47 (A1)	HSJFS	76	121220 P01	013	
-	Cable S051 12AXD Outer Shield							Cable S051 outer Shd con to Busbar (Faraday)					
058	SPIRE SSW Ch05-08 . 5+	SSA	-	S052	12AXD-38	2		SSW-A1	HSJFS	76	121220 P01	005	
046	SPIRE SSW Ch05-08 . 5-	SSA	-	S052	12AXD-38	2			HSJFS	76	121220 P01	018	
047	SPIRE SSW Ch05-08 . 5gnd	SSA	-	S052	12AXD-38	2		Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
068	SPIRE SSW Ch05-08 . 6+	SSA	-	S052	12AXD-38	2		SSW-DK1	HSJFS	76	121220 P01	006	
057	SPIRE SSW Ch05-08 . 6-	SSA	-	S052	12AXD-38	2			HSJFS	76	121220 P01	019	
047	SPIRE SSW Ch05-08 . 6gnd	SSA	-	S052	12AXD-38	2		Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
069	SPIRE SSW Ch05-08 . 7+	SSA	-	S052	12AXD-38	2		SSW-B3	HSJFS	76	121220 P01	020	
080	SPIRE SSW Ch05-08 . 7-	SSA	-	S052	12AXD-38	2			HSJFS	76	121220 P01	007	
047	SPIRE SSW Ch05-08 . 7gnd	SSA	-	S052	12AXD-38	2		Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
070	SPIRE SSW Ch05-08 . 8+	SSA	-	S052	12AXD-38	2		SSW-B2	HSJFS	76	121220 P01	021	
081	SPIRE SSW Ch05-08 . 8-	SSA	-	S052	12AXD-38	2			HSJFS	76	121220 P01	008	
047	SPIRE SSW Ch05-08 . 8gnd	SSA	-	S052	12AXD-38	2		Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	

# Pin Allocation List (Harness)

**Connector:** 211121 J31  
**Item:** CUVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
047	SPIRE SSW Ch05-08 . SHD02	SSA-	-	-	S052	12AXD-38	2				Cable S052 inner Shd daisy ch to Pin 47 (A1)	HSJFS	76	121220 P01	013	
-	Cable S052 12 AXD Outer Shield										Cable S052 outer Shd con to Busbar (Faraday)					
023	SPIRE SSW Ch09-12 . 9+	SSA-	-	-	S054	12AXD-38	3				SSW-B1	HSJFS	76	121220 P01	022	
034	SPIRE SSW Ch09-12 . 9-	SSA-	-	-	S054	12AXD-38	3					HSJFS	76	121220 P01	009	
047	SPIRE SSW Ch09-12 . 9gnd	SSA-	-	-	S054	12AXD-38	3				Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
033	SPIRE SSW Ch09-12 . 10+	SSA-	-	-	S054	12AXD-38	3				SSW-C3	HSJFS	76	121220 P01	023	
045	SPIRE SSW Ch09-12 . 10-	SSA-	-	-	S054	12AXD-38	3					HSJFS	76	121220 P01	010	
047	SPIRE SSW Ch09-12 . 10gnd	SSA-	-	-	S054	12AXD-38	3				Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
044	SPIRE SSW Ch09-12 . 11+	SSA-	-	-	S054	12AXD-38	3				SSW-C2	HSJFS	76	121220 P01	024	
056	SPIRE SSW Ch09-12 . 11-	SSA-	-	-	S054	12AXD-38	3					HSJFS	76	121220 P01	011	
047	SPIRE SSW Ch09-12 . 11gnd	SSA-	-	-	S054	12AXD-38	3				Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
022	SPIRE SSW Ch09-12 . 12+	SSA-	-	-	S054	12AXD-38	3				SSW-C1	HSJFS	76	121220 P01	025	
032	SPIRE SSW Ch09-12 . 12-	SSA-	-	-	S054	12AXD-38	3					HSJFS	76	121220 P01	012	
047	SPIRE SSW Ch09-12 . 12gnd	SSA-	-	-	S054	12AXD-38	3				Daisy ch to Pin 047 (A1)	HSJFS	76	121220 P01	013	
047	SPIRE SSW Ch09-12 . SHD03	SSA-	-	-	S054	12AXD-38	3				Cable S054 inner Shd daisy ch to Pin 47 (A1)	HSJFS	76	121220 P01	013	
-	Cable S054 12 AXD Outer Shield										Cable S054 outer Shd con to Busbar (Faraday)					
128	SPIRE B02 GND Wire A2	SSX-	-	-	S422	010B0-30					Con to Cable from P02 GND/Sheds	HSJFS	76	121220 P02	13	
086	SPIRE SSW Ch13-16 . 13+	SSA-	-	-	S055	12AXD-38	4				SSW-D3	HSJFS	76	121220 P02	001	
087	SPIRE SSW Ch13-16 . 13-	SSA-	-	-	S055	12AXD-38	4					HSJFS	76	121220 P02	014	
128	SPIRE SSW Ch13-16 . 13gnd	SSA-	-	-	S055	12AXD-38	4				Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	013	
097	SPIRE SSW Ch13-16 . 14+	SSA-	-	-	S055	12AXD-38	4				SSW-D2	HSJFS	76	121220 P02	002	
098	SPIRE SSW Ch13-16 . 14-	SSA-	-	-	S055	12AXD-38	4					HSJFS	76	121220 P02	015	
128	SPIRE SSW Ch13-16 . 14gnd	SSA-	-	-	S055	12AXD-38	4				Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	013	

# Pin Allocation List (Harness)

Connector: 211121 J31  
Item: CVWUCR

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

EMC-Category: 2C/Sig H in Cryostat

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
108	SPIRE SSW Ch13-16 . 15+	SSA-	-	S055	12AXD-38	4		4	SSW-D1	HSJFS	76	121220 P02	003	
109	SPIRE SSW Ch13-16 . 15-	SSA-	-	S055	12AXD-38	4		4	Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	016	
128	SPIRE SSW Ch13-16 . 15grnd	SSA-	-	S055	12AXD-38	4		4		HSJFS	76	121220 P02	013	
116	SPIRE SSW Ch13-16 . 16+	SSA-	-	S055	12AXD-38	4		4	SSW-E3	HSJFS	76	121220 P02	004	
117	SPIRE SSW Ch13-16 . 16-	SSA-	-	S055	12AXD-38	4		4	Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	017	
128	SPIRE SSW Ch13-16 . 16grnd	SSA-	-	S055	12AXD-38	4		4	Cable S055 Shd daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	013	
128	SPIRE SSW Ch13-16 . SHD01	SSA-	-	S055	12AXD-38	4		4		HSJFS	76	121220 P02	013	
-	S056 12 AXD Outer Shield													
055	SPIRE SSW Ch17-20 . 17+	SSA-	-	S056	12AXD-38	5		5	SSW-E2	HSJFS	76	121220 P02	005	
066	SPIRE SSW Ch17-20 . 17-	SSA-	-	S056	12AXD-38	5		5	Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	018	
128	SPIRE SSW Ch17-20 . 17grnd	SSA-	-	S056	12AXD-38	5		5		HSJFS	76	121220 P02	013	
067	SPIRE SSW Ch17-20 . 18+	SSA-	-	S056	12AXD-38	5		5	SSW-E1	HSJFS	76	121220 P02	006	
078	SPIRE SSW Ch17-20 . 18-	SSA-	-	S056	12AXD-38	5		5	Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	019	
128	SPIRE SSW Ch17-20 . 18grnd	SSA-	-	S056	12AXD-38	5		5		HSJFS	76	121220 P02	013	
076	SPIRE SSW Ch17-20 . 19+	SSA-	-	S056	12AXD-38	5		5	SSW-F3	HSJFS	76	121220 P02	020	
077	SPIRE SSW Ch17-20 . 19-	SSA-	-	S056	12AXD-38	5		5	Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	007	
128	SPIRE SSW Ch17-20 . 19grnd	SSA-	-	S056	12AXD-38	5		5		HSJFS	76	121220 P02	013	
088	SPIRE SSW Ch17-20 . 20+	SSA-	-	S056	12AXD-38	5		5	SSW-F2	HSJFS	76	121220 P02	021	
089	SPIRE SSW Ch17-20 . 20-	SSA-	-	S056	12AXD-38	5		5	Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	008	
128	SPIRE SSW Ch17-20 . 20grnd	SSA-	-	S056	12AXD-38	5		5	Cable S056 inner Shd daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	013	
128	SPIRE SSW Ch17-20 . SHD02	SSA-	-	S056	12AXD-38	5		5	Cable S056 outer Shd con to Busbar (Faraday)	HSJFS	76	121220 P02	013	
-	Cable S055 12 AXD Outer Shield													
099	SPIRE SSW Ch21-24 . 21+	SSA-	-	S058	12AXD-38	6		6	SSW-F1	HSJFS	76	121220 P02	022	
100	SPIRE SSW Ch21-24 . 21-	SSA-	-	S058	12AXD-38	6		6	Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	009	
128	SPIRE SSW Ch21-24 . 21grnd	SSA-	-	S058	12AXD-38	6		6		HSJFS	76	121220 P02	013	
110	SPIRE SSW Ch21-24 . 22+	SSA-	-	S058	12AXD-38	6		6	SSW-G1	HSJFS	76	121220 P02	023	
111	SPIRE SSW Ch21-24 . 22-	SSA-	-	S058	12AXD-38	6		6		HSJFS	76	121220 P02	010	

# Pin Allocation List (Harness)

Project: **HERSCHEL**

Connector: 211121 J31

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
128	SPIRE SSW Ch21-24 . 22gnd	SSA-	-	S058	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	013	
118	SPIRE SSW Ch21-24 . 23+	SSA-	-	S058	12AXD-38	6		SSW-T1	HSJFS	76	121220 P02	024	
119	SPIRE SSW Ch21-24 . 23-	SSA-	-	S058	12AXD-38	6			HSJFS	76	121220 P02	011	
128	SPIRE SSW Ch21-24 . 23gnd	SSA-	-	S058	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	013	
112	SPIRE SSW Ch21-24 . 24+	SSA-	-	S058	12AXD-38	6		SSW-G2	HSJFS	76	121220 P02	025	
120	SPIRE SSW Ch21-24 . 24-	SSA-	-	S058	12AXD-38	6			HSJFS	76	121220 P02	012	
128	SPIRE SSW Ch21-24 . 24gnd	SSA-	-	S058	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFS	76	121220 P02	013	
128	SPIRE SSW Ch21-24 . SHD03	SSA-	-	S058	12AXD-38	6		Cable S058 inner Shd daisy ch to Pin 128 at CVV side (A2)	HSJFS	76	121220 P02	013	
-	Cable S058 12 AXD Outer Shield							Cable S058 outer Shd con to Busbar (Faraday)					
005	SPIRE B02 GND Wire A4	SSX-	-	S424	010B0-30			Con to Cable from P4 GND/Shd	HSJFS	76	121220 P04	013	
013	SPIRE SSW Ch25-28 . 25+	SSA-	-	S059	12AXD-38	7		SSW-E5	HSJFS	76	121220 P04	001	
012	SPIRE SSW Ch25-28 . 25-	SSA-	-	S059	12AXD-38	7			HSJFS	76	121220 P04	014	
005	SPIRE SSW Ch25-28 . 25gnd	SSA-	-	S059	12AXD-38	7		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	013	
021	SPIRE SSW Ch25-28 . 26+	SSA-	-	S059	12AXD-38	7		SSW-E4	HSJFS	76	121220 P04	002	
020	SPIRE SSW Ch25-28 . 26-	SSA-	-	S059	12AXD-38	7			HSJFS	76	121220 P04	015	
005	SPIRE SSW Ch25-28 . 26gnd	SSA-	-	S059	12AXD-38	7		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	013	
031	SPIRE SSW Ch25-28 . 27+	SSA-	-	S059	12AXD-38	7		SSW-D7	HSJFS	76	121220 P04	003	
043	SPIRE SSW Ch25-28 . 27-	SSA-	-	S059	12AXD-38	7			HSJFS	76	121220 P04	016	
005	SPIRE SSW Ch25-28 . 27gnd	SSA-	-	S059	12AXD-38	7		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	013	
042	SPIRE SSW Ch25-28 . 28+	SSA-	-	S059	12AXD-38	7		SSW-D6	HSJFS	76	121220 P04	004	
054	SPIRE SSW Ch25-28 . 28-	SSA-	-	S059	12AXD-38	7			HSJFS	76	121220 P04	017	
005	SPIRE SSW Ch25-28 . 28gnd	SSA-	-	S059	12AXD-38	7		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	013	
005	SPIRE SSW Ch25-28 . SHD01	SSA-	-	S059	12AXD-38	7		Cable S059 inner Shd daisy ch to Pin 05 (A4)	HSJFS	76	121220 P04	013	
-	Cable S059 12 AXD Outer Shield							Cable S059 outer Shd con to Busbar (Faraday)					

# Pin Allocation List (Harness)

Connector: 211121 J31  
Item: CVWUCR  
EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
010	SPIRE SSW Ch29-32 . 29+	SSA-	-	S060	12AXD-38	8		SSW-D5	HSJFS	76	121220 P04	005	
011	SPIRE SSW Ch29-32 . 29-	SSA-	-	S060	12AXD-38	8		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	018	
005	SPIRE SSW Ch29-32 . 29grnd	SSA-	-	S060	12AXD-38	8			HSJFS	76	121220 P04	013	
019	SPIRE SSW Ch29-32 . 30+	SSA-	-	S060	12AXD-38	8			SSW-D4	HSJFS	76	121220 P04	006
029	SPIRE SSW Ch29-32 . 30-	SSA-	-	S060	12AXD-38	8		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	019	
005	SPIRE SSW Ch29-32 . 30grnd	SSA-	-	S060	12AXD-38	8			HSJFS	76	121220 P04	013	
041	SPIRE SSW Ch29-32 . 31+	SSA-	-	S060	12AXD-38	8			SSW-C6	HSJFS	76	121220 P04	020
030	SPIRE SSW Ch29-32 . 31-	SSA-	-	S060	12AXD-38	8		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	007	
005	SPIRE SSW Ch29-32 . 31grnd	SSA-	-	S060	12AXD-38	8			HSJFS	76	121220 P04	013	
053	SPIRE SSW Ch29-32 . 32+	SSA-	-	S060	12AXD-38	8			SSW-C5	HSJFS	76	121220 P04	021
052	SPIRE SSW Ch29-32 . 32-	SSA-	-	S060	12AXD-38	8		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	008	
005	SPIRE SSW Ch29-32 . 32grnd	SSA-	-	S060	12AXD-38	8			HSJFS	76	121220 P04	013	
005	SPIRE SSW Ch29-32 . SHD02	SSA-	-	S060	12AXD-38	8			Cable S060 inner Shd daisy ch to Pin 05 (A4)	HSJFS	76	121220 P04	013
-	Cable S060 12 AXD Outer Shield							Cable S060 outer Shd con to Busbar (Faraday)					
009	SPIRE SSW Ch33-36 . 33+	SSA-	-	S062	12AXD-38	9		SSW-C4	HSJFS	76	121220 P04	022	
017	SPIRE SSW Ch33-36 . 33-	SSA-	-	S062	12AXD-38	9		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	009	
005	SPIRE SSW Ch33-36 . 33grnd	SSA-	-	S062	12AXD-38	9			HSJFS	76	121220 P04	013	
018	SPIRE SSW Ch33-36 . 34+	SSA-	-	S062	12AXD-38	9			SSW-B5	HSJFS	76	121220 P04	023
028	SPIRE SSW Ch33-36 . 34-	SSA-	-	S062	12AXD-38	9		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	010	
005	SPIRE SSW Ch33-36 . 34grnd	SSA-	-	S062	12AXD-38	9			HSJFS	76	121220 P04	013	
016	SPIRE SSW Ch33-36 . 35+	SSA-	-	S062	12AXD-38	9			SSW-B4	HSJFS	76	121220 P04	024
027	SPIRE SSW Ch33-36 . 35-	SSA-	-	S062	12AXD-38	9		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	011	
005	SPIRE SSW Ch33-36 . 35grnd	SSA-	-	S062	12AXD-38	9			HSJFS	76	121220 P04	013	
040	SPIRE SSW Ch33-36 . 36+	SSA-	-	S062	12AXD-38	9			SSW-T2	HSJFS	76	121220 P04	025
039	SPIRE SSW Ch33-36 . 36-	SSA-	-	S062	12AXD-38	9		Daisy ch to Pin 005 (A4)	HSJFS	76	121220 P04	012	
005	SPIRE SSW Ch33-36 . 36grnd	SSA-	-	S062	12AXD-38	9			HSJFS	76	121220 P04	013	
005	SPIRE SSW Ch33-36 . SHD03	SSA-	-	S062	12AXD-38	9			Cable S062 inner Shd daisy ch to Pin 05 (A4)	HSJFS	76	121220 P04	013

# Pin Allocation List (Harness)

**Connector:** 211121 J31  
**Item:** CVVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal	Pos.	Ch. ID	Wiring						
-	Cable S062 12 AXD Outer Shield						Cable S062 outer Shd con to Busbar (Faraday)					
036	SPIRE B02 GND Wire A3	SSX	-	-	S423	010B0-30	Con to Cable from P03 GND/Shds	HSJFS	76	121220 P03	013	
063	SPIRE SSW Spare1/2 . 1+	SSA	1	-	S247	121SS-38 11	Not continued at P side!!	HSJFS	76	121220 P03	005	
075	SPIRE SSW Spare1/2 . 1-	SSA	1	-	S247	121SS-38 11	Not continued at P side !!!	HSJFS	76	121220 P03	018	
036	SPIRE SSW Spare1/2 . 1gnd	SSA	1	-	S247	121SS-38 11	Cable Shd daisy ch to Pin 05 at CVV side (A4)	HSJFS	76	121220 P03	013	
074	SPIRE SSW Spare1/2 . 2+	SSA	1	-	S247	121SS-38 11	Not continued at P side!!	HSJFS	76	121220 P03	006	
073	SPIRE SSW Spare1/2 . 2-	SSA	1	-	S247	121SS-38 11	Not continued at P side !!!	HSJFS	76	121220 P03	019	
036	SPIRE SSW Spare1/2 . 2gnd	SSA	1	-	S247	121SS-38 11	Cable Shd daisy ch to Pin 05 at CVV side (A4)	HSJFS	76	121220 P03	013	
026	SPIRE SSW Ch37-40 . 37+	SSA	-	-	S063	12AXD-38 10	SSW-G3	HSJFS	76	121220 P03	020	
037	SPIRE SSW Ch37-40 . 37-	SSA	-	-	S063	12AXD-38 10		HSJFS	76	121220 P03	007	
036	SPIRE SSW Ch37-40 . 37gnd	SSA	-	-	S063	12AXD-38 10	Daisy ch to Pin 036 (A3)	HSJFS	76	121220 P03	013	
038	SPIRE SSW Ch37-40 . 38+	SSA	-	-	S063	12AXD-38 10	SSW-G4	HSJFS	76	121220 P03	021	
049	SPIRE SSW Ch37-40 . 38-	SSA	-	-	S063	12AXD-38 10		HSJFS	76	121220 P03	008	
036	SPIRE SSW Ch37-40 . 38gnd	SSA	-	-	S063	12AXD-38 10	Daisy ch to Pin 036 (A3)	HSJFS	76	121220 P03	013	
-	Cable S247/063 12AXD Outer Shield						Cable S247/063 Outer Shd con to Busbar (Faraday)					
048	SPIRE SSW Ch37-40 . 39+	SSA	-	-	S063	12AXD-38 10	SSW-DK2	HSJFS	76	121220 P03	022	
060	SPIRE SSW Ch37-40 . 39-	SSA	-	-	S063	12AXD-38 10		HSJFS	76	121220 P03	009	
036	SPIRE SSW Ch37-40 . 39gnd	SSA	-	-	S063	12AXD-38 10	Daisy ch to Pin 036 (A3)	HSJFS	76	121220 P03	013	
059	SPIRE SSW Ch37-40 . 40+	SSA	-	-	S063	12AXD-38 10	SSW-F5	HSJFS	76	121220 P03	023	
071	SPIRE SSW Ch37-40 . 40-	SSA	-	-	S063	12AXD-38 10		HSJFS	76	121220 P03	010	
036	SPIRE SSW Ch37-40 . 40gnd	SSA	-	-	S063	12AXD-38 10	Daisy ch to Pin 036 (A3)	HSJFS	76	121220 P03	013	
036	SPIRE SSW Ch37-40 . SHD01	SSA	-	-	S063	12AXD-38 10	Cable S063 Shd daisy ch to Pin 36 (A3)	HSJFS	76	121220 P03	013	



# Pin Allocation List (Harness)

Connector: 211121 J31  
Item: CVUUCR  
EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
Location: 33 / CVV I/F CB Top PFM (CWUUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
050	SPIRE SSW Ch41-42 . 41+	SSA.-	-	S064	12AXD-38	11		SSW-F4	HSJFS	76	121220 P03	024	
061	SPIRE SSW Ch41-42 . 41-	SSA.-	-	S064	12AXD-38	11		Daisy ch to Pin 036 (A3)	HSJFS	76	121220 P03	011	
036	SPIRE SSW Ch41-42 . 41gnd	SSA.-	-	S064	12AXD-38	11			HSJFS	76	121220 P03	013	
062	SPIRE SSW Ch41-42 . 42+	SSA.-	-	S064	12AXD-38	11		SSW-E6	HSJFS	76	121220 P03	025	
051	SPIRE SSW Ch41-42 . 42-	SSA.-	-	S064	12AXD-38	11		Daisy ch to Pin 036 (A3)	HSJFS	76	121220 P03	012	
036	SPIRE SSW Ch41-42 . 42gnd	SSA.-	-	S064	12AXD-38	11		Cable S063/064 inner Shd daisy ch to Pin 36 (A3)	HSJFS	76	121220 P03	013	
036	SPIRE SSW Ch41-42 . SHD02	SSA.-	-	S064	12AXD-38	10		Cable S063/064 outer Shd con to Busbar (Faraday)	HSJFS	76	121220 P03	013	
082	SPIRE B02 GND Wire A5	SSX.-	-	S425	010B0-30			Con to Cable from P07 GND/Shds	HSJFS	76	121220 P07	013	
095	SPIRE SSW PTC Ch's . 1+	S3D.-	-	S053	12AXD-38	13		PTC-1	HSJFS	76	121220 P07	005	
084	SPIRE SSW PTC Ch's . 1-	S3D.-	-	S053	12AXD-38	13		Daisy ch to Pin 082 (B5)	HSJFS	76	121220 P07	018	
082	SPIRE SSW PTC Ch's . 1gnd	S3D.-	-	S053	12AXD-38	13			HSJFS	76	121220 P07	013	
096	SPIRE SSW PTC Ch's . 2+	S3D.-	-	S053	12AXD-38	13		PTC-2	HSJFS	76	121220 P07	006	
085	SPIRE SSW PTC Ch's . 2-	S3D.-	-	S053	12AXD-38	13		Daisy ch to Pin 082 (B5)	HSJFS	76	121220 P07	019	
082	SPIRE SSW PTC Ch's . 2gnd	S3D.-	-	S053	12AXD-38	13			HSJFS	76	121220 P07	013	
106	SPIRE SSW PTC Ch's . 3+	S3D.-	-	S053	12AXD-38	13		PTC-3	HSJFS	76	121220 P07	020	
107	SPIRE SSW PTC Ch's . 3-	S3D.-	-	S053	12AXD-38	13		Daisy ch to Pin 082 (B5)	HSJFS	76	121220 P07	007	
082	SPIRE SSW PTC Ch's . 3gnd	S3D.-	-	S053	12AXD-38	13			HSJFS	76	121220 P07	013	
083	SPIRE SSW PTC (5MOhm) . Res+	S3D.-	-	S248	12AXD-38	12		5M-1	HSJFS	76	121220 P07	021	
072	SPIRE SSW PTC (5MOhm) . Res-	S3D.-	-	S248	12AXD-38	12		Daisy ch to Pin 082 (B5)	HSJFS	76	121220 P07	008	
082	SPIRE SSW PTC (5MOhm) . Rgnd	S3D.-	-	S248	12AXD-38	12		Cable S053/248 inner Shd daisy ch to Pin 82 (A5)	HSJFS	76	121220 P07	013	
	Cable S053/248 12AXD Outer Shield							Cable S053/248 outer Shd con to Busbar (Faraday)					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 9)

Connector: 211121 J31

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
001	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
002	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
003	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
005	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
006	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
007	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
008	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
014	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
015	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
024	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
025	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
035	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
093	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
094	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
104	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
105	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
114	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
115	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
121	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
122	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-9 (of 9)

Connector: 211121 J31

Item: CWWUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)

Location: 33 / CVV I/F CB Top PFM (CWWUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
123	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
124	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
125	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
126	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
127	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
-	CH Connector Housing							CH isolated from Faraday Shd No Overall Shd at Junction Side Bundles isolated from S/C structure					





# Pin Allocation List (Harness)

Connector: 211121 J26

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
036	SPIRE PSW_JFETV_GND A1	SPX	- -	S431	010B0-30			GND Wire A1 con to cable 176-185 Shd	HSJFP	75	121210 P25	010	
026	SPIRE PSW_JFETV1_A . A+	SPL	- -	S176	022BS-38	1			HSJFP	75	121210 P25	020	
037	SPIRE PSW_JFETV1_A . A-	SPL	- -	S176	022BS-38	1			HSJFP	75	121210 P25	002	
036	SPIRE PSW_JFETV1_A . SHD01	SPL	- -	S176	022BS-38	1		Cabel S176 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	001	
-	Cable S176 outer Shield							Cable S176 outer Shd con to Busbar (Faraday)					
038	SPIRE PSW_JFETV2_A . A+	SPL	- -	S177	022BS-38	2			HSJFP	75	121210 P25	003	
049	SPIRE PSW_JFETV2_A . A-	SPL	- -	S177	022BS-38	2			HSJFP	75	121210 P25	022	
036	SPIRE PSW_JFETV2_A . SHD02	SPL	- -	S177	022BS-38	2		Cabel S177 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	021	
-	Cable S177 outer Shield							Cable S177 outer Shd con to Busbar (Faraday)					
048	SPIRE PSW_JFETV3_A . A+	SPL	- -	S178	022BS-38	3			HSJFP	75	121210 P25	023	
060	SPIRE PSW_JFETV3_A . A-	SPL	- -	S178	022BS-38	3			HSJFP	75	121210 P25	005	
036	SPIRE PSW_JFETV3_A . SHD03	SPL	- -	S178	022BS-38	3		Cabel S178 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	004	
-	Cable S178 outer Shield							Cable S178 outer Shd con to Busbar (Faraday)					
059	SPIRE PSW_JFETV4_A . A+	SPL	- -	S179	022BS-38	4			HSJFP	75	121210 P25	006	
071	SPIRE PSW_JFETV4_A . A-	SPL	- -	S179	022BS-38	4			HSJFP	75	121210 P25	025	
036	SPIRE PSW_JFETV4_A . SHD04	SPL	- -	S179	022BS-38	4		Cabel S179 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	024	
-	Cable S179 outer Shield							Cable S179 outer Shd con to Busbar (Faraday)					
050	SPIRE PSW_JFETV5_A . A+	SPL	- -	S180	022BS-38	5			HSJFP	75	121210 P25	026	
061	SPIRE PSW_JFETV5_A . A-	SPL	- -	S180	022BS-38	5			HSJFP	75	121210 P25	008	
036	SPIRE PSW_JFETV5_A . SHD05	SPL	- -	S180	022BS-38	5		Cabel S180 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	007	
-	Cable S180 outer Shield							Cable S180 outer Shd con to Busbar (Faraday)					
062	SPIRE PSW_JFETV6_A . A+	SPL	- -	S181	022BS-38	6			HSJFP	75	121210 P25	009	
051	SPIRE PSW_JFETV6_A . A-	SPL	- -	S181	022BS-38	6			HSJFP	75	121210 P25	028	

# Pin Allocation List (Harness)

Connector: 211121 J26

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PSW_JFETV6_A . SHD06	SPL	-	S181	022BS-38	6		Cabel S181 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	027	
-	Cable S181 outer Shield							Cable S181 outer Shd con to Busbar (Faraday)					
063	SPIRE PSW_Bias1/2_A . A+	SPK	-	S183	022BS-38	7		Cabel S183 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	011	
075	SPIRE PSW_Bias1/2_A . A-	SPK	-	S183	022BS-38	7			HSJFP	75	121210 P25	029	
036	SPIRE PSW_Bias1/2_A . SHD07	SPK	-	S183	022BS-38	7			HSJFP	75	121210 P25	030	
-	Cable S183 outer Shield							Cable S183 outer Shd con to Busbar (Faraday)					
074	SPIRE PSW_Bias3/4_A . A+	SPK	-	S184	022BS-38	8		Cabel S184 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	031	
073	SPIRE PSW_Bias3/4_A . A-	SPK	-	S184	022BS-38	8			HSJFP	75	121210 P25	012	
036	SPIRE PSW_Bias3/4_A . SHD08	SPK	-	S184	022BS-38	8			HSJFP	75	121210 P25	013	
-	Cable S184 outer Shield							Cable S184 outer Shd con to Busbar (Faraday)					
083	SPIRE PSW_Bias5/6_A . A+	SPK	-	S185	022BS-38	9		Cabel S185 inner Shd daisy ch to Pin 36 at CVV side (A1)	HSJFP	75	121210 P25	014	
072	SPIRE PSW_Bias5/6_A . A-	SPK	-	S185	022BS-38	9			HSJFP	75	121210 P25	032	
036	SPIRE PSW_Bias5/6_A . SHD09	SPK	-	S185	022BS-38	9			HSJFP	75	121210 P25	033	
-	Cable S185 outer Shield							Cable S185 outer Shd con to Busbar (Faraday)					
095	SPIRE PSW_Heater_A1 . A1+	SPM	-	S186	021SS-38	10		Cable Shd routed to Pin 105 at CVV side (routed as Gnd Wire B1)	HSJFP	75	121210 P25	034	
084	SPIRE PSW_Heater_A1 . A1-	SPM	-	S186	021SS-38	10			HSJFP	75	121210 P25	015	
105	SPIRE PSW_Heater_A1 . SHD10	SPM	-	S186	021SS-38	10			HSJFP	75	121210 P25	016	
-	Cable S186 outer Shield							Cable S186 outer Shd con to Busbar (Faraday)					
096	SPIRE PSW_Heater_A2 . A2+	SPM	-	S187	021SS-38	11		Cable Shd routed to Pin 105 at CVV side (routed as Gnd Wire B1)	HSJFP	75	121210 P25	017	
085	SPIRE PSW_Heater_A2 . A2-	SPM	-	S187	021SS-38	11			HSJFP	75	121210 P25	035	
105	SPIRE PSW_Heater_A2 . SHD11	SPM	-	S187	021SS-38	11			HSJFP	75	121210 P25	036	
-	Cable S187 outer Shield							Cable S187 outer Shd con to Busbar (Faraday)					
106	SPIRE PSW_Heater_A3 . A3+	SPM	-	S188	021SS-38	12		Cable S188 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P25	037	
107	SPIRE PSW_Heater_A3 . A3-	SPM	-	S188	021SS-38	12			HSJFP	75	121210 P25	018	

# Pin Allocation List (Harness)

Connector: 211121 J26  
Item: CVWUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFTnr 250.8° (SPIRE XS-03JFP25.26,27,28)  
Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Circuit	Signal Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
105	SPIRE PSW_Heater_A3 . SHD12	SPM,- -	-	S188	021SS-38	12			Cable Shd routed to Pin 105 at CVV side (B1)	HSJFP	75	121210 P25	036	
105	SPIRE PSW_HTR GND B1	SPX,- -	-	S432	010B0-30				Sum of Cable SHDs, not a Wire at J side	HSJFP	75	121210 P25	036	
-	P25 outer Shield								All P25 Outer Shds con to Busbar					
064	SPIRE PMW_GND A2	SPX,- -	-	S435	010B0-30				GND Wire A2 con to cable 190-195 Shd	HSJFP	75	121210 P27	028	
086	SPIRE PMW_JFETV1_A . A+	SPH,- -	-	S190	022BS-38	34				HSJFP	75	121210 P27	020	
087	SPIRE PMW_JFETV1_A . A-	SPH,- -	-	S190	022BS-38	34				HSJFP	75	121210 P27	002	
064	SPIRE PMW_JFETV1_A . SHD01	SPH,- -	-	S190	022BS-38	34			Cabel S190 inner Shd daisy ch to Pin 64 at CVV side (A2)	HSJFP	75	121210 P27	001	
-	Cable S190 outer Shield								Cable S190 outer Shd con to Busbar (Faraday)					
097	SPIRE PMW_JFETV2_A . A+	SPH,- -	-	S191	022BS-38	35				HSJFP	75	121210 P27	003	
098	SPIRE PMW_JFETV2_A . A-	SPH,- -	-	S191	022BS-38	35				HSJFP	75	121210 P27	022	
064	SPIRE PMW_JFETV2_A . SHD02	SPH,- -	-	S191	022BS-38	35			Cabel S191 inner Shd daisy ch to Pin 64 at CVV side (A2)	HSJFP	75	121210 P27	021	
-	Cable S191 outer Shield								Cable S191 outer Shd con to Busbar (Faraday)					
001	SPIRE PSW_JFETV_GND A3	SPX,- -	-	S433	010B0-30				GND Wire A3 con to cable 205-214 Shd	HSJFP	75	121210 P26	010	
108	SPIRE PMW_JFETV3_A . A+	SPH,- -	-	S192	022BS-38	36				HSJFP	75	121210 P27	023	
109	SPIRE PMW_JFETV3_A . A-	SPH,- -	-	S192	022BS-38	36				HSJFP	75	121210 P27	005	
064	SPIRE PMW_JFETV3_A . SHD03	SPH,- -	-	S192	022BS-38	36			Cabel S192 inner Shd daisy ch to Pin 64 at CVV side (A2)	HSJFP	75	121210 P27	004	
-	Cable S192 outer Shield								Cable S192 outer Shd con to Busbar (Faraday)					
116	SPIRE PMW_JFETV4_A . A+	SPH,- -	-	S193	022BS-38	37				HSJFP	75	121210 P27	006	
117	SPIRE PMW_JFETV4_A . A-	SPH,- -	-	S193	022BS-38	37				HSJFP	75	121210 P27	025	



# Pin Allocation List (Harness)

Connector: 211121 J26

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
							Shd	Cable Twist						
064	SPIRE PMW_JFETV4_A . SHD04	SPH.-	-	S193	022BS-38	37			Cabel S193 inner Shd daisy ch to Pin 64 at CVV side (A2)	HSJFP	75	121210 P27	024	
-	Cable S193 outer Shield								Cable S193 outer Shd con to Busbar (Faraday)					
076	SPIRE PMW_Bias1/2_A . A+	SPG.-	-	S194	022BS-38	32				HSJFP	75	121210 P27	026	
077	SPIRE PMW_Bias1/2_A . A-	SPG.-	-	S194	022BS-38	32				HSJFP	75	121210 P27	008	
064	SPIRE PMW_Bias1/2_A . SHD05	SPG.-	-	S194	022BS-38	32			Cabel S194 inner Shd daisy ch to Pin 64 at CVV side (A2)	HSJFP	75	121210 P27	007	
-	Cable S194 outer Shield								Cable S194 outer Shd con to Busbar (Faraday)					
088	SPIRE PMW_Bias3/4_A . A+	SPG.-	-	S195	022BS-38	33				HSJFP	75	121210 P27	027	
089	SPIRE PMW_Bias3/4_A . A-	SPG.-	-	S195	022BS-38	33				HSJFP	75	121210 P27	009	
064	SPIRE PMW_Bias3/4_A . SHD06	SPG.-	-	S195	022BS-38	33			Cabel S195 inner Shd daisy ch to Pin 64 at CVV side (A2)	HSJFP	75	121210 P27	028	
-	Cable S195 outer Shield								Cable S195 outer Shd con to Busbar (Faraday)					
114	SPIRE HTR GND B2	SPX.-	-	S436	010B0-30				Sum of Cable SHDs, not a Wire at J side PAGE 132 to be clarified !!	HSJFP	75	121210 P27	011	
103	SPIRE PMW_Heater_A1 . A1+	SPJ.-	-	S197	021SS-38	38				HSJFP	75	121210 P27	029	
113	SPIRE PMW_Heater_A1 . A1-	SPJ.-	-	S197	021SS-38	38				HSJFP	75	121210 P27	010	
114	SPIRE PMW_Heater_A1 . SHD07	SPJ.-	-	S197	021SS-38	38			Cable Shd routed to Pin 114 at CVV side (routed as Gnd Wire B2)	HSJFP	75	121210 P27	011	
102	SPIRE PMW_Heater_A2 . A2+	SPJ.-	-	S198	021SS-38	39				HSJFP	75	121210 P27	012	
101	SPIRE PMW_Heater_A2 . A2-	SPJ.-	-	S198	021SS-38	39				HSJFP	75	121210 P27	030	
114	SPIRE PMW_Heater_A2 . SHD08	SPJ.-	-	S198	021SS-38	39			Cable Shd routed to Pin 114 at CVV side (routed as Gnd Wire B2)	HSJFP	75	121210 P27	011	
092	SPIRE PLW_Heater_A . A+	SPF.-	-	S199	021SS-38	31				HSJFP	75	121210 P27	013	
104	SPIRE PLW_Heater_A . A-	SPF.-	-	S199	021SS-38	31				HSJFP	75	121210 P27	031	
093	SPIRE PLW_Heater_A . SHD09	SPF.-	-	S199	021SS-38	31			Cable Shd routed to Pin 093 at CVV side (routed as Gnd Wire D2)	HSJFP	75	121210 P27	011	

# Pin Allocation List (Harness)

**Connector:** 211121 J26  
**Item:** CVVUCR

**Function:** UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

**EMC-Category:** 2C/Sig H in Cryostat

Pin	Signal Designation	Circuit	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Signal	Pos.			Shd	Cable Twist						
99	SPIRE PLW_JFETV1_A . A+		SPE.-	-	S200	022BS-38	29	Cabel S200 inner Shd daisy ch to Pin 128 at CVV side (C2) Cable S200 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P27	014		
100	SPIRE PLW_JFETV1_A . A-		SPE.-	-	S200	022BS-38	29		HSJFP	75	121210 P27	032		
128	SPIRE PLW_JFETV1_A . SHD10		SPE.-	-	S200	022BS-38	29		HSJFP	75	121210 P27	033		
-	Cable S200 outer Shield													
110	SPIRE PLW_JFETV2_A . A+		SPE.-	-	S201	022BS-38	30	Cabel S201 inner Shd daisy ch to Pin 128 at CVV side (C2) Cable S201 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P27	034		
111	SPIRE PLW_JFETV2_A . A-		SPE.-	-	S201	022BS-38	30		HSJFP	75	121210 P27	015		
128	SPIRE PLW_JFETV2_A . SHD11		SPE.-	-	S201	022BS-38	30		HSJFP	75	121210 P27	016		
-	Cable S201 outer Shield													
118	SPIRE PLW_Bias1_A . A+		SPD.-	-	S202	022BS-38	27	Cabel S202 inner Shd daisy ch to Pin 128 at CVV side (C2) Cable S202 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P27	017		
119	SPIRE PLW_Bias1_A . A-		SPD.-	-	S202	022BS-38	27		HSJFP	75	121210 P27	035		
128	SPIRE PLW_Bias1_A . SHD12		SPD.-	-	S202	022BS-38	27		HSJFP	75	121210 P27	036		
-	Cable S202 outer Shield													
112	SPIRE PLW_Bias2_A . A+		SPD.-	-	S203	022BS-38	28	Cabel S203 inner Shd daisy ch to Pin 128 at CVV side (C2) Cable S203 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P27	037		
120	SPIRE PLW_Bias2_A . A-		SPD.-	-	S203	022BS-38	28		HSJFP	75	121210 P27	018		
128	SPIRE PLW_Bias2_A . SHD13		SPD.-	-	S203	022BS-38	28		HSJFP	75	121210 P27	019		
-	Cable S203 outer Shield													
128	SPIRE PLW_GND C2		SPX.-	-	S437	010B0-30		GND Wire C2 con to Cable SHDs	HSJFP	75	121210 P27	019		
-	P27 outer Shields							All P27 Outer Shds con to Busbar						
042	SPIRE PSW_JFETV1_B . B+		SPL.-	-	S205	022BS-38	17		HSJFP	75	121210 P26	020		
054	SPIRE PSW_JFETV1_B . B-		SPL.-	-	S205	022BS-38	17		HSJFP	75	121210 P26	002		

# Pin Allocation List (Harness)

Connector: 211121 J26

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
Location: 33 / CVV I/F CB Top PFM (CWUJCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
001	SPIRE PSW_JFETV1_B . SHD01	SPL.-	-		S205	022BS-38	17				Cabel S205 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	001	
-	Cable S205 outer Shield										Cable S205 outer Shd con to Busbar (Faraday)					
053	SPIRE PSW_JFETV2_B . B+	SPL.-	-		S206	022BS-38	18				Cabel S206 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	003	
052	SPIRE PSW_JFETV2_B . B-	SPL.-	-		S206	022BS-38	18				Cabel S206 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	022	
001	SPIRE PSW_JFETV2_B . SHD02	SPL.-	-		S206	022BS-38	18				Cabel S206 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P26	021	
-	Cable S206 outer Shield															
041	SPIRE PSW_JFETV3_B . B+	SPL.-	-		S207	022BS-38	19				Cabel S207 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	023	
030	SPIRE PSW_JFETV3_B . B-	SPL.-	-		S207	022BS-38	19				Cabel S207 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	005	
001	SPIRE PSW_JFETV3_B . SHD03	SPL.-	-		S207	022BS-38	19				Cabel S207 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P26	004	
-	Cable S207 outer Shield															
010	SPIRE PSW_JFETV4_B . B+	SPL.-	-		S208	022BS-38	20				Cabel S208 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	006	
011	SPIRE PSW_JFETV4_B . B-	SPL.-	-		S208	022BS-38	20				Cabel S208 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	025	
001	SPIRE PSW_JFETV4_B . SHD04	SPL.-	-		S208	022BS-38	20				Cabel S208 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P26	024	
-	Cable S208 outer Shield															
019	SPIRE PSW_JFETV5_B . B+	SPL.-	-		S209	022BS-38	21				Cabel S209 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	026	
029	SPIRE PSW_JFETV5_B . B-	SPL.-	-		S209	022BS-38	21				Cabel S209 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	008	
001	SPIRE PSW_JFETV5_B . SHD05	SPL.-	-		S209	022BS-38	21				Cabel S209 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P26	007	
-	Cable S209 outer Shield															
016	SPIRE PSW_JFETV6_B . B+	SPL.-	-		S210	022BS-38	22				Cabel S210 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	009	
027	SPIRE PSW_JFETV6_B . B-	SPL.-	-		S210	022BS-38	22				Cabel S210 inner Shd daisy ch to Pin 01 at CVV side (A3)	HSJFP	75	121210 P26	028	
001	SPIRE PSW_JFETV6_B . SHD06	SPL.-	-		S210	022BS-38	22				Cabel S210 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P26	027	
-	Cable S210 outer Shield															

# Pin Allocation List (Harness)

Connector: 211121 J26

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
040	SPIRE PSW_Bias1/2_B . B+	SPK.-	-	S212	022BS-38	14	Cabel S212 inner Shd daisy ch to Pin 01 at CVW side (A3)	HSJFP	75	121210 P26	011	
039	SPIRE PSW_Bias1/2_B . B-	SPK.-	-	S212	022BS-38	14		HSJFP	75	121210 P26	029	
001	SPIRE PSW_Bias1/2_B . SHD07	SPK.-	-	S212	022BS-38	14		HSJFP	75	121210 P26	030	
-	Cable S212 outer Shield						Cable S212 outer Shd con to Busbar (Faraday)					
018	SPIRE PSW_Bias3/4_B . B+	SPK.-	-	S213	022BS-38	15	Cabel S213 inner Shd daisy ch to Pin 01 at CVW side (A3)	HSJFP	75	121210 P26	031	
028	SPIRE PSW_Bias3/4_B . B-	SPK.-	-	S213	022BS-38	15		HSJFP	75	121210 P26	012	
001	SPIRE PSW_Bias3/4_B . SHD08	SPK.-	-	S213	022BS-38	15		HSJFP	75	121210 P26	013	
-	Cable S213 outer Shield						Cable S213 outer Shd con to Busbar (Faraday)					
009	SPIRE PSW_Bias5/6_B . B+	SPK.-	-	S214	022BS-38	16	Cabel S214 inner Shd daisy ch to Pin 01 at CVW side (A3)	HSJFP	75	121210 P26	014	
017	SPIRE PSW_Bias5/6_B . B-	SPK.-	-	S214	022BS-38	16		HSJFP	75	121210 P26	032	
001	SPIRE PSW_Bias5/6_B . SHD09	SPK.-	-	S214	022BS-38	16		HSJFP	75	121210 P26	033	
-	Cable S214 outer Shield						Cable S214 outer Shd con to Busbar (Faraday)					
005	SPIRE PSW_HTR_GND B3	SPX.-	-	S434	010B0-30		Sum of Cable SHDs, not a Wire at J side	HSJFP	75	121210 P26	036	
013	SPIRE PSW_Heater_B1 . B1+	SPM.-	-	S215	021SS-38	23	Cable Shd routed to Pin 005 at CVW side (routed as Gnd Wire B2)	HSJFP	75	121210 P26	034	
012	SPIRE PSW_Heater_B1 . B1-	SPM.-	-	S215	021SS-38	23		HSJFP	75	121210 P26	015	
005	SPIRE PSW_Heater_B1 . SHD10	SPM.-	-	S215	021SS-38	23		HSJFP	75	121210 P26	016	
021	SPIRE PSW_Heater_B2 . B2+	SPM.-	-	S216	021SS-38	24	Cable Shd routed to Pin 005 at CVW side (routed as Gnd Wire B2)	HSJFP	75	121210 P26	017	
020	SPIRE PSW_Heater_B2 . B2-	SPM.-	-	S216	021SS-38	24		HSJFP	75	121210 P26	035	
005	SPIRE PSW_Heater_B2 . SHD11	SPM.-	-	S216	021SS-38	24		HSJFP	75	121210 P26	036	
031	SPIRE PSW_Heater_B3 . B3+	SPM.-	-	S217	021SS-38	25	Cable Shd routed to Pin 005 at CVW side (B2)	HSJFP	75	121210 P26	037	
043	SPIRE PSW_Heater_B3 . B3-	SPM.-	-	S217	021SS-38	25		HSJFP	75	121210 P26	018	
005	SPIRE PSW_Heater_B3 . SHD12	SPM.-	-	S217	021SS-38	25		HSJFP	75	121210 P26	036	

# Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 11)

**Connector:** 211121 J26

**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
006	SPIRE PMW_GND A4	SPX	-	S438	010B0-30			GND Wire A4 con to P28 SHDs	HSJFP	75	121210 P28	028	
007	SPIRE PMW_JFETV1_B . B+	SPH	-	S219	022BS-38	49			HSJFP	75	121210 P28	020	
014	SPIRE PMW_JFETV1_B . B-	SPH	-	S219	022BS-38	49			HSJFP	75	121210 P28	002	
006	SPIRE PMW_JFETV1_B . SHD01	SPH	-	S219	022BS-38	49		Cabel S219 inner Shd daisy ch to Pin 06 at CVV side (A4)	HSJFP	75	121210 P28	001	
-	Cable S219 outer Shield							Cable S219 outer Shd con to Busbar (Faraday)					
024	SPIRE PMW_JFETV2_B . B+	SPH	-	S220	022BS-38	50			HSJFP	75	121210 P28	003	
035	SPIRE PMW_JFETV2_B . B-	SPH	-	S220	022BS-38	50			HSJFP	75	121210 P28	022	
006	SPIRE PMW_JFETV2_B . SHD02	SPH	-	S220	022BS-38	50		Cabel S220 inner Shd daisy ch to Pin 06 at CVV side (A4)	HSJFP	75	121210 P28	021	
-	Cable S220 outer Shield							Cable S220 outer Shd con to Busbar (Faraday)					
023	SPIRE PMW_JFETV3_B . B+	SPH	-	S221	022BS-38	51			HSJFP	75	121210 P28	023	
034	SPIRE PMW_JFETV3_B . B-	SPH	-	S221	022BS-38	51			HSJFP	75	121210 P28	005	
006	SPIRE PMW_JFETV3_B . SHD03	SPH	-	S221	022BS-38	51		Cabel S221 inner Shd daisy ch to Pin 06 at CVV side (A4)	HSJFP	75	121210 P28	004	
-	Cable S221 outer Shield							Cable S221 outer Shd con to Busbar (Faraday)					
033	SPIRE PMW_JFETV4_B . B+	SPH	-	S222	022BS-38	52			HSJFP	75	121210 P28	006	
045	SPIRE PMW_JFETV4_B . B-	SPH	-	S222	022BS-38	52			HSJFP	75	121210 P28	025	
006	SPIRE PMW_JFETV4_B . SHD04	SPH	-	S222	022BS-38	52		Cabel S222 inner Shd daisy ch to Pin 06 at CVV side (A4)	HSJFP	75	121210 P28	024	
-	Cable S222 outer Shield							Cable S222 outer Shd con to Busbar (Faraday)					
044	SPIRE PMW_Bias1/2_B . B+	SPG	-	S223	022BS-38	47			HSJFP	75	121210 P28	026	
056	SPIRE PMW_Bias1/2_B . B-	SPG	-	S223	022BS-38	47			HSJFP	75	121210 P28	008	
006	SPIRE PMW_Bias1/2_B . SHD05	SPG	-	S223	022BS-38	47		Cabel S223 inner Shd daisy ch to Pin 06 at CVV side (A4)	HSJFP	75	121210 P28	007	
-	Cable S223 outer Shield							Cable S223 outer Shd con to Busbar (Faraday)					

# Pin Allocation List (Harness)

Connector: 211121 J26

Item: CVWUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
022	SPIRE PMW_Bias3/4_B . B+	SPG.-	-	S224	022BS-38	48					HSJFP	75	121210 P28	027	
032	SPIRE PMW_Bias3/4_B . B-	SPG.-	-	S224	022BS-38	48					HSJFP	75	121210 P28	009	
006	SPIRE PMW_Bias3/4_B . SHD06	SPG.-	-	S224	022BS-38	48				Cabel S224 inner Shd daisy ch to Pin 06 at CVV side (A4)	HSJFP	75	121210 P28	028	
-	Cable S224 outer Shield									Cable S224 outer Shd con to Busbar (Faraday)					
065	SPIRE HTR_GND B4	SPX.-	-	S439	010B0-30					Sum of Cable SHDs, not a Wire at J side PAGE 132 to be clarified !!	HSJFP	75	121210 P28	011	
055	SPIRE PMW_Heater_B1 . B1+	SPJ.-	-	S226	021SS-38	53					HSJFP	75	121210 P28	029	
066	SPIRE PMW_Heater_B1 . B1-	SPJ.-	-	S226	021SS-38	53					HSJFP	75	121210 P28	010	
065	SPIRE PMW_Heater_B1 . SHD07	SPJ.-	-	S226	021SS-38	53				Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	HSJFP	75	121210 P28	011	
067	SPIRE PMW_Heater_B2 . B2+	SPJ.-	-	S227	021SS-38	54					HSJFP	75	121210 P28	012	
078	SPIRE PMW_Heater_B2 . B2-	SPJ.-	-	S227	021SS-38	54					HSJFP	75	121210 P28	030	
065	SPIRE PMW_Heater_B2 . SHD08	SPJ.-	-	S227	021SS-38	54				Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	HSJFP	75	121210 P28	011	
090	SPIRE PLW_Heater_B . B+	SPF.-	-	S228	021SS-38	46					HSJFP	75	121210 P28	013	
079	SPIRE PLW_Heater_B . B-	SPF.-	-	S228	021SS-38	46					HSJFP	75	121210 P28	031	
065	SPIRE PLW_Heater_B . SHD09	SPF.-	-	S228	021SS-38	46				Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	HSJFP	75	121210 P28	011	
091	SPIRE PLW_GND C4	SPX.-	-	S440	010B0-30					GND Wire C4 con to Cable SHDs	HSJFP	75	121210 P28	019	
070	SPIRE PLW_JFETV1_B . B+	SPE.-	-	S229	022BS-38	44					HSJFP	75	121210 P28	014	
081	SPIRE PLW_JFETV1_B . B-	SPE.-	-	S229	022BS-38	44					HSJFP	75	121210 P28	032	
091	SPIRE PLW_JFETV1_B . SHD10	SPE.-	-	S229	022BS-38	44				Cabel S229 inner Shd daisy ch to Pin 91 at CVV side (C4)	HSJFP	75	121210 P28	033	
-	Cable S229 outer Shield									Cable S229 outer Shd con to Busbar (Faraday)					

# Pin Allocation List

(Harness)

**Connector:** 211121 J26

**Item:** CVUUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 250.8° (SPIRE XS-03JFP25.26,27,28)

**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring						
069	SPIRE PLW_JFETV2_B . B+	SPE.-	-	S230	022BS-38	45	Cabel S230 inner Shd daisy ch to Pin 91 at CVV side (C4)	HSJFP	75	121210 P28	034	
080	SPIRE PLW_JFETV2_B . B-	SPE.-	-	S230	022BS-38	45		HSJFP	75	121210 P28	015	
091	SPIRE PLW_JFETV2_B . SHD11	SPE.-	-	S230	022BS-38	45		Cable S230 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P28	016
-	Cable S230 outer Shield											
068	SPIRE PLW_Bias1_B . B+	SPD.-	-	S231	022BS-38	42	Cabel S231 inner Shd daisy ch to Pin 91 at CVV side (C4)	HSJFP	75	121210 P28	017	
057	SPIRE PLW_Bias1_B . B-	SPD.-	-	S231	022BS-38	42		HSJFP	75	121210 P28	035	
091	SPIRE PLW_Bias1_B . SHD12	SPD.-	-	S231	022BS-38	42		Cable S231 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P28	036
-	Cable S231 outer Shield											
058	SPIRE PLW_Bias2_B . B+	SPD.-	-	S232	022BS-38	43	Cabel S232 inner Shd daisy ch to Pin 91 at CVV side (C4)	HSJFP	75	121210 P28	037	
046	SPIRE PLW_Bias2_B . B-	SPD.-	-	S232	022BS-38	43		HSJFP	75	121210 P28	018	
091	SPIRE PLW_Bias2_B . SHD13	SPD.-	-	S232	022BS-38	43		Cable S232 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P28	019
-	Cable S232 outer Shield											
-	Faraday Shd Pins						Connected to Busbar					
002	Faraday Shd Pins						Connected to Busbar					
003	Faraday Shd Pins						Connected to Busbar					
004	Faraday Shd Pins						Connected to Busbar					
005	Faraday Shd Pins						Connected to Busbar					
007	Faraday Shd Pins						Connected to Busbar					
008	Faraday Shd Pins						Connected to Busbar					
015	Faraday Shd Pins						Connected to Busbar					
025	Faraday Shd Pins						Connected to Busbar					
047	Faraday Shd Pins						Connected to Busbar					
065	Faraday Shd Pins						Connected to Busbar					
082	Faraday Shd Pins						Connected to Busbar					
093	Faraday Shd Pins						Connected to Busbar					
094	Faraday Shd Pins						Connected to Busbar					
105	Faraday Shd Pins						Connected to Busbar					
114	Faraday Shd Pins						Connected to Busbar					
115	Faraday Shd Pins						Connected to Busbar					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-11 (of 11)

Connector: 211121 J26

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 250.8° (SPIRE XS-03JFP25.26.27,28)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
121	Faraday Shd Pins	-	-					Connected to Busbar					
122	Faraday Shd Pins	-	-					Connected to Busbar					
123	Faraday Shd Pins	-	-					Connected to Busbar					
124	Faraday Shd Pins	-	-					Connected to Busbar					
125	Faraday Shd Pins	-	-					Connected to Busbar					
126	Faraday Shd Pins	-	-					Connected to Busbar					
127	Faraday Shd Pins	-	-					Connected to Busbar					
-	CH Connector Housing							CH isolated from Faraday Shd					
-								No Overall Shd at Junction side					
-								Bundles isolated from S/C structure					







# Pin Allocation List (Harness)

Connector: 211121 J22

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFTnr 193.0° (SPIRE XS-04JFP21,22,23,24)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal	Pos.	Ch. ID	Wiring						
036	SPIRE PMW B04 GND WIRE A1	SPX	-	-	S441	010B0-30	Con to Cable from P24 GND/Shds	HSJFP	75	121210 P24	013	
026	SPIRE PMW Ch01 to 04 . 1+	SPB	-	-	S067	12AXD-38	PMW-F10	HSJFP	75	121210 P24	001	
037	SPIRE PMW Ch01 to 04 . 1-	SPB	-	-	S067	12AXD-38	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	014	
036	SPIRE PMW Ch01 to 04 . 1gnd	SPB	-	-	S067	12AXD-38		HSJFP	75	121210 P24	013	
038	SPIRE PMW Ch01 to 04 . 2+	SPB	-	-	S067	12AXD-38	PMW-E11	HSJFP	75	121210 P24	002	
049	SPIRE PMW Ch01 to 04 . 2-	SPB	-	-	S067	12AXD-38	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	015	
036	SPIRE PMW Ch01 to 04 . 2gnd	SPB	-	-	S067	12AXD-38		HSJFP	75	121210 P24	013	
048	SPIRE PMW Ch01 to 04 . 3+	SPB	-	-	S067	12AXD-38	PMW-G11	HSJFP	75	121210 P24	003	
060	SPIRE PMW Ch01 to 04 . 3-	SPB	-	-	S067	12AXD-38	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	016	
036	SPIRE PMW Ch01 to 04 . 3gnd	SPB	-	-	S067	12AXD-38		HSJFP	75	121210 P24	013	
059	SPIRE PMW Ch01 to 04 . 4+	SPB	-	-	S067	12AXD-38	PMW-F11	HSJFP	75	121210 P24	004	
071	SPIRE PMW Ch01 to 04 . 4-	SPB	-	-	S067	12AXD-38	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	017	
036	SPIRE PMW Ch01 to 04 . 4gnd	SPB	-	-	S067	12AXD-38	Cable S067 inner Shd Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	013	
036	SPIRE PMW Ch01 to 04 . SHD01	SPB	-	-	S067	12AXD-38	Cable S067 outer Shd con to Busbar (Faraday)	HSJFP	75	121210 P24	013	
-	Cable S067 12AXD Outer Shield											
050	SPIRE PMW Ch05 to 08 . 5+	SPB	-	-	S068	12AXD-38	PMW-E12	HSJFP	75	121210 P24	005	
061	SPIRE PMW Ch05 to 08 . 5-	SPB	-	-	S068	12AXD-38	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	018	
036	SPIRE PMW Ch05 to 08 . 5gnd	SPB	-	-	S068	12AXD-38		HSJFP	75	121210 P24	013	
062	SPIRE PMW Ch05 to 08 . 6+	SPB	-	-	S068	12AXD-38	PMW-G12	HSJFP	75	121210 P24	006	
051	SPIRE PMW Ch05 to 08 . 6-	SPB	-	-	S068	12AXD-38	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	019	
036	SPIRE PMW Ch05 to 08 . 6gnd	SPB	-	-	S068	12AXD-38		HSJFP	75	121210 P24	013	
063	SPIRE PMW Ch05 to 08 . 7+	SPB	-	-	S068	12AXD-38	PMW-F12	HSJFP	75	121210 P24	020	
075	SPIRE PMW Ch05 to 08 . 7-	SPB	-	-	S068	12AXD-38	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	007	
036	SPIRE PMW Ch05 to 08 . 7gnd	SPB	-	-	S068	12AXD-38		HSJFP	75	121210 P24	013	
074	SPIRE PMW Ch05 to 08 . 8+	SPB	-	-	S068	12AXD-38	PMW-G13	HSJFP	75	121210 P24	021	
073	SPIRE PMW Ch05 to 08 . 8-	SPB	-	-	S068	12AXD-38	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	008	
036	SPIRE PMW Ch05 to 08 . 8gnd	SPB	-	-	S068	12AXD-38		HSJFP	75	121210 P24	013	

# Pin Allocation List (Harness)

Connector: 211121 J22

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 193.0° (SPIRE XS-04JFP21.22.23.24)  
Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PMW Ch05 to 08 . SHD02	SPB.-	-	S068	12AXD-38	2	B	Cable S068 inner Shd Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	013	
-	Cable S068 12 AXD Outer Shield							Cable S068 outer Shd con to Busbar (Faraday)					
083	SPIRE PMW Ch09 to 12 . 9+	SPB.-	-	S069	12AXD-38	3	C	PMW-DK2	HSJFP	75	121210 P24	022	
072	SPIRE PMW Ch09 to 12 . 9-	SPB.-	-	S069	12AXD-38	3	C		HSJFP	75	121210 P24	009	
036	SPIRE PMW Ch09 to 12 . 9gnd	SPB.-	-	S069	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	013	
095	SPIRE PMW Ch09 to 12 . 10+	SPB.-	-	S069	12AXD-38	3	C	SPARE Channel	HSJFP	75	121210 P24	023	
084	SPIRE PMW Ch09 to 12 . 10-	SPB.-	-	S069	12AXD-38	3	C	SPARE Channel	HSJFP	75	121210 P24	010	
036	SPIRE PMW Ch09 to 12 . 10gnd	SPB.-	-	S069	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	013	
096	SPIRE PMW Ch09 to 12 . 11+	SPB.-	-	S069	12AXD-38	3	C	SPARE Channel	HSJFP	75	121210 P24	024	
085	SPIRE PMW Ch09 to 12 . 11-	SPB.-	-	S069	12AXD-38	3	C	SPARE Channel	HSJFP	75	121210 P24	011	
036	SPIRE PMW Ch09 to 12 . 11gnd	SPB.-	-	S069	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	013	
106	SPIRE PMW Ch09 to 12 . 12+	SPB.-	-	S069	12AXD-38	3	C	SPARE Channel	HSJFP	75	121210 P24	025	
107	SPIRE PMW Ch09 to 12 . 12-	SPB.-	-	S069	12AXD-38	3	C	SPARE Channel	HSJFP	75	121210 P24	012	
036	SPIRE PMW Ch09 to 12 . 12gnd	SPB.-	-	S069	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	013	
036	SPIRE PMW Ch09 to 12 . SHD03	SPB.-	-	S069	12AXD-38	3	C	Cable S069 inner Shd Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P24	013	
-	Cable S069 12 AXD Outer Shield							Cable S069 outer Shd con to Busbar (Faraday)					
128	SPIRE PMW B04 GND Wire A2	SPX.-	-	S442	010B0-30			Con to Cable from P23 GND/Shds	HSJFP	75	121210 P23	013	
086	SPIRE PMW Ch 13 to 16 . 13+	SPB.-	-	S072	12AXD-38	4	D	PMW-E7	HSJFP	75	121210 P23	001	
087	SPIRE PMW Ch 13 to 16 . 13-	SPB.-	-	S072	12AXD-38	4	D		HSJFP	75	121210 P23	014	
128	SPIRE PMW Ch 13 to 16 . 13gnd	SPB.-	-	S072	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	013	
097	SPIRE PMW Ch 13 to 16 . 14+	SPB.-	-	S072	12AXD-38	4	D	PMW-D7	HSJFP	75	121210 P23	002	
098	SPIRE PMW Ch 13 to 16 . 14-	SPB.-	-	S072	12AXD-38	4	D		HSJFP	75	121210 P23	015	
128	SPIRE PMW Ch 13 to 16 . 14gnd	SPB.-	-	S072	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	013	

# Pin Allocation List (Harness)

Connector: 211121 J22

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 193.0° (SPIRE XS-04JFP21.22.23.24)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
108	SPIRE PMW Ch 13 to 16 . 15+	SPB.-	-	S072	12AXD-38	4	D	PMW-F7	HSJFP	75	121210 P23	003	
109	SPIRE PMW Ch 13 to 16 . 15-	SPB.-	-	S072	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	016	
128	SPIRE PMW Ch 13 to 16 . 15gnd	SPB.-	-	S072	12AXD-38	4	D		HSJFP	75	121210 P23	013	
116	SPIRE PMW Ch 13 to 16 . 16+	SPB.-	-	S072	12AXD-38	4	D	PMW-E8	HSJFP	75	121210 P23	004	
117	SPIRE PMW Ch 13 to 16 . 16-	SPB.-	-	S072	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	017	
128	SPIRE PMW Ch 13 to 16 . 16gnd	SPB.-	-	S072	12AXD-38	4	D		HSJFP	75	121210 P23	013	
128	SPIRE PMW Ch 13 to 16 . SHD01	SPB.-	-	S072	12AXD-38	4	D	Cable S072 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	013	
-	Cable S072 12 AXD Outer Shield							Cable S072 outer Shd con to Busbar (Faraday)					
055	SPIRE PMW Ch17 to 19 . 17+	SPB.-	-	S073	12AXD-38	5	E	PMW-G8	HSJFP	75	121210 P23	005	
066	SPIRE PMW Ch17 to 19 . 17-	SPB.-	-	S073	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	018	
128	SPIRE PMW Ch17 to 19 . 17gnd	SPB.-	-	S073	12AXD-38	5	E		HSJFP	75	121210 P23	013	
067	SPIRE PMW Ch17 to 19 . 18+	SPB.-	-	S073	12AXD-38	5	E	PMW-F8	HSJFP	75	121210 P23	006	
078	SPIRE PMW Ch17 to 19 . 18-	SPB.-	-	S073	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	019	
128	SPIRE PMW Ch17 to 19 . 18gnd	SPB.-	-	S073	12AXD-38	5	E		HSJFP	75	121210 P23	013	
076	SPIRE PMW Ch17 to 19 . 19+	SPB.-	-	S073	12AXD-38	5	E	PMW-E9	HSJFP	75	121210 P23	020	
077	SPIRE PMW Ch17 to 19 . 19-	SPB.-	-	S073	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	007	
128	SPIRE PMW Ch17 to 19 . 19gnd	SPB.-	-	S073	12AXD-38	5	E		HSJFP	75	121210 P23	013	
088	SPIRE PMW Ch 20 . 20+	SPB.-	-	S73A	12AXD-38	5	E	PMW-G9	HSJFP	75	121210 P23	021	
089	SPIRE PMW Ch 20 . 20-	SPB.-	-	S73A	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	008	
128	SPIRE PMW Ch 20 . 20gnd	SPB.-	-	S73A	12AXD-38	5	E		HSJFP	75	121210 P23	013	
128	SPIRE PMW Ch17 to 19 . SHD02	SPB.-	-	S073	12AXD-38	5	E	Cable S073 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	013	
-	Cable S073 12 AXD Outer Shield							Cable S063 outer Shd con to Busbar (Faraday)					
099	SPIRE PMW Ch21 to 24 . 21+	SPB.-	-	S074	12AXD-38	6	F	PMW-D9	HSJFP	75	121210 P23	022	
100	SPIRE PMW Ch21 to 24 . 21-	SPB.-	-	S074	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	009	
128	SPIRE PMW Ch21 to 24 . 21gnd	SPB.-	-	S074	12AXD-38	6	F		HSJFP	75	121210 P23	013	
110	SPIRE PMW Ch21 to 24 . 22+	SPB.-	-	S074	12AXD-38	6	F	PMW-F9	HSJFP	75	121210 P23	023	

# Pin Allocation List (Harness)

Connector: 211121 J22

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
111	SPIRE PMW Ch21 to 24 . 22-	SPB.-	-	S074	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	010	
128	SPIRE PMW Ch21 to 24 . 22gnd	SPB.-	-	S074	12AXD-38	6	F		HSJFP	75	121210 P23	013	
118	SPIRE PMW Ch21 to 24 . 23+	SPB.-	-	S074	12AXD-38	6	F	PMW-E10	HSJFP	75	121210 P23	024	
119	SPIRE PMW Ch21 to 24 . 23-	SPB.-	-	S074	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	011	
128	SPIRE PMW Ch21 to 24 . 23gnd	SPB.-	-	S074	12AXD-38	6	F		HSJFP	75	121210 P23	013	
112	SPIRE PMW Ch21 to 24 . 24+	SPB.-	-	S074	12AXD-38	6	F	PMW-G10	HSJFP	75	121210 P23	025	
120	SPIRE PMW Ch21 to 24 . 24-	SPB.-	-	S074	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	012	
128	SPIRE PMW Ch21 to 24 . 24gnd	SPB.-	-	S074	12AXD-38	6	F		HSJFP	75	121210 P23	013	
128	SPIRE PMW Ch21 to 24 . SHD03	SPB.-	-	S074	12AXD-38	6	F	Cable S074 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P23	013	
-	Cable S074 12 AXD Outer Shield							Cable S074 outer Shd con to Busbar (Faraday)					
047	SPIRE PMW B04 GND Wire A3	SPX.-	-	S443	010B0-30			Con to Cable from P22 GND /Shds	HSJFP	75	121210 P22	13	
090	SPIRE PMW Ch25 to 28 . 25+	SPB.-	-	S076	12AXD-38	8	G	PMW-C4	HSJFP	75	121210 P22	001	
079	SPIRE PMW Ch25 to 28 . 25-	SPB.-	-	S076	12AXD-38	8	G		HSJFP	75	121210 P22	014	
047	SPIRE PMW Ch25 to 28 . 25gnd	SPB.-	-	S076	12AXD-38	8	G	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
102	SPIRE PMW Ch25 to 28 . 26+	SPB.-	-	S076	12AXD-38	8	G	PMW-B3	HSJFP	75	121210 P22	002	
101	SPIRE PMW Ch25 to 28 . 26-	SPB.-	-	S076	12AXD-38	8	G		HSJFP	75	121210 P22	015	
047	SPIRE PMW Ch25 to 28 . 26gnd	SPB.-	-	S076	12AXD-38	8	G	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
092	SPIRE PMW Ch25 to 28 . 27+	SPB.-	-	S076	12AXD-38	8	G	PMW-C3	HSJFP	75	121210 P22	003	
091	SPIRE PMW Ch25 to 28 . 27-	SPB.-	-	S076	12AXD-38	8	G		HSJFP	75	121210 P22	016	
047	SPIRE PMW Ch25 to 28 . 27gnd	SPB.-	-	S076	12AXD-38	8	G	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
103	SPIRE PMW Ch25 to 28 . 28+	SPB.-	-	S076	12AXD-38	8	G	PMW-B2	HSJFP	75	121210 P22	004	
113	SPIRE PMW Ch25 to 28 . 28-	SPB.-	-	S076	12AXD-38	8	G		HSJFP	75	121210 P22	017	
047	SPIRE PMW Ch25 to 28 . 28gnd	SPB.-	-	S076	12AXD-38	8	G	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
047	SPIRE PMW Ch25 to 28 . SHD01	SPB.-	-	S076	12AXD-38	8	G	Cable S076 inner Shd daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
-	Cable S076 12 AXD Outer Shield							Cable S076 outer Shd con to Busbar (Faraday)					

# Pin Allocation List

(Harness)

**Connector:** 211121 J22  
**Item:** CWUUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)  
**Location:** 33 / CWV I/F CB Top PFM (CWVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
					Shd	Cable Twist						
058	SPIRE PMW Ch29 to 32.. 29+	SPB.- -	S077	12AXD-38	9	H	PMW-D2	HSJFP	75	121210 P22	005	
046	SPIRE PMW Ch29 to 32.. 29-	SPB.- -	S077	12AXD-38	9	H		HSJFP	75	121210 P22	018	
047	SPIRE PMW Ch29 to 32.. 29gnd	SPB.- -	S077	12AXD-38	9	H	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
068	SPIRE PMW Ch29 to 32.. 30+	SPB.- -	S077	12AXD-38	9	H	PMW-A3	HSJFP	75	121210 P22	006	
057	SPIRE PMW Ch29 to 32.. 30-	SPB.- -	S077	12AXD-38	9	H		HSJFP	75	121210 P22	019	
047	SPIRE PMW Ch29 to 32.. 30gnd	SPB.- -	S077	12AXD-38	9	H	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
069	SPIRE PMW Ch29 to 32.. 31+	SPB.- -	S077	12AXD-38	9	H	PMW-A2	HSJFP	75	121210 P22	020	
080	SPIRE PMW Ch29 to 32.. 31-	SPB.- -	S077	12AXD-38	9	H		HSJFP	75	121210 P22	007	
047	SPIRE PMW Ch29 to 32.. 31gnd	SPB.- -	S077	12AXD-38	9	H	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
070	SPIRE PMW Ch29 to 32.. 32+	SPB.- -	S077	12AXD-38	9	H	PMW-C2	HSJFP	75	121210 P22	021	
081	SPIRE PMW Ch29 to 32.. 32-	SPB.- -	S077	12AXD-38	9	H		HSJFP	75	121210 P22	008	
047	SPIRE PMW Ch29 to 32.. 32gnd	SPB.- -	S077	12AXD-38	9	H	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
047	SPIRE PMW Ch29 to 32.. SHD02	SPB.- -	S077	12AXD-38	9	H	Cable S077 inner Shd daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
-	Cable S077 12 AXD Outer Shield						Cable S077 outer Shd con to Busbar (Faraday)					
023	SPIRE PMW Ch33 to 35.. 33+	SPB.- -	S078	12AXD-38	10	I	PMW-B1	HSJFP	75	121210 P22	022	
034	SPIRE PMW Ch33 to 35.. 33-	SPB.- -	S078	12AXD-38	10	I		HSJFP	75	121210 P22	009	
047	SPIRE PMW Ch33 to 35.. 33gnd	SPB.- -	S078	12AXD-38	10	I	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
033	SPIRE PMW Ch33 to 35.. 34+	SPB.- -	S078	12AXD-38	10	I	PMW-A1	HSJFP	75	121210 P22	023	
045	SPIRE PMW Ch33 to 35.. 34-	SPB.- -	S078	12AXD-38	10	I		HSJFP	75	121210 P22	010	
047	SPIRE PMW Ch33 to 35.. 34gnd	SPB.- -	S078	12AXD-38	10	I	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
044	SPIRE PMW Ch33 to 35.. 35+	SPB.- -	S078	12AXD-38	10	I	PMW-DK1	HSJFP	75	121210 P22	024	
056	SPIRE PMW Ch33 to 35.. 35-	SPB.- -	S078	12AXD-38	10	I		HSJFP	75	121210 P22	011	
047	SPIRE PMW Ch33 to 35.. 35gnd	SPB.- -	S078	12AXD-38	10	I	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	
022	SPIRE PMW Ch36.. 36+	SPB.- -	S78A	12AXD-38	10	I	PMW-C1	HSJFP	75	121210 P22	025	
032	SPIRE PMW Ch36.. 36-	SPB.- -	S78A	12AXD-38	10	I		HSJFP	75	121210 P22	012	
047	SPIRE PMW Ch36.. 36gnd	SPB.- -	S78A	12AXD-38	10	I	Daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22	013	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-6 (of 8)

Connector: 211121 J22

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)

Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
					Shd	Cable Twist						
047	SPIRE PMW Ch33 to 35 . SHD03	SPB.- -	S078	12AXD-38	10	I	Cable S078 inner Shd daisy ch to Pin 47 (A3)	HSJFP	75	121210 P22		
-	Cable S078 12 AXD Outer Shield						Cable S078 outer Shd con to Busbar (Faraday)					
004	SPIRE PMW B04 GND Wire A4	SPX.- -	S444	010B0-30			Con to Cable from P21 GND/Shds	HSJFP	75	121210 P21	13	
013	SPIRE PMW Ch37 to 40 . 37+	SPB.- -	S083	12AXD-38	12	J	PMW-A7	HSJFP	75	121210 P21	001	
012	SPIRE PMW Ch37 to 40 . 37-	SPB.- -	S083	12AXD-38	12	J		HSJFP	75	121210 P21	014	
004	SPIRE PMW Ch37 to 40 . 37gnd	SPB.- -	S083	12AXD-38	12	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	
021	SPIRE PMW Ch37 to 40 . 38+	SPB.- -	S083	12AXD-38	12	J	PMW-A6	HSJFP	75	121210 P21	002	
020	SPIRE PMW Ch37 to 40 . 38-	SPB.- -	S083	12AXD-38	12	J		HSJFP	75	121210 P21	015	
004	SPIRE PMW Ch37 to 40 . 38gnd	SPB.- -	S083	12AXD-38	12	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	
031	SPIRE PMW Ch37 to 40 . 39+	SPB.- -	S083	12AXD-38	12	J	PMW-B6	HSJFP	75	121210 P21	003	
043	SPIRE PMW Ch37 to 40 . 39-	SPB.- -	S083	12AXD-38	12	J		HSJFP	75	121210 P21	016	
004	SPIRE PMW Ch37 to 40 . 39gnd	SPB.- -	S083	12AXD-38	12	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	
042	SPIRE PMW Ch37 to 40 . 40+	SPB.- -	S083	12AXD-38	12	J	PMW-C7	HSJFP	75	121210 P21	004	
054	SPIRE PMW Ch37 to 40 . 40-	SPB.- -	S083	12AXD-38	12	J		HSJFP	75	121210 P21	017	
004	SPIRE PMW Ch37 to 40 . 40gnd	SPB.- -	S083	12AXD-38	12	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	
004	SPIRE PMW Ch37 to 40 . SHD01	SPB.- -	S083	12AXD-38	12	J	Cable S083 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	
-	Cable S083 12 AXD Outer Shield						Cable S083 outer Shd con to Busbar (Faraday)					
010	SPIRE PMW Ch41 to 44 . 41+	SPB.- -	S081	12AXD-38	13	K	PMW-A5	HSJFP	75	121210 P21	005	
011	SPIRE PMW Ch41 to 44 . 41-	SPB.- -	S081	12AXD-38	13	K		HSJFP	75	121210 P21	018	
004	SPIRE PMW Ch41 to 44 . 41gnd	SPB.- -	S081	12AXD-38	13	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	
019	SPIRE PMW Ch41 to 44 . 42+	SPB.- -	S081	12AXD-38	13	K	PMW-B5	HSJFP	75	121210 P21	006	
029	SPIRE PMW Ch41 to 44 . 42-	SPB.- -	S081	12AXD-38	13	K		HSJFP	75	121210 P21	019	
004	SPIRE PMW Ch41 to 44 . 42gnd	SPB.- -	S081	12AXD-38	13	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	



# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 211121 J22  
Item: CWUJCR

Function: UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)  
Location: 33 / CW / I/F CB Top PFM (CWUJCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

EMC-Category: 2C/Sig H in Cryostat

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
041	SPIRE PMW Ch41 to 44 . 43+	SPB.-	-	S081	12AXD-38	13	K	PMW-C6	HSJFP	75	121210 P21	020	
030	SPIRE PMW Ch41 to 44 . 43-	SPB.-	-	S081	12AXD-38	13	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	007	
004	SPIRE PMW Ch41 to 44 . 43gnd	SPB.-	-	S081	12AXD-38	13	K		HSJFP	75	121210 P21	013	
053	SPIRE PMW Ch41 to 44 . 44+	SPB.-	-	S081	12AXD-38	13	K	PMW-D6	HSJFP	75	121210 P21	021	
052	SPIRE PMW Ch41 to 44 . 44-	SPB.-	-	S081	12AXD-38	13	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	008	
004	SPIRE PMW Ch41 to 44 . 44gnd	SPB.-	-	S081	12AXD-38	13	K		HSJFP	75	121210 P21	013	
004	SPIRE PMW Ch41 to 44 . SHD02	SPB.-	-	S081	12AXD-38	13	K	Cable S081 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	
-	Cable S081 12 AXD Outer Shield							Cable S081 outer Shd con to Busbar (Faraday)					
009	SPIRE PMW Ch45 to 48 . 45+	SPB.-	-	S082	12AXD-38	14	L	PMW-B4	HSJFP	75	121210 P21	022	
017	SPIRE PMW Ch45 to 48 . 45-	SPB.-	-	S082	12AXD-38	14	L	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	009	
004	SPIRE PMW Ch45 to 48 . 45gnd	SPB.-	-	S082	12AXD-38	14	L		HSJFP	75	121210 P21	013	
018	SPIRE PMW Ch45 to 48 . 46+	SPB.-	-	S082	12AXD-38	14	L	PMW-C5	HSJFP	75	121210 P21	023	
028	SPIRE PMW Ch45 to 48 . 46-	SPB.-	-	S082	12AXD-38	14	L	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	010	
004	SPIRE PMW Ch45 to 48 . 46gnd	SPB.-	-	S082	12AXD-38	14	L		HSJFP	75	121210 P21	013	
016	SPIRE PMW Ch45 to 48 . 47+	SPB.-	-	S082	12AXD-38	14	L	PMW-D4	HSJFP	75	121210 P21	024	
027	SPIRE PMW Ch45 to 48 . 47-	SPB.-	-	S082	12AXD-38	14	L	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	011	
004	SPIRE PMW Ch45 to 48 . 47gnd	SPB.-	-	S082	12AXD-38	14	L		HSJFP	75	121210 P21	013	
040	SPIRE PMW Ch45 to 48 . 48+	SPB.-	-	S082	12AXD-38	14	L	PMW-A4	HSJFP	75	121210 P21	025	
039	SPIRE PMW Ch45 to 48 . 48-	SPB.-	-	S082	12AXD-38	14	L	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	012	
004	SPIRE PMW Ch45 to 48 . 48gnd	SPB.-	-	S082	12AXD-38	14	L		HSJFP	75	121210 P21	013	
004	SPIRE PMW Ch45 to 48 . SHD03	SPB.-	-	S082	12AXD-38	14	L	Cable S082 inner Shd Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P21	013	
-	Cable S082 12 AXD Outer Shield							Cable S082 outer Shd con to Busbar (Faraday)					
001	Faraday Pins							Connected to Busbar					
002	Faraday Pins							Connected to Busbar					
003	Faraday Pins							Connected to Busbar					
005	Faraday Pins							Connected to Busbar					
006	Faraday Pins							Connected to Busbar					

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-8 (of 8)

**Connector:** 211121 J22

**Item:** CVUUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)  
**Location:** 33 / CVV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
007	Faraday Pins							Conected to Busbar					
008	Faraday Pins							Conected to Busbar					
014	Faraday Pins							Conected to Busbar					
015	Faraday Pins							Conected to Busbar					
024	Faraday Pins							Conected to Busbar					
025	Faraday Pins							Conected to Busbar					
035	Faraday Pins							Conected to Busbar					
082	Faraday Pins							Conected to Busbar					
093	Faraday Pins							Conected to Busbar					
094	Faraday Pins							Conected to Busbar					
104	Faraday Pins							Conected to Busbar					
105	Faraday Pins							Conected to Busbar					
114	Faraday Pins							Conected to Busbar					
115	Faraday Pins							Conected to Busbar					
121	Faraday Pins							Conected to Busbar					
122	Faraday Pins							Conected to Busbar					
123	Faraday Pins							Conected to Busbar					
124	Faraday Pins							Conected to Busbar					
125	Faraday Pins							Conected to Busbar					
126	Faraday Pins							Conected to Busbar					
127	Faraday Pins							Conected to Busbar					
-	CH Connector Housing							CH isolated from Faraday Shd					
-								No Overall Shd at Junction side					
-								Bundles isolated from S/C structure					



**Astrium GmbH**  
**Project: HERSCHEL**

For wiring schematic  
 see SIH-CS-04 CVVUCR J22

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-1 (of 8)

**Connector:** 211121 J23  
**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PMW B05 GND WIRE A1	SPX.- -	S451	010B0-30				Con to Cable from P17 GND/Shds	HSJFP	75	121210 P17	013	
026	SPIRE PMW Ch01-04 . 1+	SPB.- -	S085	12AXD-38	1	A		PMW-A13	HSJFP	75	121210 P17	001	
037	SPIRE PMW Ch01-04 . 1-	SPB.- -	S085	12AXD-38	1	A			HSJFP	75	121210 P17	014	
036	SPIRE PMW Ch01-04 . 1gnd	SPB.- -	S085	12AXD-38	1	A		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
038	SPIRE PMW Ch01-04 . 2+	SPB.- -	S085	12AXD-38	1	A		PMW-T1	HSJFP	75	121210 P17	002	
049	SPIRE PMW Ch01-04 . 2-	SPB.- -	S085	12AXD-38	1	A			HSJFP	75	121210 P17	015	
036	SPIRE PMW Ch01-04 . 2gnd	SPB.- -	S085	12AXD-38	1	A		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
048	SPIRE PMW Ch01-04 . 3+	SPB.- -	S085	12AXD-38	1	A		PMW-B12	HSJFP	75	121210 P17	003	
060	SPIRE PMW Ch01-04 . 3-	SPB.- -	S085	12AXD-38	1	A			HSJFP	75	121210 P17	016	
036	SPIRE PMW Ch01-04 . 3gnd	SPB.- -	S085	12AXD-38	1	A		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
059	SPIRE PMW Ch01-04 . 4+	SPB.- -	S085	12AXD-38	1	A		PMW-C13	HSJFP	75	121210 P17	004	
071	SPIRE PMW Ch01-04 . 4-	SPB.- -	S085	12AXD-38	1	A			HSJFP	75	121210 P17	017	
036	SPIRE PMW Ch01-04 . 4gnd	SPB.- -	S085	12AXD-38	1	A		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
036	SPIRE PMW Ch01-04 . SHD01	SPB.- -	S085	12AXD-38	1	A		Cable S085 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
-	Cable S085 outer Shield							Cable S085 outer Shd con to Busbar (Faraday)					
050	SPIRE PMW Ch05-08 . 5+	SPB.- -	S086	12AXD-38	2	B		PMW-A12	HSJFP	75	121210 P17	005	
061	SPIRE PMW Ch05-08 . 5-	SPB.- -	S086	12AXD-38	2	B			HSJFP	75	121210 P17	018	
036	SPIRE PMW Ch05-08 . 5gnd	SPB.- -	S086	12AXD-38	2	B		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
062	SPIRE PMW Ch05-08 . 6+	SPB.- -	S086	12AXD-38	2	B		PMW-D12	HSJFP	75	121210 P17	006	
051	SPIRE PMW Ch05-08 . 6-	SPB.- -	S086	12AXD-38	2	B			HSJFP	75	121210 P17	019	
036	SPIRE PMW Ch05-08 . 6gnd	SPB.- -	S086	12AXD-38	2	B		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
063	SPIRE PMW Ch05-08 . 7+	SPB.- -	S086	12AXD-38	2	B		PMW-C12	HSJFP	75	121210 P17	020	
075	SPIRE PMW Ch05-08 . 7-	SPB.- -	S086	12AXD-38	2	B			HSJFP	75	121210 P17	007	
036	SPIRE PMW Ch05-08 . 7gnd	SPB.- -	S086	12AXD-38	2	B		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
074	SPIRE PMW Ch05-08 . 8+	SPB.- -	S086	12AXD-38	2	B		PMW-B11	HSJFP	75	121210 P17	021	
073	SPIRE PMW Ch05-08 . 8-	SPB.- -	S086	12AXD-38	2	B			HSJFP	75	121210 P17	008	
036	SPIRE PMW Ch05-08 . 8gnd	SPB.- -	S086	12AXD-38	2	B		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	

# Pin Allocation List (Harness)

Connector: 211121 J23

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFT1r 199.2° (SPIRE XS-05JFP17,18,19,20)  
Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PMW Ch05-08 . SHD02	SPB.-	-	S086	12AXD-38	2	B	Cable S086 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
-	Cable S086 outer Shield							Cable S086 outer Shd con to Busbar (Faraday)					
083	SPIRE PMW Ch09-12 . 9+	SPB.-	-	S087	12AXD-38	3	C	PMW-A11	HSJFP	75	121210 P17	022	
072	SPIRE PMW Ch09-12 . 9-	SPB.-	-	S087	12AXD-38	3	C		HSJFP	75	121210 P17	009	
036	SPIRE PMW Ch09-12 . 9gnd	SPB.-	-	S087	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
095	SPIRE PMW Ch09-12 . 10+	SPB.-	-	S087	12AXD-38	3	C	PMW-A13	HSJFP	75	121210 P17	023	
084	SPIRE PMW Ch09-12 . 10-	SPB.-	-	S087	12AXD-38	3	C		HSJFP	75	121210 P17	010	
036	SPIRE PMW Ch09-12 . 10gnd	SPB.-	-	S087	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
096	SPIRE PMW Ch09-12 . 11+	SPB.-	-	S087	12AXD-38	3	C	PMW-D11	HSJFP	75	121210 P17	024	
085	SPIRE PMW Ch09-12 . 11-	SPB.-	-	S087	12AXD-38	3	C		HSJFP	75	121210 P17	011	
036	SPIRE PMW Ch09-12 . 11gnd	SPB.-	-	S087	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
106	SPIRE PMW Ch09-12 . 12+	SPB.-	-	S087	12AXD-38	3	C	PMW-C11	HSJFP	75	121210 P17	025	
107	SPIRE PMW Ch09-12 . 12-	SPB.-	-	S087	12AXD-38	3	C		HSJFP	75	121210 P17	012	
036	SPIRE PMW Ch09-12 . 12gnd	SPB.-	-	S087	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
036	SPIRE PMW Ch09-12 . SHD03	SPB.-	-	S087	12AXD-38	3	C	Cable S087 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P17	013	
-	Cable S087 outer Shield							Cable S087 outer Shd con to Busbar (Faraday)					
128	SPIRE PMW B05 GND WIRE A2	SPX.-	-	S452	010B0-30			Con to Cable from P18 GND/Shds	HSJFP	75	121210 P18	013	
086	SPIRE PMW Ch13-16 . 13+	SPB.-	-	S090	12AXD-38	4	D	PMW-B10	HSJFP	75	121210 P18	001	
087	SPIRE PMW Ch13-16 . 13-	SPB.-	-	S090	12AXD-38	4	D		HSJFP	75	121210 P18	014	
128	SPIRE PMW Ch13-16 . 13gnd	SPB.-	-	S090	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	013	
097	SPIRE PMW Ch13-16 . 14+	SPB.-	-	S090	12AXD-38	4	D	PMW-A10	HSJFP	75	121210 P18	002	
098	SPIRE PMW Ch13-16 . 14-	SPB.-	-	S090	12AXD-38	4	D		HSJFP	75	121210 P18	015	
128	SPIRE PMW Ch13-16 . 14gnd	SPB.-	-	S090	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	013	

# Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 8)

Connector: 211121 J23

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
108	SPIRE PMW Ch13-16 . 15+	SPB.-	-	S090	12AXD-38	4	D	PMW-D10	HSJFP	75	121210 P18	003	
109	SPIRE PMW Ch13-16 . 15-	SPB.-	-	S090	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	016	
128	SPIRE PMW Ch13-16 . 15gnd	SPB.-	-	S090	12AXD-38	4	D		HSJFP	75	121210 P18	013	
116	SPIRE PMW Ch13-16 . 16+	SPB.-	-	S090	12AXD-38	4	D	PMW-B9	HSJFP	75	121210 P18	004	
117	SPIRE PMW Ch13-16 . 16-	SPB.-	-	S090	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	017	
128	SPIRE PMW Ch13-16 . 16gnd	SPB.-	-	S090	12AXD-38	4	D		HSJFP	75	121210 P18	013	
128	SPIRE PMW Ch13-16 . SHD01	SPB.-	-	S090	12AXD-38	4	D	Cable S090 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	013	
-	Cable S090 outer Shield							Cable S090 outer Shd con to Busbar (Faraday)					
055	SPIRE PMW Ch17-20 . 17+	SPB.-	-	S091	12AXD-38	5	E	PMW-C10	HSJFP	75	121210 P18	005	
066	SPIRE PMW Ch17-20 . 17-	SPB.-	-	S091	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	018	
128	SPIRE PMW Ch17-20 . 17gnd	SPB.-	-	S091	12AXD-38	5	E		HSJFP	75	121210 P18	013	
067	SPIRE PMW Ch17-20 . 18+	SPB.-	-	S091	12AXD-38	5	E	PMW-C9	HSJFP	75	121210 P18	006	
078	SPIRE PMW Ch17-20 . 18-	SPB.-	-	S091	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	019	
128	SPIRE PMW Ch17-20 . 18gnd	SPB.-	-	S091	12AXD-38	5	E		HSJFP	75	121210 P18	013	
076	SPIRE PMW Ch17-20 . 19+	SPB.-	-	S091	12AXD-38	5	E	PMW-A9	HSJFP	75	121210 P18	020	
077	SPIRE PMW Ch17-20 . 19-	SPB.-	-	S091	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	007	
128	SPIRE PMW Ch17-20 . 19gnd	SPB.-	-	S091	12AXD-38	5	E		HSJFP	75	121210 P18	013	
088	SPIRE PMW Ch17-20 . 20+	SPB.-	-	S091	12AXD-38	5	E	PMW-B8	HSJFP	75	121210 P18	021	
089	SPIRE PMW Ch17-20 . 20-	SPB.-	-	S091	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	008	
128	SPIRE PMW Ch17-20 . 20gnd	SPB.-	-	S091	12AXD-38	5	E		HSJFP	75	121210 P18	013	
128	SPIRE PMW Ch17-20 . SHD02	SPB.-	-	S091	12AXD-38	5	E	Cable S091 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	013	
-	Cable S091 outer Shield							Cable S091 outer Shd con to Busbar (Faraday)					
099	SPIRE PMW Ch21-24 . 21+	SPB.-	-	S092	12AXD-38	6	F	PMW-B8	HSJFP	75	121210 P18	022	
100	SPIRE PMW Ch21-24 . 21-	SPB.-	-	S092	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	009	
128	SPIRE PMW Ch21-24 . 21gnd	SPB.-	-	S092	12AXD-38	6	F		HSJFP	75	121210 P18	013	
110	SPIRE PMW Ch21-24 . 22+	SPB.-	-	S092	12AXD-38	6	F	PMW-D8	HSJFP	75	121210 P18	023	

**Pin Allocation List**  
(Harness)**Connector:** 211121 J23**Item:** CVUUCR**EMC-Category:** 2C/Sig H in Cryostat**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)**Conn.-Type:** 197-011P24-35P (Junct.)**Backshell:** 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
111	SPIRE PMW Ch21-24 . 22-	SPB.-	-	S092	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	010	
128	SPIRE PMW Ch21-24 . 22gnd	SPB.-	-	S092	12AXD-38	6	F		HSJFP	75	121210 P18	013	
118	SPIRE PMW Ch21-24 . 23+	SPB.-	-	S092	12AXD-38	6	F	PMW-C8	HSJFP	75	121210 P18	024	
119	SPIRE PMW Ch21-24 . 23-	SPB.-	-	S092	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	011	
128	SPIRE PMW Ch21-24 . 23gnd	SPB.-	-	S092	12AXD-38	6	F		HSJFP	75	121210 P18	013	
112	SPIRE PMW Ch21-24 . 24+	SPB.-	-	S092	12AXD-38	6	F	PMW-B7	HSJFP	75	121210 P18	025	
120	SPIRE PMW Ch21-24 . 24-	SPB.-	-	S092	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	012	
128	SPIRE PMW Ch21-24 . 24gnd	SPB.-	-	S092	12AXD-38	6	F		HSJFP	75	121210 P18	013	
128	SPIRE PMW Ch21-24 . SHD03	SPB.-	-	S092	12AXD-38	6	F	Cable S092 inner Shd Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P18	013	
-	Cable S092 outer Shield							Cable S092 outer Shd con to Busbar (Faraday)					
047	SPIRE PMW B05 GND WIRE A3	SPX.-	-	S453	010B0-30			Con to Cable from P19 GND/Shds	HSJFP	75	121210 P19	013	
090	SPIRE PMW Ch25-28 . 25+	SPB.-	-	S094	12AXD-38	7	G	PMW-R1	HSJFP	75	121210 P19	001	
079	SPIRE PMW Ch25-28 . 25-	SPB.-	-	S094	12AXD-38	7	G	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	014	
047	SPIRE PMW Ch25-28 . 25gnd	SPB.-	-	S094	12AXD-38	7	G		HSJFP	75	121210 P19	013	
102	SPIRE PMW Ch25-28 . 26+	SPB.-	-	S094	12AXD-38	7	G	PMW-G1	HSJFP	75	121210 P19	002	
101	SPIRE PMW Ch25-28 . 26-	SPB.-	-	S094	12AXD-38	7	G	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	015	
047	SPIRE PMW Ch25-28 . 26gnd	SPB.-	-	S094	12AXD-38	7	G		HSJFP	75	121210 P19	013	
092	SPIRE PMW Ch25-28 . 27+	SPB.-	-	S094	12AXD-38	7	G	PMW-T2	HSJFP	75	121210 P19	003	
091	SPIRE PMW Ch25-28 . 27-	SPB.-	-	S094	12AXD-38	7	G	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	016	
047	SPIRE PMW Ch25-28 . 27gnd	SPB.-	-	S094	12AXD-38	7	G		HSJFP	75	121210 P19	013	
103	SPIRE PMW Ch25-28 . 28+	SPB.-	-	S094	12AXD-38	7	G	PMW-E1	HSJFP	75	121210 P19	004	
113	SPIRE PMW Ch25-28 . 28-	SPB.-	-	S094	12AXD-38	7	G	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	017	
047	SPIRE PMW Ch25-28 . 28gnd	SPB.-	-	S094	12AXD-38	7	G		HSJFP	75	121210 P19	013	
047	SPIRE PMW Ch25-28 . SHD01	SPB.-	-	S094	12AXD-38	7	G	Cable S094 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
-	Cable S094 outer Shield							Cable S094 outer Shd con to Busbar (Faraday)					

# Pin Allocation List

## (Harness)

**Connector:** 211121 J23

**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
058	SPIRE PMW Ch29-32 . 29+	SPB.-	-	S095	12AXD-38	8	H	PMW-D1	HSJFP	75	121210 P19	005	
046	SPIRE PMW Ch29-32 . 29-	SPB.-	-	S095	12AXD-38	8	H		HSJFP	75	121210 P19	018	
047	SPIRE PMW Ch29-32 . 29gnd	SPB.-	-	S095	12AXD-38	8	H	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
068	SPIRE PMW Ch29-32 . 30+	SPB.-	-	S095	12AXD-38	8	H	PMW-F1	HSJFP	75	121210 P19	006	
057	SPIRE PMW Ch29-32 . 30-	SPB.-	-	S095	12AXD-38	8	H		HSJFP	75	121210 P19	019	
047	SPIRE PMW Ch29-32 . 30gnd	SPB.-	-	S095	12AXD-38	8	H	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
069	SPIRE PMW Ch29-32 . 31+	SPB.-	-	S095	12AXD-38	8	H	PMW-E2	HSJFP	75	121210 P19	020	
080	SPIRE PMW Ch29-32 . 31-	SPB.-	-	S095	12AXD-38	8	H		HSJFP	75	121210 P19	007	
047	SPIRE PMW Ch29-32 . 31gnd	SPB.-	-	S095	12AXD-38	8	H	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
070	SPIRE PMW Ch29-32 . 32+	SPB.-	-	S095	12AXD-38	8	H	PMW-G2	HSJFP	75	121210 P19	021	
081	SPIRE PMW Ch29-32 . 32-	SPB.-	-	S095	12AXD-38	8	H		HSJFP	75	121210 P19	008	
047	SPIRE PMW Ch29-32 . 32gnd	SPB.-	-	S095	12AXD-38	8	H	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
047	SPIRE PMW Ch29-32 . SHD02	SPB.-	-	S095	12AXD-38	8	H	Cable S095 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
-	Cable S095 outer Shield							Cable S095 outer Shd con to Busbar (Faraday)					
023	SPIRE PMW Ch33-36 . 33+	SPB.-	-	S096	12AXD-38	9	I	PMW-F2	HSJFP	75	121210 P19	022	
034	SPIRE PMW Ch33-36 . 33-	SPB.-	-	S096	12AXD-38	9	I		HSJFP	75	121210 P19	009	
047	SPIRE PMW Ch33-36 . 33gnd	SPB.-	-	S096	12AXD-38	9	I	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
033	SPIRE PMW Ch33-36 . 34+	SPB.-	-	S096	12AXD-38	9	I	PMW-G3	HSJFP	75	121210 P19	023	
045	SPIRE PMW Ch33-36 . 34-	SPB.-	-	S096	12AXD-38	9	I		HSJFP	75	121210 P19	010	
047	SPIRE PMW Ch33-36 . 34gnd	SPB.-	-	S096	12AXD-38	9	I	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
044	SPIRE PMW Ch33-36 . 35+	SPB.-	-	S096	12AXD-38	9	I	PMW-E3	HSJFP	75	121210 P19	024	
056	SPIRE PMW Ch33-36 . 35-	SPB.-	-	S096	12AXD-38	9	I		HSJFP	75	121210 P19	011	
047	SPIRE PMW Ch33-36 . 35gnd	SPB.-	-	S096	12AXD-38	9	I	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
022	SPIRE PMW Ch33-36 . 36+	SPB.-	-	S096	12AXD-38	9	I	PMW-D3	HSJFP	75	121210 P19	025	
032	SPIRE PMW Ch33-36 . 36-	SPB.-	-	S096	12AXD-38	9	I		HSJFP	75	121210 P19	012	
047	SPIRE PMW Ch33-36 . 36gnd	SPB.-	-	S096	12AXD-38	9	I	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	



**Pin Allocation List**  
(Harness)**Connector:** 211121 J23**Item:** CVUUCR**EMC-Category:** 2C/Sig H in Cryostat**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)**Conn.-Type:** 197-011P24-35P (Junct.)**Backshell:** 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
047	SPIRE PMW Ch33-36 . SHD03	SPB.-	-	S096	12AXD-38	9	1	Cable S096 inner Shd Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P19	013	
-	Cable S096 outer Shield							Cable S096 outer Shd con to Busbar (Faraday)					
-													
004	SPIRE PMW B05 GND WIRE A4	SPX.-	-	S454	010B0-30			Con to Cable from P20 GND/Shds	HSJFP	75	121210 P20	013	
-													
013	SPIRE PMW Ch37-40 . 37+	SPB.-	-	S099	12AXD-38	10	J	PMW-F3	HSJFP	75	121210 P20	001	
012	SPIRE PMW Ch37-40 . 37-	SPB.-	-	S099	12AXD-38	10	J		HSJFP	75	121210 P20	014	
004	SPIRE PMW Ch37-40 . 37gnd	SPB.-	-	S099	12AXD-38	10	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P20	013	
-													
021	SPIRE PMW Ch37-40 . 38+	SPB.-	-	S099	12AXD-38	10	J	PMW-G4	HSJFP	75	121210 P20	002	
020	SPIRE PMW Ch37-40 . 38-	SPB.-	-	S099	12AXD-38	10	J		HSJFP	75	121210 P20	015	
004	SPIRE PMW Ch37-40 . 38gnd	SPB.-	-	S099	12AXD-38	10	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P20	013	
-													
031	SPIRE PMW Ch37-40 . 39+	SPB.-	-	S099	12AXD-38	10	J	PMW-E4	HSJFP	75	121210 P20	003	
043	SPIRE PMW Ch37-40 . 39-	SPB.-	-	S099	12AXD-38	10	J		HSJFP	75	121210 P20	016	
004	SPIRE PMW Ch37-40 . 39gnd	SPB.-	-	S099	12AXD-38	10	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P20	013	
-													
042	SPIRE PMW Ch37-40 . 40+	SPB.-	-	S099	12AXD-38	10	J	PMW-F4	HSJFP	75	121210 P20	004	
054	SPIRE PMW Ch37-40 . 40-	SPB.-	-	S099	12AXD-38	10	J		HSJFP	75	121210 P20	017	
004	SPIRE PMW Ch37-40 . 40gnd	SPB.-	-	S099	12AXD-38	10	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P20	013	
004	SPIRE PMW Ch37-40 . SHD01	SPB.-	-	S099	12AXD-38	10	J	Cable S099 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P20	013	
-	Cable S099 outer Shield							Cable S099 outer Shd con to Busbar (Faraday)					
-													
-													
010	SPIRE PMW Ch41-44 . 41+	SPB.-	-	S100	12AXD-38	11	K	PMW-E5	HSJFP	75	121210 P20	005	
011	SPIRE PMW Ch41-44 . 41-	SPB.-	-	S100	12AXD-38	11	K		HSJFP	75	121210 P20	018	
004	SPIRE PMW Ch41-44 . 41gnd	SPB.-	-	S100	12AXD-38	11	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P20	013	
-													
019	SPIRE PMW Ch41-44 . 42+	SPB.-	-	S100	12AXD-38	11	K	PMW-D5	HSJFP	75	121210 P20	006	
029	SPIRE PMW Ch41-44 . 42-	SPB.-	-	S100	12AXD-38	11	K		HSJFP	75	121210 P20	019	
004	SPIRE PMW Ch41-44 . 42gnd	SPB.-	-	S100	12AXD-38	11	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P20	013	

**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-7 (of 8)

**Connector:** 211121 J23  
**Item:** CWVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)  
**Location:** 33 / CW / I/F CB Top PFM (CWVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring			Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd	Cable	Twist						
041	SPIRE PMW Ch41-44 . 43+	SPB.-	-	S100	12AXD-38	11	K	PMW-F5		HSJFP	75	121210 P20	020		
030	SPIRE PMW Ch41-44 . 43-	SPB.-	-	S100	12AXD-38	11	K	Daisy ch to Pin 004 (A4)		HSJFP	75	121210 P20	007		
004	SPIRE PMW Ch41-44 . 43gnd	SPB.-	-	S100	12AXD-38	11	K			HSJFP	75	121210 P20	013		
053	SPIRE PMW Ch41-44 . 44+	SPB.-	-	S100	12AXD-38	11	K	PMW-G5		HSJFP	75	121210 P20	021		
052	SPIRE PMW Ch41-44 . 44-	SPB.-	-	S100	12AXD-38	11	K	Daisy ch to Pin 004 (A4)		HSJFP	75	121210 P20	008		
004	SPIRE PMW Ch41-44 . 44gnd	SPB.-	-	S100	12AXD-38	11	K	Cable S100 inner Shd daisy ch to Pin 004 (A4)		HSJFP	75	121210 P20	013		
004	SPIRE PMW Ch41-44 . SHD02	SPB.-	-	S100	12AXD-38	11	K	Cable S100 outer Shd con to Busbar (Faraday)		HSJFP	75	121210 P20	013		
-	Cable S100 outer Shield														
009	SPIRE PMW Ch45-48 . 45+	SPB.-	-	S101	12AXD-38	12	L	PMW-E6		HSJFP	75	121210 P20	022		
017	SPIRE PMW Ch45-48 . 45-	SPB.-	-	S101	12AXD-38	12	L	Daisy ch to Pin 004 (A4)		HSJFP	75	121210 P20	009		
004	SPIRE PMW Ch45-48 . 45gnd	SPB.-	-	S101	12AXD-38	12	L			HSJFP	75	121210 P20	013		
018	SPIRE PMW Ch45-48 . 46+	SPB.-	-	S101	12AXD-38	12	L	PMW-G6		HSJFP	75	121210 P20	023		
028	SPIRE PMW Ch45-48 . 46-	SPB.-	-	S101	12AXD-38	12	L	Daisy ch to Pin 004 (A4)		HSJFP	75	121210 P20	010		
004	SPIRE PMW Ch45-48 . 46gnd	SPB.-	-	S101	12AXD-38	12	L			HSJFP	75	121210 P20	013		
016	SPIRE PMW Ch45-48 . 47+	SPB.-	-	S101	12AXD-38	12	L	PMW-F6		HSJFP	75	121210 P20	024		
027	SPIRE PMW Ch45-48 . 47-	SPB.-	-	S101	12AXD-38	12	L	Daisy ch to Pin 004 (A4)		HSJFP	75	121210 P20	011		
004	SPIRE PMW Ch45-48 . 47gnd	SPB.-	-	S101	12AXD-38	12	L			HSJFP	75	121210 P20	013		
040	SPIRE PMW Ch45-48 . 48+	SPB.-	-	S101	12AXD-38	12	L	PMW-G7		HSJFP	75	121210 P20	025		
039	SPIRE PMW Ch45-48 . 48-	SPB.-	-	S101	12AXD-38	12	L	Daisy ch to Pin 004 (A4)		HSJFP	75	121210 P20	012		
004	SPIRE PMW Ch45-48 . 48gnd	SPB.-	-	S101	12AXD-38	12	L	Cable S101 inner Shd daisy ch to Pin 004 (A4)		HSJFP	75	121210 P20	013		
004	SPIRE PMW Ch45-48 . SHD03	SPB.-	-	S101	12AXD-38	12	L	Cable S101 outer Shd con to Busbar (Faraday)		HSJFP	75	121210 P20	013		
-	Cable S101 outer Shield														
001	Faraday Pins							Connected to Busbar							
002	Faraday Pins							Connected to Busbar							
003	Faraday Pins							Connected to Busbar							
005	Faraday Pins							Connected to Busbar							
006	Faraday Pins							Connected to Busbar							

**Astrium GmbH**  
 Project: **HERSCHEL**

# Pin Allocation List

(Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-8 (of 8)

**Connector:** 211121 J23  
**Item:** CWUUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)  
**Location:** 33 / CWV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
007	Faraday Pins							Connected to Busbar					
008	Faraday Pins							Connected to Busbar					
014	Faraday Pins							Connected to Busbar					
015	Faraday Pins							Connected to Busbar					
024	Faraday Pins							Connected to Busbar					
025	Faraday Pins							Connected to Busbar					
035	Faraday Pins							Connected to Busbar					
082	Faraday Pins							Connected to Busbar					
093	Faraday Pins							Connected to Busbar					
094	Faraday Pins							Connected to Busbar					
104	Faraday Pins							Connected to Busbar					
105	Faraday Pins							Connected to Busbar					
114	Faraday Pins							Connected to Busbar					
115	Faraday Pins							Connected to Busbar					
121	Faraday Pins							Connected to Busbar					
122	Faraday Pins							Connected to Busbar					
123	Faraday Pins							Connected to Busbar					
124	Faraday Pins							Connected to Busbar					
125	Faraday Pins							Connected to Busbar					
126	Faraday Pins							Connected to Busbar					
127	Faraday Pins							Connected to Busbar					
-	Connector Housing							CH isolated from Farady					
-								No Overall Shd at Junction Side					
-								Bundles isolated from S/C Structure					



# Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 9)

For wiring Schematic  
See SIH-CS-04 CUVUCR J22

Connector: 211121 J24  
Item: CUVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)  
Location: 33 / CWV I/F CB Top PFM (CWUUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PLW B06 GND WIRE A1	SPX.- -	S461	010B0-30			Con to Cable from P13 GND/Shds	HSJFP	75	121210 P13	013	
026	SPIRE PLW Ch01-04 . 1+	SPA.- -	S104	12AXD-38	1 A		PLW-R1	HSJFP	75	121210 P13	001	
037	SPIRE PLW Ch01-04 . 1-	SPA.- -	S104	12AXD-38	1 A			HSJFP	75	121210 P13	014	
036	SPIRE PLW Ch01-04 . 1gnd	SPA.- -	S104	12AXD-38	1 A		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
038	SPIRE PLW Ch01-04 . 2+	SPA.- -	S104	12AXD-38	1 A		PLW-A8	HSJFP	75	121210 P13	002	
049	SPIRE PLW Ch01-04 . 2-	SPA.- -	S104	12AXD-38	1 A			HSJFP	75	121210 P13	015	
036	SPIRE PLW Ch01-04 . 2gnd	SPA.- -	S104	12AXD-38	1 A		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
048	SPIRE PLW Ch01-04 . 3+	SPA.- -	S104	12AXD-38	1 A		PLW-A7	HSJFP	75	121210 P13	003	
060	SPIRE PLW Ch01-04 . 3-	SPA.- -	S104	12AXD-38	1 A			HSJFP	75	121210 P13	016	
036	SPIRE PLW Ch01-04 . 3gnd	SPA.- -	S104	12AXD-38	1 A		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
059	SPIRE PLW Ch01-04 . 4+	SPA.- -	S104	12AXD-38	1 A		PLW-A6	HSJFP	75	121210 P13	004	
071	SPIRE PLW Ch01-04 . 4-	SPA.- -	S104	12AXD-38	1 A			HSJFP	75	121210 P13	017	
036	SPIRE PLW Ch01-04 . 4gnd	SPA.- -	S104	12AXD-38	1 A		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
036	SPIRE PLW Ch01-04 . SHD01	SPA.- -	S104	12AXD-38	1 A		Cable S104 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
-	Cabel S104 outer Shield						Cabel S104 outer Shd co to Busbar (Faraday)					
050	SPIRE PLW Ch05-08 . 5+	SPA.- -	S105	12AXD-38	2 B		PLW-A9	HSJFP	75	121210 P13	005	
061	SPIRE PLW Ch05-08 . 5-	SPA.- -	S105	12AXD-38	2 B			HSJFP	75	121210 P13	018	
036	SPIRE PLW Ch05-08 . 5gnd	SPA.- -	S105	12AXD-38	2 B		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
062	SPIRE PLW Ch05-08 . 6+	SPA.- -	S105	12AXD-38	2 B		PLW-C9	HSJFP	75	121210 P13	006	
051	SPIRE PLW Ch05-08 . 6-	SPA.- -	S105	12AXD-38	2 B			HSJFP	75	121210 P13	019	
036	SPIRE PLW Ch05-08 . 6gnd	SPA.- -	S105	12AXD-38	2 B		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
063	SPIRE PLW Ch05-08 . 7+	SPA.- -	S105	12AXD-38	2 B		PLW-B8	HSJFP	75	121210 P13	020	
075	SPIRE PLW Ch05-08 . 7-	SPA.- -	S105	12AXD-38	2 B			HSJFP	75	121210 P13	007	
036	SPIRE PLW Ch05-08 . 7gnd	SPA.- -	S105	12AXD-38	2 B		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
074	SPIRE PLW Ch05-08 . 8+	SPA.- -	S105	12AXD-38	2 B		PLW-B7	HSJFP	75	121210 P13	021	
073	SPIRE PLW Ch05-08 . 8-	SPA.- -	S105	12AXD-38	2 B			HSJFP	75	121210 P13	008	
036	SPIRE PLW Ch05-08 . 8gnd	SPA.- -	S105	12AXD-38	2 B		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	

**Pin Allocation List**  
(Harness)**Connector:** 211121 J24**Item:** CVVUCR**EMC-Category:** 2C/Sig H in Cryostat**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)**Conn.-Type:** 197-011P24-35P (Junct.)**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
036	SPIRE PLW Ch05-08 . SHD02	SPA-	-	S105	12AXD-38	2	B	Cable S105 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
-	Cabel S105 outer Shield							Cabel S105 outer Shd co to Busbar (Faraday)					
083	SPIRE PLW Ch09-12 . 9+	SPA-	-	S106	12AXD-38	3	C	PLW-C7	HSJFP	75	121210 P13	022	
072	SPIRE PLW Ch09-12 . 9-	SPA-	-	S106	12AXD-38	3	C		HSJFP	75	121210 P13	009	
036	SPIRE PLW Ch09-12 . 9gnd	SPA-	-	S106	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
095	SPIRE PLW Ch09-12 . 10+	SPA-	-	S106	12AXD-38	3	C	PLW-B5	HSJFP	75	121210 P13	023	
084	SPIRE PLW Ch09-12 . 10-	SPA-	-	S106	12AXD-38	3	C		HSJFP	75	121210 P13	010	
036	SPIRE PLW Ch09-12 . 10gnd	SPA-	-	S106	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
096	SPIRE PLW Ch09-12 . 11+	SPA-	-	S106	12AXD-38	3	C	PLW-B6	HSJFP	75	121210 P13	024	
085	SPIRE PLW Ch09-12 . 11-	SPA-	-	S106	12AXD-38	3	C		HSJFP	75	121210 P13	011	
036	SPIRE PLW Ch09-12 . 11gnd	SPA-	-	S106	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
106	SPIRE PLW Ch09-12 . 12+	SPA-	-	S106	12AXD-38	3	C	PLW-A5	HSJFP	75	121210 P13	025	
107	SPIRE PLW Ch09-12 . 12-	SPA-	-	S106	12AXD-38	3	C		HSJFP	75	121210 P13	012	
036	SPIRE PLW Ch09-12 . 12gnd	SPA-	-	S106	12AXD-38	3	C	Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
036	SPIRE PLW Ch09-12 . SHD03	SPA-	-	S106	12AXD-38	3	C	Cable S106 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P13	013	
-	Cabel S106 outer Shield							Cabel S106 outer Shd co to Busbar (Faraday)					
128	SPIRE PMW B06 GND WIRE A2	SPX-	-	S462	010B0-30			Con to Cable from P13 GND/Shds	HSJFP	75	121210 P14	013	
086	SPIRE PLW Ch13-16 . 13+	SPA-	-	S109	12AXD-38	4	D	PLW-T1	HSJFP	75	121210 P14	001	
087	SPIRE PLW Ch13-16 . 13-	SPA-	-	S109	12AXD-38	4	D		HSJFP	75	121210 P14	014	
128	SPIRE PLW Ch13-16 . 13gnd	SPA-	-	S109	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	013	
097	SPIRE PLW Ch13-16 . 14+	SPA-	-	S109	12AXD-38	4	D	PLW-B4	HSJFP	75	121210 P14	002	
098	SPIRE PLW Ch13-16 . 14-	SPA-	-	S109	12AXD-38	4	D		HSJFP	75	121210 P14	015	
128	SPIRE PLW Ch13-16 . 14gnd	SPA-	-	S109	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	013	

# Pin Allocation List (Harness)

Connector: 211121 J24

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
108	SPIRE PLW Ch13-16 . 15+	SPA-	-	S109	12AXD-38	4	D	PLW-C4	HSJFP	75	121210 P14	003	
109	SPIRE PLW Ch13-16 . 15-	SPA-	-	S109	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	016	
128	SPIRE PLW Ch13-16 . 15gnd	SPA-	-	S109	12AXD-38	4	D		HSJFP	75	121210 P14	013	
116	SPIRE PLW Ch13-16 . 16+	SPA-	-	S109	12AXD-38	4	D	PLW-B3	HSJFP	75	121210 P14	004	
117	SPIRE PLW Ch13-16 . 16-	SPA-	-	S109	12AXD-38	4	D	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	017	
128	SPIRE PLW Ch13-16 . 16gnd	SPA-	-	S109	12AXD-38	4	D		HSJFP	75	121210 P14	013	
128	SPIRE PLW Ch13-16 . SHD01	SPA-	-	S109	12AXD-38	4	D	Cable S109 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	013	
-	Cabel S109 outer Shield							Cabel S109 outer Shd co to Busbar (Faraday)					
055	SPIRE PLW Ch17-20 . 17+	SPA-	-	S110	12AXD-38	5	E	PLW-C2	HSJFP	75	121210 P14	005	
066	SPIRE PLW Ch17-20 . 17-	SPA-	-	S110	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	018	
128	SPIRE PLW Ch17-20 . 17gnd	SPA-	-	S110	12AXD-38	5	E		HSJFP	75	121210 P14	013	
067	SPIRE PLW Ch17-20 . 18+	SPA-	-	S110	12AXD-38	5	E	PLW-B2	HSJFP	75	121210 P14	006	
078	SPIRE PLW Ch17-20 . 18-	SPA-	-	S110	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	019	
128	SPIRE PLW Ch17-20 . 18gnd	SPA-	-	S110	12AXD-38	5	E		HSJFP	75	121210 P14	013	
076	SPIRE PLW Ch17-20 . 19+	SPA-	-	S110	12AXD-38	5	E	PLW-B1	HSJFP	75	121210 P14	020	
077	SPIRE PLW Ch17-20 . 19-	SPA-	-	S110	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	007	
128	SPIRE PLW Ch17-20 . 19gnd	SPA-	-	S110	12AXD-38	5	E		HSJFP	75	121210 P14	013	
088	SPIRE PLW Ch17-20 . 20+	SPA-	-	S110	12AXD-38	5	E	PLW-A3	HSJFP	75	121210 P14	021	
089	SPIRE PLW Ch17-20 . 20-	SPA-	-	S110	12AXD-38	5	E	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	008	
128	SPIRE PLW Ch17-20 . 20gnd	SPA-	-	S110	12AXD-38	5	E		HSJFP	75	121210 P14	013	
128	SPIRE PLW Ch17-20 . SHD02	SPA-	-	S110	12AXD-38	5	E	Cable S110 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	013	
-	Cabel S110 outer Shield							Cabel S110 outer Shd co to Busbar (Faraday)					
099	SPIRE PLW Ch21-24 . 21+	SPA-	-	S111	12AXD-38	6	F	PLW-A4	HSJFP	75	121210 P14	022	
100	SPIRE PLW Ch21-24 . 21-	SPA-	-	S111	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	009	
128	SPIRE PLW Ch21-24 . 21gnd	SPA-	-	S111	12AXD-38	6	F		HSJFP	75	121210 P14	013	
110	SPIRE PLW Ch21-24 . 22+	SPA-	-	S111	12AXD-38	6	F	PLW-A1	HSJFP	75	121210 P14	023	

**Pin Allocation List**  
(Harness)**Connector:** 211121 J24**Item:** CVUUCR**EMC-Category:** 2C/Sig H in Cryostat**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)**Conn.-Type:** 197-011P24-35P (Junct.)**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
111	SPIRE PLW Ch21-24 . 22-	SPA-	-	S111	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	010	
128	SPIRE PLW Ch21-24 . 22gnd	SPA-	-	S111	12AXD-38	6	F		HSJFP	75	121210 P14	013	
118	SPIRE PLW Ch21-24 . 23+	SPA-	-	S111	12AXD-38	6	F	PLW-DK1	HSJFP	75	121210 P14	024	
119	SPIRE PLW Ch21-24 . 23-	SPA-	-	S111	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	011	
128	SPIRE PLW Ch21-24 . 23gnd	SPA-	-	S111	12AXD-38	6	F		HSJFP	75	121210 P14	013	
112	SPIRE PLW Ch21-24 . 24+	SPA-	-	S111	12AXD-38	6	F	PLW-A2	HSJFP	75	121210 P14	025	
120	SPIRE PLW Ch21-24 . 24-	SPA-	-	S111	12AXD-38	6	F	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	012	
128	SPIRE PLW Ch21-24 . 24gnd	SPA-	-	S111	12AXD-38	6	F		HSJFP	75	121210 P14	013	
128	SPIRE PLW Ch21-24 . SHD03	SPA-	-	S111	12AXD-38	6	F	Cable S111 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P14	013	
-	Cabel S111 outer Shield							Cabel S111 outer Shd co to Busbar (Faraday)					
047	SPIRE PMW B06 GND WIRE A3	SPX-	-	S463	010B0-30			Con to Cable from P15 GND/Shds	HSJFP	75	121210 P15	013	
090	SPIRE PLW Ch25-28 . 25+	SPA-	-	S113	12AXD-38	7	G	PLW-E1	HSJFP	75	121210 P15	001	
079	SPIRE PLW Ch25-28 . 25-	SPA-	-	S113	12AXD-38	7	G	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	014	
047	SPIRE PLW Ch25-28 . 25gnd	SPA-	-	S113	12AXD-38	7	G		HSJFP	75	121210 P15	013	
102	SPIRE PLW Ch25-28 . 26+	SPA-	-	S113	12AXD-38	7	G	PLW-E2	HSJFP	75	121210 P15	002	
101	SPIRE PLW Ch25-28 . 26-	SPA-	-	S113	12AXD-38	7	G	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	015	
047	SPIRE PLW Ch25-28 . 26gnd	SPA-	-	S113	12AXD-38	7	G		HSJFP	75	121210 P15	013	
092	SPIRE PLW Ch25-28 . 27+	SPA-	-	S113	12AXD-38	7	G	PLW-E3	HSJFP	75	121210 P15	003	
091	SPIRE PLW Ch25-28 . 27-	SPA-	-	S113	12AXD-38	7	G	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	016	
047	SPIRE PLW Ch25-28 . 27gnd	SPA-	-	S113	12AXD-38	7	G		HSJFP	75	121210 P15	013	
103	SPIRE PLW Ch25-28 . 28+	SPA-	-	S113	12AXD-38	7	G	PLW-E4	HSJFP	75	121210 P15	004	
113	SPIRE PLW Ch25-28 . 28-	SPA-	-	S113	12AXD-38	7	G	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	017	
047	SPIRE PLW Ch25-28 . 28gnd	SPA-	-	S113	12AXD-38	7	G		HSJFP	75	121210 P15	013	
047	SPIRE PLW Ch25-28 . SHD01	SPA-	-	S113	12AXD-38	7	G	Cable S113 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	013	
-	Cabel S113 outer Shield							Cabel S113 outer Shd co to Busbar (Faraday)					



**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-5 (of 9)

**Connector:** 211121 J24  
**Item:** CVVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
058	SPIRE PLW Ch29-32 . 29+	SPA-	-	S114	12AXD-38	8	H	PLW-D1	HSJFP	75	121210 P15	005	
046	SPIRE PLW Ch29-32 . 29-	SPA-	-	S114	12AXD-38	8	H	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	018	
047	SPIRE PLW Ch29-32 . 29gnd	SPA-	-	S114	12AXD-38	8	H		HSJFP	75	121210 P15	013	
068	SPIRE PLW Ch29-32 . 30+	SPA-	-	S114	12AXD-38	8	H	PLW-D2	HSJFP	75	121210 P15	006	
057	SPIRE PLW Ch29-32 . 30-	SPA-	-	S114	12AXD-38	8	H	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	019	
047	SPIRE PLW Ch29-32 . 30gnd	SPA-	-	S114	12AXD-38	8	H		HSJFP	75	121210 P15	013	
069	SPIRE PLW Ch29-32 . 31+	SPA-	-	S114	12AXD-38	8	H	PLW-D3	HSJFP	75	121210 P15	020	
080	SPIRE PLW Ch29-32 . 31-	SPA-	-	S114	12AXD-38	8	H	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	007	
047	SPIRE PLW Ch29-32 . 31gnd	SPA-	-	S114	12AXD-38	8	H		HSJFP	75	121210 P15	013	
070	SPIRE PLW Ch29-32 . 32+	SPA-	-	S114	12AXD-38	8	H	PLW-D4	HSJFP	75	121210 P15	021	
081	SPIRE PLW Ch29-32 . 32-	SPA-	-	S114	12AXD-38	8	H	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	008	
047	SPIRE PLW Ch29-32 . 32gnd	SPA-	-	S114	12AXD-38	8	H		HSJFP	75	121210 P15	013	
047	SPIRE PLW Ch29-32 . SHD02	SPA-	-	S114	12AXD-38	8	H	Cable S114 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	013	
-	Cabel S114 outer Shield							Cabel S114 outer Shd co to Busbar (Faraday)					
023	SPIRE PLW Ch33-36 . 33+	SPA-	-	S115	12AXD-38	9	I	PLW-C1	HSJFP	75	121210 P15	022	
034	SPIRE PLW Ch33-36 . 33-	SPA-	-	S115	12AXD-38	9	I	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	009	
047	SPIRE PLW Ch33-36 . 33gnd	SPA-	-	S115	12AXD-38	9	I		HSJFP	75	121210 P15	013	
033	SPIRE PLW Ch33-36 . 34+	SPA-	-	S115	12AXD-38	9	I	PLW-C3	HSJFP	75	121210 P15	023	
045	SPIRE PLW Ch33-36 . 34-	SPA-	-	S115	12AXD-38	9	I	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	010	
047	SPIRE PLW Ch33-36 . 34gnd	SPA-	-	S115	12AXD-38	9	I		HSJFP	75	121210 P15	013	
044	SPIRE PLW Ch33-36 . 35+	SPA-	-	S115	12AXD-38	9	I	PLW-C5	HSJFP	75	121210 P15	024	
056	SPIRE PLW Ch33-36 . 35-	SPA-	-	S115	12AXD-38	9	I	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	011	
047	SPIRE PLW Ch33-36 . 35gnd	SPA-	-	S115	12AXD-38	9	I		HSJFP	75	121210 P15	013	
022	SPIRE PLW Ch33-36 . 36+	SPA-	-	S115	12AXD-38	9	I	PLW-T2	HSJFP	75	121210 P15	025	
032	SPIRE PLW Ch33-36 . 36-	SPA-	-	S115	12AXD-38	9	I	Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	012	
047	SPIRE PLW Ch33-36 . 36gnd	SPA-	-	S115	12AXD-38	9	I		HSJFP	75	121210 P15	013	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-6 (of 9)

Connector: 211121 J24

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
047	SPIRE PLW Ch33-36 . SHD03	SPA-	-	S115	12AXD-38	9	I	Cable S115 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P15	013	
-	Cabel S115 outer Shield							Cabel S115 outer Shd co to Busbar (Faraday)					
-													
004	SPIRE PMW B06 GND WIRE A4	SPX-	-	S464	010B0-30			Con to Cable from P13 GND/Shds	HSJFP	75	121210 P16	013	
-													
013	SPIRE PLW Ch37-40 . 37+	SPA-	-	S118	12AXD-38			PLW-E5	HSJFP	75	121210 P16	001	
012	SPIRE PLW Ch37-40 . 37-	SPA-	-	S118	12AXD-38	10	J		HSJFP	75	121210 P16	014	
004	SPIRE PLW Ch37-40 . 37gnd	SPA-	-	S118	12AXD-38	10	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	
-													
021	SPIRE PLW Ch37-40 . 38+	SPA-	-	S118	12AXD-38	10	J	PLW-C6	HSJFP	75	121210 P16	002	
020	SPIRE PLW Ch37-40 . 38-	SPA-	-	S118	12AXD-38	10	J		HSJFP	75	121210 P16	015	
004	SPIRE PLW Ch37-40 . 38gnd	SPA-	-	S118	12AXD-38	10	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	
-													
031	SPIRE PLW Ch37-40 . 39+	SPA-	-	S118	12AXD-38	10	J	PLW-C8	HSJFP	75	121210 P16	003	
043	SPIRE PLW Ch37-40 . 39-	SPA-	-	S118	12AXD-38	10	J		HSJFP	75	121210 P16	016	
004	SPIRE PLW Ch37-40 . 39gnd	SPA-	-	S118	12AXD-38	10	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	
-													
042	SPIRE PLW Ch37-40 . 40+	SPA-	-	S118	12AXD-38	10	J	PLW-D5	HSJFP	75	121210 P16	004	
054	SPIRE PLW Ch37-40 . 40-	SPA-	-	S118	12AXD-38	10	J		HSJFP	75	121210 P16	017	
004	SPIRE PLW Ch37-40 . 40gnd	SPA-	-	S118	12AXD-38	10	J	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	
004	SPIRE PLW Ch37-40 . SHD01	SPA-	-	S118	12AXD-38	10	J	Cable S118 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	
-	Cabel S118 outer Shield							Cabel S118 outer Shd co to Busbar (Faraday)					
-													
010	SPIRE PLW Ch41-44 . 41+	SPA-	-	S119	12AXD-38	11	K	PLW-D6	HSJFP	75	121210 P16	005	
011	SPIRE PLW Ch41-44 . 41-	SPA-	-	S119	12AXD-38	11	K		HSJFP	75	121210 P16	018	
004	SPIRE PLW Ch41-44 . 41gnd	SPA-	-	S119	12AXD-38	11	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	
-													
019	SPIRE PLW Ch41-44 . 42+	SPA-	-	S119	12AXD-38	11	K	PLW-D7	HSJFP	75	121210 P16	006	
029	SPIRE PLW Ch41-44 . 42-	SPA-	-	S119	12AXD-38	11	K		HSJFP	75	121210 P16	019	
004	SPIRE PLW Ch41-44 . 42gnd	SPA-	-	S119	12AXD-38	11	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	

# Pin Allocation List

## (Harness)

Doc.No.: HP-2-ASED-IC-0016

Issue: 1.0 Date: 21.04.2004

Sheet: PAL-7 (of 9)

Connector: 211121 J24

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
041	SPIRE PLW Ch41-44 . 43+	SPA-	-	S119	12AXD-38	11	K	PLW-D8	HSJFP	75	121210 P16	020	
030	SPIRE PLW Ch41-44 . 43-	SPA-	-	S119	12AXD-38	11	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	007	
004	SPIRE PLW Ch41-44 . 43gnd	SPA-	-	S119	12AXD-38	11	K		HSJFP	75	121210 P16	013	
053	SPIRE PLW Ch41-44 . 44+	SPA-	-	S119	12AXD-38	11	K	PLW-E7	HSJFP	75	121210 P16	021	
052	SPIRE PLW Ch41-44 . 44-	SPA-	-	S119	12AXD-38	11	K	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	008	
004	SPIRE PLW Ch41-44 . 44gnd	SPA-	-	S119	12AXD-38	11	K	Cable S119 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	
004	SPIRE PLW Ch41-44 . SHD02	SPA-	-	S119	12AXD-38	11	K	Cabel S119 outer Shd co to Busbar (Faraday)	HSJFP	75	121210 P16	013	
-	Cabel S119 outer Shield												
009	SPIRE PLW Ch45-48 . 45+	SPA-	-	S120	12AXD-38	12	L	PLW-E6	HSJFP	75	121210 P16	022	
017	SPIRE PLW Ch45-48 . 45-	SPA-	-	S120	12AXD-38	12	L	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	009	
004	SPIRE PLW Ch45-48 . 45gnd	SPA-	-	S120	12AXD-38	12	L		HSJFP	75	121210 P16	013	
018	SPIRE PLW Ch45-48 . 46+	SPA-	-	S120	12AXD-38	12	L	PLW-E8	HSJFP	75	121210 P16	023	
028	SPIRE PLW Ch45-48 . 46-	SPA-	-	S120	12AXD-38	12	L	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	010	
004	SPIRE PLW Ch45-48 . 46gnd	SPA-	-	S120	12AXD-38	12	L		HSJFP	75	121210 P16	013	
016	SPIRE PLW Ch45-48 . 47+	SPA-	-	S120	12AXD-38	12	L	PLW-DK2	HSJFP	75	121210 P16	024	
027	SPIRE PLW Ch45-48 . 47-	SPA-	-	S120	12AXD-38	12	L	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	011	
004	SPIRE PLW Ch45-48 . 47gnd	SPA-	-	S120	12AXD-38	12	L		HSJFP	75	121210 P16	013	
040	SPIRE PLW Ch45-48 . 48+	SPA-	-	S120	12AXD-38	12	L	PLW-E9	HSJFP	75	121210 P16	025	
039	SPIRE PLW Ch45-48 . 48-	SPA-	-	S120	12AXD-38	12	L	Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	012	
004	SPIRE PLW Ch45-48 . 48gnd	SPA-	-	S120	12AXD-38	12	L	Cable S120 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P16	013	
004	SPIRE PLW Ch45-48 . SHD03	SPA-	-	S120	12AXD-38	12	L	Cabel S120 outer Shd co to Busbar (Faraday)	HSJFP	75	121210 P16	013	
-	Cabel S120 outer Shield												
001	Faraday Pins							Connected to Busbar ECR0039 tbc					
002	Faraday Pins							Connected to Busbar ECR0039 tbc					

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 9)

Connector: 211121 J24

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)

Location: 33 / CVV I/F CB Top PFM (CWUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
003	Faraday Pins					Connected to Busbar ECR0039 tbc					
005	Faraday Pins					Connected to Busbar ECR0039 tbc					
006	Faraday Pins					Connected to Busbar ECR0039 tbc					
007	Faraday Pins					Connected to Busbar ECR0039 tbc					
008	Faraday Pins					Connected to Busbar ECR0039 tbc					
014	Faraday Pins					Connected to Busbar ECR0039 tbc					
015	Faraday Pins					Connected to Busbar ECR0039 tbc					
024	Faraday Pins					Connected to Busbar ECR0039 tbc					
025	Faraday Pins					Connected to Busbar ECR0039 tbc					
035	Faraday Pins					Connected to Busbar ECR0039 tbc					
082	Faraday Pins					Connected to Busbar ECR0039 tbc					
093	Faraday Pins					Connected to Busbar ECR0039 tbc					
094	Faraday Pins					Connected to Busbar ECR0039 tbc					
104	Faraday Pins					Connected to Busbar ECR0039 tbc					
105	Faraday Pins					Connected to Busbar ECR0039 tbc					
114	Faraday Pins					Connected to Busbar ECR0039 tbc					
115	Faraday Pins					Connected to Busbar ECR0039 tbc					
121	Faraday Pins					Connected to Busbar ECR0039 tbc					
122	Faraday Pins					Connected to Busbar ECR0039 tbc					
123	Faraday Pins					Connected to Busbar ECR0039 tbc					

**Astrium GmbH**

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-9 (of 9)

**Connector:** 211121 J24

**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)

**Location:** 33 / CVW I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
124	Faraday Pins					Connected to Busbar ECR0039 tbc					
125	Faraday Pins					Connected to Busbar ECR0039 tbc					
126	Faraday Pins					Connected to Busbar ECR0039 tbc					
127	Faraday Pins					Connected to Busbar ECR0039 tbc					
-	Connector Housing					CH isolated from Faraday Shds					
-	Overall Shd	SHD				No Overall Shd at Junction side					
-						Bundles isolated from S/C structure					





# Astrium GmbH

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-C-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 8)

Project: **HERSCHEL**  
For wiring schematic  
see SIH-CS-04 CVVUCR J22

Connector: 211121 J25  
Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFTThr 235.0° (SPIRE XS-07 JFF9,10,11,12)  
Location: 33 / CVW I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
036	SPIRE PLW B07 GND WIRE A1	SPX	- -	S471	010B0-30			Con to Cable from P09 GND/Shds	HSJFP	75	121210 P09	13	
026	SPIRE PSW (5) Ch01-04 . 1+	SPC	- -	S158	12AXD-38	1		PSW-D11	HSJFP	75	121210 P09	001	
037	SPIRE PSW (5) Ch01-04 . 1-	SPC	- -	S158	12AXD-38	1			HSJFP	75	121210 P09	014	
036	SPIRE PSW (5) Ch01-04 . 1gnd	SPC	- -	S158	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
038	SPIRE PSW (5) Ch01-04 . 2+	SPC	- -	S158	12AXD-38	1		PSW-A10	HSJFP	75	121210 P09	002	
049	SPIRE PSW (5) Ch01-04 . 2-	SPC	- -	S158	12AXD-38	1			HSJFP	75	121210 P09	015	
036	SPIRE PSW (5) Ch01-04 . 2gnd	SPC	- -	S158	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
048	SPIRE PSW (5) Ch01-04 . 3+	SPC	- -	S158	12AXD-38	1		PSW-E10	HSJFP	75	121210 P09	003	
060	SPIRE PSW (5) Ch01-04 . 3-	SPC	- -	S158	12AXD-38	1			HSJFP	75	121210 P09	016	
036	SPIRE PSW (5) Ch01-04 . 3gnd	SPC	- -	S158	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
059	SPIRE PSW (5) Ch01-04 . 4+	SPC	- -	S158	12AXD-38	1		PSW-C10	HSJFP	75	121210 P09	004	
071	SPIRE PSW (5) Ch01-04 . 4-	SPC	- -	S158	12AXD-38	1			HSJFP	75	121210 P09	017	
036	SPIRE PSW (5) Ch01-04 . 4gnd	SPC	- -	S158	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
036	SPIRE PSW (5) Ch01-04 . SHD01	SPC	- -	S158	12AXD-38	1		Cable S158 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
-	Cable S158 outer Shield							Cable S158 outer Shd con to Busbar (Faraday)					
050	SPIRE PSW (5) Ch05-08 . 5+	SPC	- -	S159	12AXD-38	2		PSW-B10	HSJFP	75	121210 P09	005	
061	SPIRE PSW (5) Ch05-08 . 5-	SPC	- -	S159	12AXD-38	2			HSJFP	75	121210 P09	018	
036	SPIRE PSW (5) Ch05-08 . 5gnd	SPC	- -	S159	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
062	SPIRE PSW (5) Ch05-08 . 6+	SPC	- -	S159	12AXD-38	2		PSW-D10	HSJFP	75	121210 P09	006	
051	SPIRE PSW (5) Ch05-08 . 6-	SPC	- -	S159	12AXD-38	2			HSJFP	75	121210 P09	019	
036	SPIRE PSW (5) Ch05-08 . 6gnd	SPC	- -	S159	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
063	SPIRE PSW (5) Ch05-08 . 7+	SPC	- -	S159	12AXD-38	2		PSW-A9	HSJFP	75	121210 P09	020	
075	SPIRE PSW (5) Ch05-08 . 7-	SPC	- -	S159	12AXD-38	2			HSJFP	75	121210 P09	007	
036	SPIRE PSW (5) Ch05-08 . 7gnd	SPC	- -	S159	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
074	SPIRE PSW (5) Ch05-08 . 8+	SPC	- -	S159	12AXD-38	2		PSW-E9	HSJFP	75	121210 P09	021	
073	SPIRE PSW (5) Ch05-08 . 8-	SPC	- -	S159	12AXD-38	2			HSJFP	75	121210 P09	008	
036	SPIRE PSW (5) Ch05-08 . 8gnd	SPC	- -	S159	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	



# Pin Allocation List (Harness)

**Connector:** 211121 J25  
**Item:** CVVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PSW (5) Ch05-08 . SHD02	SPC.-	-	S159	12AXD-38	2		Cable S159 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
-	Cable S159 outer Shield							Cable S159 outer Shd con to Busbar (Faraday)					
083	SPIRE PSW (5) Ch09-12 . 9+	SPC.-	-	S160	12AXD-38	3		PSW-C9	HSJFP	75	121210 P09	022	
072	SPIRE PSW (5) Ch09-12 . 9-	SPC.-	-	S160	12AXD-38	3			HSJFP	75	121210 P09	009	
036	SPIRE PSW (5) Ch09-12 . 9gnd	SPC.-	-	S160	12AXD-38	3		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
095	SPIRE PSW (5) Ch09-12 . 10+	SPC.-	-	S160	12AXD-38	3		PSW-B9	HSJFP	75	121210 P09	023	
084	SPIRE PSW (5) Ch09-12 . 10-	SPC.-	-	S160	12AXD-38	3			HSJFP	75	121210 P09	010	
036	SPIRE PSW (5) Ch09-12 . 10gnd	SPC.-	-	S160	12AXD-38	3		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
096	SPIRE PSW (5) Ch09-12 . 11+	SPC.-	-	S160	12AXD-38	3		PSW-D9	HSJFP	75	121210 P09	024	
085	SPIRE PSW (5) Ch09-12 . 11-	SPC.-	-	S160	12AXD-38	3			HSJFP	75	121210 P09	011	
036	SPIRE PSW (5) Ch09-12 . 11gnd	SPC.-	-	S160	12AXD-38	3		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
106	SPIRE PSW (5) Ch09-12 . 12+	SPC.-	-	S160	12AXD-38	3		PSW-A8	HSJFP	75	121210 P09	025	
107	SPIRE PSW (5) Ch09-12 . 12-	SPC.-	-	S160	12AXD-38	3			HSJFP	75	121210 P09	012	
036	SPIRE PSW (5) Ch09-12 . 12gnd	SPC.-	-	S160	12AXD-38	3		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
036	SPIRE PSW (5) Ch09-12 . SHD03	SPC.-	-	S160	12AXD-38	3		Cable S160 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P09	013	
-	Cable S160 outer Shield							Cable S160 outer Shd con to Busbar (Faraday)					
128	SPIRE PLW B07 GND WIRE A2	SPX.-	-	S472	010B0-30			Con to Cable from P10 GND/Shds	HSJFP	75	121210 P10	013	
086	SPIRE PSW (5) Ch13-16 . 13+	SPC.-	-	S163	12AXD-38	4		PSW-C8	HSJFP	75	121210 P10	001	
087	SPIRE PSW (5) Ch13-16 . 13-	SPC.-	-	S163	12AXD-38	4			HSJFP	75	121210 P10	014	
128	SPIRE PSW (5) Ch13-16 . 13gnd	SPC.-	-	S163	12AXD-38	4		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	013	
097	SPIRE PSW (5) Ch13-16 . 14+	SPC.-	-	S163	12AXD-38	4		PSW-E8	HSJFP	75	121210 P10	002	
098	SPIRE PSW (5) Ch13-16 . 14-	SPC.-	-	S163	12AXD-38	4			HSJFP	75	121210 P10	015	
128	SPIRE PSW (5) Ch13-16 . 14gnd	SPC.-	-	S163	12AXD-38	4		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	013	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 8)

**Connector:** 211121 J25  
**Item:** CWWUCR

**Function:** UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVW I/F CB Top PFM (CWWUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

**EMC-Category:** 2C/Sig H in Cryostat

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
108	SPIRE PSW (5) Ch13-16 . 15+	SPC.-	-	S163	12AXD-38	4		PSW-D8	HSJFP	75	121210 P10	003	
109	SPIRE PSW (5) Ch13-16 . 15-	SPC.-	-	S163	12AXD-38	4		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	016	
128	SPIRE PSW (5) Ch13-16 . 15grnd	SPC.-	-	S163	12AXD-38	4			HSJFP	75	121210 P10	013	
116	SPIRE PSW (5) Ch13-16 . 16+	SPC.-	-	S163	12AXD-38	4		PSW-B8	HSJFP	75	121210 P10	004	
117	SPIRE PSW (5) Ch13-16 . 16-	SPC.-	-	S163	12AXD-38	4		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	017	
128	SPIRE PSW (5) Ch13-16 . 16grnd	SPC.-	-	S163	12AXD-38	4			HSJFP	75	121210 P10	013	
128	SPIRE PSW (5) Ch13-16 . SHD01	SPC.-	-	S163	12AXD-38	4		Cable S163 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	013	
-	Cable S163 outer Shield							Cable S163 outer Shd con to Busbar (Faraday)					
055	SPIRE PSW (5) Ch17-20 . 17+	SPC.-	-	S164	12AXD-38	5		PSW-C7	HSJFP	75	121210 P10	005	
066	SPIRE PSW (5) Ch17-20 . 17-	SPC.-	-	S164	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	018	
128	SPIRE PSW (5) Ch17-20 . 17grnd	SPC.-	-	S164	12AXD-38	5			HSJFP	75	121210 P10	013	
067	SPIRE PSW (5) Ch17-20 . 18+	SPC.-	-	S164	12AXD-38	5		PSW-E7	HSJFP	75	121210 P10	006	
078	SPIRE PSW (5) Ch17-20 . 18-	SPC.-	-	S164	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	019	
128	SPIRE PSW (5) Ch17-20 . 18grnd	SPC.-	-	S164	12AXD-38	5			HSJFP	75	121210 P10	013	
076	SPIRE PSW (5) Ch17-20 . 19+	SPC.-	-	S164	12AXD-38	5		PSW-A7	HSJFP	75	121210 P10	020	
077	SPIRE PSW (5) Ch17-20 . 19-	SPC.-	-	S164	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	007	
128	SPIRE PSW (5) Ch17-20 . 19grnd	SPC.-	-	S164	12AXD-38	5			HSJFP	75	121210 P10	013	
088	SPIRE PSW (5) Ch17-20 . 20+	SPC.-	-	S164	12AXD-38	5		PSW-D7	HSJFP	75	121210 P10	021	
089	SPIRE PSW (5) Ch17-20 . 20-	SPC.-	-	S164	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	008	
128	SPIRE PSW (5) Ch17-20 . 20grnd	SPC.-	-	S164	12AXD-38	5			HSJFP	75	121210 P10	013	
128	SPIRE PSW (5) Ch17-20 . SHD02	SPC.-	-	S164	12AXD-38	5		Cable S164 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	013	
-	Cable S164 outer Shield							Cable S164 outer Shd con to Busbar (Faraday)					
099	SPIRE PSW (5) Ch21-24 . 21+	SPC.-	-	S165	12AXD-38	6		PSW-B7	HSJFP	75	121210 P10	022	
100	SPIRE PSW (5) Ch21-24 . 21-	SPC.-	-	S165	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	009	
128	SPIRE PSW (5) Ch21-24 . 21grnd	SPC.-	-	S165	12AXD-38	6			HSJFP	75	121210 P10	013	
110	SPIRE PSW (5) Ch21-24 . 22+	SPC.-	-	S165	12AXD-38	6		PSW-C6	HSJFP	75	121210 P10	023	

# Pin Allocation List (Harness)

Connector: 211121 J25

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
111	SPIRE PSW (5) Ch21-24 . 22-	SPC.-	-	S165	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	010	
128	SPIRE PSW (5) Ch21-24 . 22gnd	SPC.-	-	S165	12AXD-38	6			HSJFP	75	121210 P10	013	
118	SPIRE PSW (5) Ch21-24 . 23+	SPC.-	-	S165	12AXD-38	6		PSW-E6	75	121210 P10	024		
119	SPIRE PSW (5) Ch21-24 . 23-	SPC.-	-	S165	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	011	
128	SPIRE PSW (5) Ch21-24 . 23gnd	SPC.-	-	S165	12AXD-38	6			HSJFP	75	121210 P10	013	
112	SPIRE PSW (5) Ch21-24 . 24+	SPC.-	-	S165	12AXD-38	6		PSW-A6	75	121210 P10	025		
120	SPIRE PSW (5) Ch21-24 . 24-	SPC.-	-	S165	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	012	
128	SPIRE PSW (5) Ch21-24 . 24gnd	SPC.-	-	S165	12AXD-38	6			HSJFP	75	121210 P10	013	
128	SPIRE PSW (5) Ch21-24 . SHD03	SPC.-	-	S165	12AXD-38	6		Cable S165 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P10	013	
-	Cable S165 outer Shield							Cable S165 outer Shd con to Busbar (Faraday)					
047	SPIRE PLW B07 GND WIRE A3	SPX.-	-	S473	010B0-30			Con to Cable from P11 GND/Shds	HSJFP	75	121210 P11	013	
090	SPIRE PSW (6) Ch25-28 . 25+	SPC.-	-	S167	12AXD-38	7		PSW-G5	HSJFP	75	121210 P11	001	
079	SPIRE PSW (6) Ch25-28 . 25-	SPC.-	-	S167	12AXD-38	7			HSJFP	75	121210 P11	014	
047	SPIRE PSW (6) Ch25-28 . 25gnd	SPC.-	-	S167	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
102	SPIRE PSW (6) Ch25-28 . 26+	SPC.-	-	S167	12AXD-38	7		PSW-H6	HSJFP	75	121210 P11	002	
101	SPIRE PSW (6) Ch25-28 . 26-	SPC.-	-	S167	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	015	
047	SPIRE PSW (6) Ch25-28 . 26gnd	SPC.-	-	S167	12AXD-38	7			HSJFP	75	121210 P11	013	
092	SPIRE PSW (6) Ch25-28 . 27+	SPC.-	-	S167	12AXD-38	7		PSW-J6	HSJFP	75	121210 P11	003	
091	SPIRE PSW (6) Ch25-28 . 27-	SPC.-	-	S167	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	016	
047	SPIRE PSW (6) Ch25-28 . 27gnd	SPC.-	-	S167	12AXD-38	7			HSJFP	75	121210 P11	013	
103	SPIRE PSW (6) Ch25-28 . 28+	SPC.-	-	S167	12AXD-38	7		PSW-F6	HSJFP	75	121210 P11	004	
113	SPIRE PSW (6) Ch25-28 . 28-	SPC.-	-	S167	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	017	
047	SPIRE PSW (6) Ch25-28 . 28gnd	SPC.-	-	S167	12AXD-38	7			HSJFP	75	121210 P11	013	
047	SPIRE PSW (6) Ch25-28 . SHD01	SPC.-	-	S167	12AXD-38	7		Cable S167 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
-	Cable S167 outer Shield							Cable S167 outer Shd con to Busbar (Faraday)					

# Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-5 (of 8)

Connector: 211121 J25

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
058	SPIRE PSW (6) Ch29-32 . 29+	SPC	-	S168	12AXD-38	8		PSW-G6	HSJFP	75	121210 P11	005	
046	SPIRE PSW (6) Ch29-32 . 29-	SPC	-	S168	12AXD-38	8			HSJFP	75	121210 P11	018	
047	SPIRE PSW (6) Ch29-32 . 29gnd	SPC	-	S168	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
068	SPIRE PSW (6) Ch29-32 . 30+	SPC	-	S168	12AXD-38	8		PSW-H7	HSJFP	75	121210 P11	006	
057	SPIRE PSW (6) Ch29-32 . 30-	SPC	-	S168	12AXD-38	8			HSJFP	75	121210 P11	019	
047	SPIRE PSW (6) Ch29-32 . 30gnd	SPC	-	S168	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
069	SPIRE PSW (6) Ch29-32 . 31+	SPC	-	S168	12AXD-38	8		PSW-F7	HSJFP	75	121210 P11	020	
080	SPIRE PSW (6) Ch29-32 . 31-	SPC	-	S168	12AXD-38	8			HSJFP	75	121210 P11	007	
047	SPIRE PSW (6) Ch29-32 . 31gnd	SPC	-	S168	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
070	SPIRE PSW (6) Ch29-32 . 32+	SPC	-	S168	12AXD-38	8		PSW-J7	HSJFP	75	121210 P11	021	
081	SPIRE PSW (6) Ch29-32 . 32-	SPC	-	S168	12AXD-38	8			HSJFP	75	121210 P11	008	
047	SPIRE PSW (6) Ch29-32 . 32gnd	SPC	-	S168	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
047	SPIRE PSW (6) Ch29-32 . SHD02	SPC	-	S168	12AXD-38	8		Cable S168 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
-	Cable S168 outer Shield							Cable S168 outer Shd con to Busbar (Faraday)					
023	SPIRE PSW (6) Ch33-36 . 33+	SPC	-	S169	12AXD-38	9		PSW-G7	HSJFP	75	121210 P11	022	
034	SPIRE PSW (6) Ch33-36 . 33-	SPC	-	S169	12AXD-38	9			HSJFP	75	121210 P11	009	
047	SPIRE PSW (6) Ch33-36 . 33gnd	SPC	-	S169	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
033	SPIRE PSW (6) Ch33-36 . 34+	SPC	-	S169	12AXD-38	9		PSW-H8	HSJFP	75	121210 P11	023	
045	SPIRE PSW (6) Ch33-36 . 34-	SPC	-	S169	12AXD-38	9			HSJFP	75	121210 P11	010	
047	SPIRE PSW (6) Ch33-36 . 34gnd	SPC	-	S169	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
044	SPIRE PSW (6) Ch33-36 . 35+	SPC	-	S169	12AXD-38	9		PSW-F8	HSJFP	75	121210 P11	024	
056	SPIRE PSW (6) Ch33-36 . 35-	SPC	-	S169	12AXD-38	9			HSJFP	75	121210 P11	011	
047	SPIRE PSW (6) Ch33-36 . 35gnd	SPC	-	S169	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
022	SPIRE PSW (6) Ch33-36 . 36+	SPC	-	S169	12AXD-38	9		PSW-G8	HSJFP	75	121210 P11	025	
032	SPIRE PSW (6) Ch33-36 . 36-	SPC	-	S169	12AXD-38	9			HSJFP	75	121210 P11	012	
047	SPIRE PSW (6) Ch33-36 . 36gnd	SPC	-	S169	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	

# Pin Allocation List (Harness)

**Connector:** 211121 J25  
**Item:** CVUUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFT1r 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
047	SPIRE PSW (6) Ch33-36 . SHD03	SPC.-	-	S169	12AXD-38	9		Cable S169 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P11	013	
-	Cable S169 outer Shield							Cable S169 outer Shd con to Busbar (Faraday)					
-													
004	SPIRE PLW B07 GND WIRE A4	SPX.-	-	S474	010B0-30			Con to Cable from P12 GND/Shds	HSJFP	75	121210 P12	013	
-													
013	SPIRE PSW (6) Ch37-40 . 37+	SPC.-	-	S172	12AXD-38	10		PSW-J8	HSJFP	75	121210 P12	001	
012	SPIRE PSW (6) Ch37-40 . 37-	SPC.-	-	S172	12AXD-38	10			HSJFP	75	121210 P12	014	
004	SPIRE PSW (6) Ch37-40 . 37gnd	SPC.-	-	S172	12AXD-38	10		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
-													
021	SPIRE PSW (6) Ch37-40 . 38+	SPC.-	-	S172	12AXD-38	10		PSW-F9	HSJFP	75	121210 P12	002	
020	SPIRE PSW (6) Ch37-40 . 38-	SPC.-	-	S172	12AXD-38	10			HSJFP	75	121210 P12	015	
004	SPIRE PSW (6) Ch37-40 . 38gnd	SPC.-	-	S172	12AXD-38	10		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
-													
031	SPIRE PSW (6) Ch37-40 . 39+	SPC.-	-	S172	12AXD-38	10		PSW-H9	HSJFP	75	121210 P12	003	
043	SPIRE PSW (6) Ch37-40 . 39-	SPC.-	-	S172	12AXD-38	10			HSJFP	75	121210 P12	016	
004	SPIRE PSW (6) Ch37-40 . 39gnd	SPC.-	-	S172	12AXD-38	10		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
-													
042	SPIRE PSW (6) Ch37-40 . 40+	SPC.-	-	S172	12AXD-38	10		PSW-G9	HSJFP	75	121210 P12	004	
054	SPIRE PSW (6) Ch37-40 . 40-	SPC.-	-	S172	12AXD-38	10			HSJFP	75	121210 P12	017	
004	SPIRE PSW (6) Ch37-40 . 40gnd	SPC.-	-	S172	12AXD-38	10		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
004	SPIRE PSW (6) Ch37-40 . SHD01	SPC.-	-	S172	12AXD-38	10		Cable S172 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
-	Cable S172 outer Shield							Cable S172 outer Shd con to Busbar (Faraday)					
-													
-													
010	SPIRE PSW (6) Ch41-44 . 41+	SPC.-	-	S173	12AXD-38	11		PSW-J9	HSJFP	75	121210 P12	005	
011	SPIRE PSW (6) Ch41-44 . 41-	SPC.-	-	S173	12AXD-38	11			HSJFP	75	121210 P12	018	
004	SPIRE PSW (6) Ch41-44 . 41gnd	SPC.-	-	S173	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
-													
019	SPIRE PSW (6) Ch41-44 . 42+	SPC.-	-	S173	12AXD-38	11		PSW-F10	HSJFP	75	121210 P12	006	
029	SPIRE PSW (6) Ch41-44 . 42-	SPC.-	-	S173	12AXD-38	11			HSJFP	75	121210 P12	019	
004	SPIRE PSW (6) Ch41-44 . 42gnd	SPC.-	-	S173	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 211121 J25

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)

Location: 33 / CW / I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
041	SPIRE PSW (6) Ch41-44 . 43+	SPC.-	-	S173	12AXD-38	11		PSW-H10	HSJFP	75	121210 P12	020	
030	SPIRE PSW (6) Ch41-44 . 43-	SPC.-	-	S173	12AXD-38	11			HSJFP	75	121210 P12	007	
004	SPIRE PSW (6) Ch41-44 . 43gnd	SPC.-	-	S173	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
053	SPIRE PSW (6) Ch41-44 . 44+	SPC.-	-	S173	12AXD-38	11		PSW-G10	HSJFP	75	121210 P12	021	
052	SPIRE PSW (6) Ch41-44 . 44-	SPC.-	-	S173	12AXD-38	11			HSJFP	75	121210 P12	008	
004	SPIRE PSW (6) Ch41-44 . 44gnd	SPC.-	-	S173	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
004	SPIRE PSW (6) Ch41-44 . SHD02	SPC.-	-	S173	12AXD-38	11		Cable S173 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
-	Cable S173 outer Shield							Cable S173 outer Shd con to Busbar (Faraday)					
009	SPIRE PSW (6) Ch45-48 . 45+	SPC.-	-	S174	12AXD-38	12		PSW-F11	HSJFP	75	121210 P12	022	
017	SPIRE PSW (6) Ch45-48 . 45-	SPC.-	-	S174	12AXD-38	12			HSJFP	75	121210 P12	009	
004	SPIRE PSW (6) Ch45-48 . 45gnd	SPC.-	-	S174	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
018	SPIRE PSW (6) Ch45-48 . 46+	SPC.-	-	S174	12AXD-38	12		PSW-J10	HSJFP	75	121210 P12	023	
028	SPIRE PSW (6) Ch45-48 . 46-	SPC.-	-	S174	12AXD-38	12			HSJFP	75	121210 P12	010	
004	SPIRE PSW (6) Ch45-48 . 46gnd	SPC.-	-	S174	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
016	SPIRE PSW (6) Ch45-48 . 47+	SPC.-	-	S174	12AXD-38	12		PSW-H11	HSJFP	75	121210 P12	024	
027	SPIRE PSW (6) Ch45-48 . 47-	SPC.-	-	S174	12AXD-38	12			HSJFP	75	121210 P12	011	
004	SPIRE PSW (6) Ch45-48 . 47gnd	SPC.-	-	S174	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
040	SPIRE PSW (6) Ch45-48 . 48+	SPC.-	-	S174	12AXD-38	12		PSW-G11	HSJFP	75	121210 P12	025	
039	SPIRE PSW (6) Ch45-48 . 48-	SPC.-	-	S174	12AXD-38	12			HSJFP	75	121210 P12	012	
004	SPIRE PSW (6) Ch45-48 . 48gnd	SPC.-	-	S174	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
004	SPIRE PSW (6) Ch45-48 . SHD03	SPC.-	-	S174	12AXD-38	12		Cable S174 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P12	013	
-	Cable S174 outer Shield							Cable S174 outer Shd con to Busbar (Faraday)					
001	Faraday Pins							Connected to Busbar					
002	Faraday Pins							Connected to Busbar					
003	Faraday Pins							Connected to Busbar					
005	Faraday Pins							Connected to Busbar					
006	Faraday Pins							Connected to Busbar					

# Pin Allocation List (Harness)

Project: **HERSCHEL**

**Connector:** 211121 J25

**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
007	Faraday Pins							Connected to Busbar					
008	Faraday Pins							Connected to Busbar					
014	Faraday Pins							Connected to Busbar					
015	Faraday Pins							Connected to Busbar					
024	Faraday Pins							Connected to Busbar					
025	Faraday Pins							Connected to Busbar					
035	Faraday Pins							Connected to Busbar					
082	Faraday Pins							Connected to Busbar					
093	Faraday Pins							Connected to Busbar					
094	Faraday Pins							Connected to Busbar					
104	Faraday Pins							Connected to Busbar					
105	Faraday Pins							Connected to Busbar					
114	Faraday Pins							Connected to Busbar					
115	Faraday Pins							Connected to Busbar					
121	Faraday Pins							Connected to Busbar					
122	Faraday Pins							Connected to Busbar					
123	Faraday Pins							Connected to Busbar					
124	Faraday Pins							Connected to Busbar					
125	Faraday Pins							Connected to Busbar					
126	Faraday Pins							Connected to Busbar					
127	Faraday Pins							Connected to Busbar					
-	CH							Ch isolated from Faraday Shds					
-								No Overall Shd at Junction side					
-								Bundles isolated from S/C structure					





# Pin Allocation List (Harness)

**Connector:** 211121 J27

**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 257.0° (SPIRE XS-08 JFP 5.6, 7, 8)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PLW B08 GND WIRE A1	SPX.- -	S481	010B0-30			Con to Cable from P05 GND/Shds	HSJFP	75	121210 P05	013	
026	SPIRE PSW (3) Ch01-04 . 1+	SPC.- -	S140	12AXD-38	1		PSW-D6	HSJFP	75	121210 P05	001	
037	SPIRE PSW (3) Ch01-04 . 1-	SPC.- -	S140	12AXD-38	1			HSJFP	75	121210 P05	014	
036	SPIRE PSW (3) Ch01-04 . 1gnd	SPC.- -	S140	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
038	SPIRE PSW (3) Ch01-04 . 2+	SPC.- -	S140	12AXD-38	1		PSW-B6	HSJFP	75	121210 P05	002	
049	SPIRE PSW (3) Ch01-04 . 2-	SPC.- -	S140	12AXD-38	1			HSJFP	75	121210 P05	015	
036	SPIRE PSW (3) Ch01-04 . 2gnd	SPC.- -	S140	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
048	SPIRE PSW (3) Ch01-04 . 3+	SPC.- -	S140	12AXD-38	1		PSW-C5	HSJFP	75	121210 P05	003	
060	SPIRE PSW (3) Ch01-04 . 3-	SPC.- -	S140	12AXD-38	1			HSJFP	75	121210 P05	016	
036	SPIRE PSW (3) Ch01-04 . 3gnd	SPC.- -	S140	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
059	SPIRE PSW (3) Ch01-04 . 4+	SPC.- -	S140	12AXD-38	1		PSW-A5	HSJFP	75	121210 P05	004	
071	SPIRE PSW (3) Ch01-04 . 4-	SPC.- -	S140	12AXD-38	1			HSJFP	75	121210 P05	017	
036	SPIRE PSW (3) Ch01-04 . 4gnd	SPC.- -	S140	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
036	SPIRE PSW (3) Ch01-04 . SHD01	SPC.- -	S140	12AXD-38	1		Cable S140 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
-	Cable S140 outer Shield						Cable S140 outer Shd con to Busbar (Faraday)					
050	SPIRE PSW (3) Ch05-08 . 5+	SPC.- -	S141	12AXD-38	2		PSW-E5	HSJFP	75	121210 P05	005	
061	SPIRE PSW (3) Ch05-08 . 5-	SPC.- -	S141	12AXD-38	2			HSJFP	75	121210 P05	018	
036	SPIRE PSW (3) Ch05-08 . 5gnd	SPC.- -	S141	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
062	SPIRE PSW (3) Ch05-08 . 6+	SPC.- -	S141	12AXD-38	2		PSW-B5	HSJFP	75	121210 P05	006	
051	SPIRE PSW (3) Ch05-08 . 6-	SPC.- -	S141	12AXD-38	2			HSJFP	75	121210 P05	019	
036	SPIRE PSW (3) Ch05-08 . 6gnd	SPC.- -	S141	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
063	SPIRE PSW (3) Ch05-08 . 7+	SPC.- -	S141	12AXD-38	2		PSW-D5	HSJFP	75	121210 P05	020	
075	SPIRE PSW (3) Ch05-08 . 7-	SPC.- -	S141	12AXD-38	2			HSJFP	75	121210 P05	007	
036	SPIRE PSW (3) Ch05-08 . 7gnd	SPC.- -	S141	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
074	SPIRE PSW (3) Ch05-08 . 8+	SPC.- -	S141	12AXD-38	2		PSW-C4	HSJFP	75	121210 P05	021	
073	SPIRE PSW (3) Ch05-08 . 8-	SPC.- -	S141	12AXD-38	2			HSJFP	75	121210 P05	008	
036	SPIRE PSW (3) Ch05-08 . 8gnd	SPC.- -	S141	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	

**Pin Allocation List**  
(Harness)**Connector:** 211121 J27**Item:** CVVUCR**EMC-Category:** 2C/Sig H in Cryostat**Function:** UFThr 257.0° (SPIRE XS-08 JFP 5.6..7.8)**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)**Conn.-Type:** 197-011P24-35P (Junct.)**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
036	SPIRE PSW (3) Ch05-08 . SHD02	SPC.-	-	S141	12AXD-38	2		Cable S141 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
-	Cable S141 outer Shield							Cable S141 outer Shd con to Busbar (Faraday)					
-													
083	SPIRE PSW (3) Ch09-12 . 9+	SPC.-	-	S142	12AXD-38	3		PSW-A4	HSJFP	75	121210 P05	022	
072	SPIRE PSW (3) Ch09-12 . 9-	SPC.-	-	S142	12AXD-38	3			HSJFP	75	121210 P05	009	
036	SPIRE PSW (3) Ch09-12 . 9gnd	SPC.-	-	S142	12AXD-38	3		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
-													
095	SPIRE PSW (3) Ch09-12 . 10+	SPC.-	-	S142	12AXD-38	3		PSW-D4	HSJFP	75	121210 P05	023	
084	SPIRE PSW (3) Ch09-12 . 10-	SPC.-	-	S142	12AXD-38	3			HSJFP	75	121210 P05	010	
036	SPIRE PSW (3) Ch09-12 . 10gnd	SPC.-	-	S142	12AXD-38	3		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
-													
096	SPIRE PSW (3) Ch09-12 . 11+	SPC.-	-	S142	12AXD-38	3		PSW-B4	HSJFP	75	121210 P05	024	
085	SPIRE PSW (3) Ch09-12 . 11-	SPC.-	-	S142	12AXD-38	3			HSJFP	75	121210 P05	011	
036	SPIRE PSW (3) Ch09-12 . 11gnd	SPC.-	-	S142	12AXD-38	3		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
-													
106	SPIRE PSW (3) Ch09-12 . 12+	SPC.-	-	S142	12AXD-38	3		PSW-C3	HSJFP	75	121210 P05	025	
107	SPIRE PSW (3) Ch09-12 . 12-	SPC.-	-	S142	12AXD-38	3			HSJFP	75	121210 P05	012	
036	SPIRE PSW (3) Ch09-12 . 12gnd	SPC.-	-	S142	12AXD-38	3		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
036	SPIRE PSW (3) Ch09-12 . SHD03	SPC.-	-	S142	12AXD-38	3		Cable S142 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P05	013	
-	Cable S142 outer Shield							Cable S142 outer Shd con to Busbar (Faraday)					
-													
-													
128	SPIRE PLW B08 GND WIRE A2	SPX.-	-	S482	010B0-30			Con to Cable from P06 GND/Shds	HSJFP	75	121210 P06	013	
-													
-													
086	SPIRE PSW (3) Ch13-16 . 13+	SPC.-	-	S145	12AXD-38	4		PSW-B3	HSJFP	75	121210 P06	001	
087	SPIRE PSW (3) Ch13-16 . 13-	SPC.-	-	S145	12AXD-38	4			HSJFP	75	121210 P06	014	
128	SPIRE PSW (3) Ch13-16 . 13gnd	SPC.-	-	S145	12AXD-38	4		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	013	
-													
097	SPIRE PSW (3) Ch13-16 . 14+	SPC.-	-	S145	12AXD-38	4		PSW-A3	HSJFP	75	121210 P06	002	
098	SPIRE PSW (3) Ch13-16 . 14-	SPC.-	-	S145	12AXD-38	4			HSJFP	75	121210 P06	015	
128	SPIRE PSW (3) Ch13-16 . 14gnd	SPC.-	-	S145	12AXD-38	4		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	013	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 8)

Connector: 211121 J27

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 257.0° (SPIRE XS-08 JFP 5.6.,7.8)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
108	SPIRE PSW (3) Ch13-16 . 15+	SPC.-	-	S145	12AXD-38	4		PSW-A2	HSJFP	75	121210 P06	003	
109	SPIRE PSW (3) Ch13-16 . 15-	SPC.-	-	S145	12AXD-38	4		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	016	
128	SPIRE PSW (3) Ch13-16 . 15gnd	SPC.-	-	S145	12AXD-38	4			HSJFP	75	121210 P06	013	
116	SPIRE PSW (3) Ch13-16 . 16+	SPC.-	-	S145	12AXD-38	4		PSW-D3	HSJFP	75	121210 P06	004	
117	SPIRE PSW (3) Ch13-16 . 16-	SPC.-	-	S145	12AXD-38	4		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	017	
128	SPIRE PSW (3) Ch13-16 . 16gnd	SPC.-	-	S145	12AXD-38	4			HSJFP	75	121210 P06	013	
128	SPIRE PSW (3) Ch13-16 . SHD01	SPC.-	-	S145	12AXD-38	4		Cable S145 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	013	
-	Cable S145 outer Shield							Cable S145 outer Shd con to Busbar (Faraday)					
055	SPIRE PSW (3) Ch17-20 . 17+	SPC.-	-	S146	12AXD-38	5		PSW-C2	HSJFP	75	121210 P06	005	
066	SPIRE PSW (3) Ch17-20 . 17-	SPC.-	-	S146	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	018	
128	SPIRE PSW (3) Ch17-20 . 17gnd	SPC.-	-	S146	12AXD-38	5			HSJFP	75	121210 P06	013	
067	SPIRE PSW (3) Ch17-20 . 18+	SPC.-	-	S146	12AXD-38	5		PSW-B2	HSJFP	75	121210 P06	006	
078	SPIRE PSW (3) Ch17-20 . 18-	SPC.-	-	S146	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	019	
128	SPIRE PSW (3) Ch17-20 . 18gnd	SPC.-	-	S146	12AXD-38	5			HSJFP	75	121210 P06	013	
076	SPIRE PSW (3) Ch17-20 . 19+	SPC.-	-	S146	12AXD-38	5		PSW-D2	HSJFP	75	121210 P06	020	
077	SPIRE PSW (3) Ch17-20 . 19-	SPC.-	-	S146	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	007	
128	SPIRE PSW (3) Ch17-20 . 19gnd	SPC.-	-	S146	12AXD-38	5			HSJFP	75	121210 P06	013	
088	SPIRE PSW (3) Ch17-20 . 20+	SPC.-	-	S146	12AXD-38	5		PSW-A1	HSJFP	75	121210 P06	021	
089	SPIRE PSW (3) Ch17-20 . 20-	SPC.-	-	S146	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	008	
128	SPIRE PSW (3) Ch17-20 . 20gnd	SPC.-	-	S146	12AXD-38	5			HSJFP	75	121210 P06	013	
128	SPIRE PSW (3) Ch17-20 . SHD02	SPC.-	-	S146	12AXD-38	5		Cable S146 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	013	
-	Cable S146 outer Shield							Cable S146 outer Shd con to Busbar (Faraday)					
099	SPIRE PSW (3) Ch21-24 . 21+	SPC.-	-	S147	12AXD-38	6		PSW-C1	HSJFP	75	121210 P06	022	
100	SPIRE PSW (3) Ch21-24 . 21-	SPC.-	-	S147	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	009	
128	SPIRE PSW (3) Ch21-24 . 21gnd	SPC.-	-	S147	12AXD-38	6			HSJFP	75	121210 P06	013	
110	SPIRE PSW (3) Ch21-24 . 22+	SPC.-	-	S147	12AXD-38	6		PSW-B1	HSJFP	75	121210 P06	023	

# Pin Allocation List (Harness)

**Connector:** 211121 J27  
**Item:** CVVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 257.0° (SPIRE XS-08 JFP 5.6,7,8)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
111	SPIRE PSW (3) Ch21-24 . 22-	SPC.-	-	S147	12AXD-38	6			HSJFP	75	121210 P06	010	
128	SPIRE PSW (3) Ch21-24 . 22gnd	SPC.-	-	S147	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	013	
118	SPIRE PSW (3) Ch21-24 . 23+	SPC.-	-	S147	12AXD-38	6		PSW-DK1	HSJFP	75	121210 P06	024	
119	SPIRE PSW (3) Ch21-24 . 23-	SPC.-	-	S147	12AXD-38	6			HSJFP	75	121210 P06	011	
128	SPIRE PSW (3) Ch21-24 . 23gnd	SPC.-	-	S147	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	013	
112	SPIRE PSW (3) Ch21-24 . 24+	SPC.-	-	S147	12AXD-38	6		PSW-D1	HSJFP	75	121210 P06	025	
120	SPIRE PSW (3) Ch21-24 . 24-	SPC.-	-	S147	12AXD-38	6			HSJFP	75	121210 P06	012	
128	SPIRE PSW (3) Ch21-24 . 24gnd	SPC.-	-	S147	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	013	
128	SPIRE PSW (3) Ch21-24 . SHD03	SPC.-	-	S147	12AXD-38	6		Cable S147 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P06	013	
-	Cable S147 outer Shield							Cable S147 outer Shd con to Busbar (Faraday)					
047	SPIRE PLW B08 GND WIRE A3	SPX.-	-	S483	010B0-30			Con to Cable from P07 GND/Shds	HSJFP	75	121210 P07	013	
090	SPIRE PSW (4) Ch25-28 . 25+	SPC.-	-	S149	12AXD-38	7		PSW-F12	HSJFP	75	121210 P07	001	
079	SPIRE PSW (4) Ch25-28 . 25-	SPC.-	-	S149	12AXD-38	7			HSJFP	75	121210 P07	014	
047	SPIRE PSW (4) Ch25-28 . 25gnd	SPC.-	-	S149	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
102	SPIRE PSW (4) Ch25-28 . 26+	SPC.-	-	S149	12AXD-38	7		PSW-J11	HSJFP	75	121210 P07	002	
101	SPIRE PSW (4) Ch25-28 . 26-	SPC.-	-	S149	12AXD-38	7			HSJFP	75	121210 P07	015	
047	SPIRE PSW (4) Ch25-28 . 26gnd	SPC.-	-	S149	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
092	SPIRE PSW (4) Ch25-28 . 27+	SPC.-	-	S149	12AXD-38	7		PSW-E12	HSJFP	75	121210 P07	003	
091	SPIRE PSW (4) Ch25-28 . 27-	SPC.-	-	S149	12AXD-38	7			HSJFP	75	121210 P07	016	
047	SPIRE PSW (4) Ch25-28 . 27gnd	SPC.-	-	S149	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
103	SPIRE PSW (4) Ch25-28 . 28+	SPC.-	-	S149	12AXD-38	7		PSW-H12	HSJFP	75	121210 P07	004	
113	SPIRE PSW (4) Ch25-28 . 28-	SPC.-	-	S149	12AXD-38	7			HSJFP	75	121210 P07	017	
047	SPIRE PSW (4) Ch25-28 . 28gnd	SPC.-	-	S149	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
047	SPIRE PSW (4) Ch25-28 . SHD01	SPC.-	-	S149	12AXD-38	7		Cable S149 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
-	Cable S149 outer Shield							Cable S149 outer Shd con to Busbar (Faraday)					

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-5 (of 8)

Connector: 211121 J27

Item: CWWUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 257.0° (SPIRE XS-08 JFP 5,6.,7,8)

Location: 33 / CW / I/F CB Top PFM (CWWUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backsheli: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
058	SPIRE PSW (4) Ch29-32 . 29+	SPC.-	-	S150	12AXD-38	8		PSW-G12	HSJFP	75	121210 P07	005	
046	SPIRE PSW (4) Ch29-32 . 29-	SPC.-	-	S150	12AXD-38	8			HSJFP	75	121210 P07	018	
047	SPIRE PSW (4) Ch29-32 . 29gnd	SPC.-	-	S150	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
068	SPIRE PSW (4) Ch29-32 . 30+	SPC.-	-	S150	12AXD-38	8		PSW-F13	HSJFP	75	121210 P07	006	
057	SPIRE PSW (4) Ch29-32 . 30-	SPC.-	-	S150	12AXD-38	8			HSJFP	75	121210 P07	019	
047	SPIRE PSW (4) Ch29-32 . 30gnd	SPC.-	-	S150	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
069	SPIRE PSW (4) Ch29-32 . 31+	SPC.-	-	S150	12AXD-38	8		PSW-E13	HSJFP	75	121210 P07	020	
080	SPIRE PSW (4) Ch29-32 . 31-	SPC.-	-	S150	12AXD-38	8			HSJFP	75	121210 P07	007	
047	SPIRE PSW (4) Ch29-32 . 31gnd	SPC.-	-	S150	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
070	SPIRE PSW (4) Ch29-32 . 32+	SPC.-	-	S150	12AXD-38	8		PSW-J12	HSJFP	75	121210 P07	021	
081	SPIRE PSW (4) Ch29-32 . 32-	SPC.-	-	S150	12AXD-38	8			HSJFP	75	121210 P07	008	
047	SPIRE PSW (4) Ch29-32 . 32gnd	SPC.-	-	S150	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
047	SPIRE PSW (4) Ch29-32 . SHD02	SPC.-	-	S150	12AXD-38	8		Cable S150 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
-	Cable S150 outer Shield							Cable S150 outer Shd con to Busbar (Faraday)					
023	SPIRE PSW (4) Ch33-36 . 33+	SPC.-	-	S151	12AXD-38	9		PSW-H13	HSJFP	75	121210 P07	022	
034	SPIRE PSW (4) Ch33-36 . 33-	SPC.-	-	S151	12AXD-38	9			HSJFP	75	121210 P07	009	
047	SPIRE PSW (4) Ch33-36 . 33gnd	SPC.-	-	S151	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
033	SPIRE PSW (4) Ch33-36 . 34+	SPC.-	-	S151	12AXD-38	9		PSW-G13	HSJFP	75	121210 P07	023	
045	SPIRE PSW (4) Ch33-36 . 34-	SPC.-	-	S151	12AXD-38	9			HSJFP	75	121210 P07	010	
047	SPIRE PSW (4) Ch33-36 . 34gnd	SPC.-	-	S151	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
044	SPIRE PSW (4) Ch33-36 . 35+	SPC.-	-	S151	12AXD-38	9		PSW-F14	HSJFP	75	121210 P07	024	
056	SPIRE PSW (4) Ch33-36 . 35-	SPC.-	-	S151	12AXD-38	9			HSJFP	75	121210 P07	011	
047	SPIRE PSW (4) Ch33-36 . 35gnd	SPC.-	-	S151	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
022	SPIRE PSW (4) Ch33-36 . 36+	SPC.-	-	S151	12AXD-38	9		PSW-E14	HSJFP	75	121210 P07	025	
032	SPIRE PSW (4) Ch33-36 . 36-	SPC.-	-	S151	12AXD-38	9			HSJFP	75	121210 P07	012	
047	SPIRE PSW (4) Ch33-36 . 36gnd	SPC.-	-	S151	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-6 (of 8)

**Connector:** 211121 J27

**Item:** CVUUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 257.0° (SPIRE XS-08 JFP 5.6..7.8)

**Location:** 33 / CVV I/F CB Top PFM (CWUOCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
047	SPIRE PSW (4) Ch33-36 . SHD03	SPC.- -	S151	12AXD-38	9			Cable S151 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P07	013	
-	Cable S151 outer Shield							Cable S151 outer Shd con to Busbar (Faraday)					
-													
-													
004	SPIRE PLW B08 GND WIRE A4	SPX.- -	S484	010B0-30				Con to Cable from P08 GND/Shds	HSJFP	75	121210 P08	013	
-													
013	SPIRE PSW (4) Ch37-40 . 37+	SPC.- -	S154	12AXD-38	10			PSW-J13	HSJFP	75	121210 P08	001	
012	SPIRE PSW (4) Ch37-40 . 37-	SPC.- -	S154	12AXD-38	10				HSJFP	75	121210 P08	014	
004	SPIRE PSW (4) Ch37-40 . 37gnd	SPC.- -	S154	12AXD-38	10			Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
-													
021	SPIRE PSW (4) Ch37-40 . 38+	SPC.- -	S154	12AXD-38	10			PSW-H14	HSJFP	75	121210 P08	002	
020	SPIRE PSW (4) Ch37-40 . 38-	SPC.- -	S154	12AXD-38	10				HSJFP	75	121210 P08	015	
004	SPIRE PSW (4) Ch37-40 . 38gnd	SPC.- -	S154	12AXD-38	10			Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
-													
031	SPIRE PSW (4) Ch37-40 . 39+	SPC.- -	S154	12AXD-38	10			PSW-G14	HSJFP	75	121210 P08	003	
043	SPIRE PSW (4) Ch37-40 . 39-	SPC.- -	S154	12AXD-38	10				HSJFP	75	121210 P08	016	
004	SPIRE PSW (4) Ch37-40 . 39gnd	SPC.- -	S154	12AXD-38	10			Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
-													
042	SPIRE PSW (4) Ch37-40 . 40+	SPC.- -	S154	12AXD-38	10			PSW-J14	HSJFP	75	121210 P08	004	
054	SPIRE PSW (4) Ch37-40 . 40-	SPC.- -	S154	12AXD-38	10				HSJFP	75	121210 P08	017	
004	SPIRE PSW (4) Ch37-40 . 40gnd	SPC.- -	S154	12AXD-38	10			Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
004	SPIRE PSW (4) Ch37-40 . SHD01	SPC.- -	S154	12AXD-38	10			Cable S154 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
-	Cable S154 outer Shield							Cable S154 outer Shd con to Busbar (Faraday)					
-													
-													
010	SPIRE PSW (4) Ch41-44 . 41+	SPC.- -	S155	12AXD-38	11			PSW-F15	HSJFP	75	121210 P08	005	
011	SPIRE PSW (4) Ch41-44 . 41-	SPC.- -	S155	12AXD-38	11				HSJFP	75	121210 P08	018	
004	SPIRE PSW (4) Ch41-44 . 41gnd	SPC.- -	S155	12AXD-38	11			Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
-													
019	SPIRE PSW (4) Ch41-44 . 42+	SPC.- -	S155	12AXD-38	11			PSW-H15	HSJFP	75	121210 P08	006	
029	SPIRE PSW (4) Ch41-44 . 42-	SPC.- -	S155	12AXD-38	11				HSJFP	75	121210 P08	019	
004	SPIRE PSW (4) Ch41-44 . 42gnd	SPC.- -	S155	12AXD-38	11			Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 211121 J27

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 257.0° (SPIRE XS-08 JFP 5.6,.7,8)

Location: 33 / CW / IF CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
041	SPIRE PSW (4) Ch41-44 . 43+	SPC.-	-	S155	12AXD-38	11		PSW-J15	HSJFP	75	121210 P08	020	
030	SPIRE PSW (4) Ch41-44 . 43-	SPC.-	-	S155	12AXD-38	11			HSJFP	75	121210 P08	007	
004	SPIRE PSW (4) Ch41-44 . 43gnd	SPC.-	-	S155	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
053	SPIRE PSW (4) Ch41-44 . 44+	SPC.-	-	S155	12AXD-38	11		PSW-G15	HSJFP	75	121210 P08	021	
052	SPIRE PSW (4) Ch41-44 . 44-	SPC.-	-	S155	12AXD-38	11			HSJFP	75	121210 P08	008	
004	SPIRE PSW (4) Ch41-44 . 44gnd	SPC.-	-	S155	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
004	SPIRE PSW (4) Ch41-44 . SHD02	SPC.-	-	S155	12AXD-38	11		Cable S155 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
-	Cable S155 outer Shield							Cable S155 outer Shd con to Busbar (Faraday)					
009	SPIRE PSW (4) Ch45-48 . 45+	SPC.-	-	S156	12AXD-38	12		PSW-H16	HSJFP	75	121210 P08	022	
017	SPIRE PSW (4) Ch45-48 . 45-	SPC.-	-	S156	12AXD-38	12			HSJFP	75	121210 P08	009	
004	SPIRE PSW (4) Ch45-48 . 45gnd	SPC.-	-	S156	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
018	SPIRE PSW (4) Ch45-48 . 46+	SPC.-	-	S156	12AXD-38	12		PSW-DK2	HSJFP	75	121210 P08	023	
028	SPIRE PSW (4) Ch45-48 . 46-	SPC.-	-	S156	12AXD-38	12			HSJFP	75	121210 P08	010	
004	SPIRE PSW (4) Ch45-48 . 46gnd	SPC.-	-	S156	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
016	SPIRE PSW (4) Ch45-48 . 47+	SPC.-	-	S156	12AXD-38	12		PSW-F16	HSJFP	75	121210 P08	024	
027	SPIRE PSW (4) Ch45-48 . 47-	SPC.-	-	S156	12AXD-38	12			HSJFP	75	121210 P08	011	
004	SPIRE PSW (4) Ch45-48 . 47gnd	SPC.-	-	S156	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
040	SPIRE PSW (4) Ch45-48 . 48+	SPC.-	-	S156	12AXD-38	12		PSW-E15	HSJFP	75	121210 P08	025	
039	SPIRE PSW (4) Ch45-48 . 48-	SPC.-	-	S156	12AXD-38	12			HSJFP	75	121210 P08	012	
004	SPIRE PSW (4) Ch45-48 . 48gnd	SPC.-	-	S156	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
004	SPIRE PSW (4) Ch45-48 . SHD03	SPC.-	-	S156	12AXD-38	12		Cable S156 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P08	013	
-	Cable S156 outer Shield							Cable S156 outer Shd con to Busbar (Faraday)					
001	Faraday Pins							Connected to Busbar					
002	Faraday Pins							Connected to Busbar					
003	Faraday Pins							Connected to Busbar					
005	Faraday Pins							Connected to Busbar					

# Pin Allocation List (Harness)

**Connector:** 211121 J27

**Function:** UFTnr 257.0° (SPIRE XS-08 JFP 5,6,7,8)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Item:** CVVUCR

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Backshell:** 128/175\_176\_01\_0A

**EMC-Category:** 2C/Sig H in Cryostat

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
006	Faraday Pins							Connected to Busbar					
007	Faraday Pins							Connected to Busbar					
008	Faraday Pins							Connected to Busbar					
014	Faraday Pins							Connected to Busbar					
015	Faraday Pins							Connected to Busbar					
024	Faraday Pins							Connected to Busbar					
025	Faraday Pins							Connected to Busbar					
035	Faraday Pins							Connected to Busbar					
082	Faraday Pins							Connected to Busbar					
093	Faraday Pins							Connected to Busbar					
094	Faraday Pins							Connected to Busbar					
104	Faraday Pins							Connected to Busbar					
105	Faraday Pins							Connected to Busbar					
114	Faraday Pins							Connected to Busbar					
115	Faraday Pins							Connected to Busbar					
121	Faraday Pins							Connected to Busbar					
122	Faraday Pins							Connected to Busbar					
123	Faraday Pins							Connected to Busbar					
124	Faraday Pins							Connected to Busbar					
125	Faraday Pins							Connected to Busbar					
126	Faraday Pins							Connected to Busbar					
127	Faraday Pins							Connected to Busbar					
-	Connector Housing							CH isolated from Faraday Shds					
-								No Overall Shd at Junction side					
-								Bundles Isolated from S/C structure					





# Pin Allocation List

(Harness)

For wiring Schematic  
 See SIH-CS-04 CVUUCR J22

**Connector:** 211121 J28  
**Item:** CVUUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFTnr 263.2° (SPIRE XS-09 JFP 1,2,3,4)  
**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PLW B09 GND WIRE A1	SPX	-	S491	010B0-30			Con to Cable from P01 GND/Shds	HSJFP	75	121210 P01	013	
026	SPIRE PSW Ch01-04 . 1+	SPC	-	S122	12AXD-38	1		PSW-R1	HSJFP	75	121210 P01	001	
037	SPIRE PSW Ch01-04 . 1-	SPC	-	S122	12AXD-38	1			HSJFP	75	121210 P01	014	
036	SPIRE PSW Ch01-04 . 1gnd	SPC	-	S122	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
038	SPIRE PSW Ch01-04 . 2+	SPC	-	S122	12AXD-38	1		PSW-D16	HSJFP	75	121210 P01	002	
049	SPIRE PSW Ch01-04 . 2-	SPC	-	S122	12AXD-38	1			HSJFP	75	121210 P01	015	
036	SPIRE PSW Ch01-04 . 2gnd	SPC	-	S122	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
048	SPIRE PSW Ch01-04 . 3+	SPC	-	S122	12AXD-38	1		PSW-T1	HSJFP	75	121210 P01	003	
060	SPIRE PSW Ch01-04 . 3-	SPC	-	S122	12AXD-38	1			HSJFP	75	121210 P01	016	
036	SPIRE PSW Ch01-04 . 3gnd	SPC	-	S122	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
059	SPIRE PSW Ch01-04 . 4+	SPC	-	S122	12AXD-38	1		PSW-B16	HSJFP	75	121210 P01	004	
071	SPIRE PSW Ch01-04 . 4-	SPC	-	S122	12AXD-38	1			HSJFP	75	121210 P01	017	
036	SPIRE PSW Ch01-04 . 4gnd	SPC	-	S122	12AXD-38	1		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
036	SPIRE PSW Ch01-04 . SHD01	SPC	-	S122	12AXD-38	1		Cable S122 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
-	Cable S122 outer Shield							Cable S122 outer Shd con to Busbar (Faraday)					
050	SPIRE PSW Ch05-08 . 5+	SPC	-	S123	12AXD-38	2		PSW-C15	HSJFP	75	121210 P01	005	
061	SPIRE PSW Ch05-08 . 5-	SPC	-	S123	12AXD-38	2			HSJFP	75	121210 P01	018	
036	SPIRE PSW Ch05-08 . 5gnd	SPC	-	S123	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
062	SPIRE PSW Ch05-08 . 6+	SPC	-	S123	12AXD-38	2		PSW-A15	HSJFP	75	121210 P01	006	
051	SPIRE PSW Ch05-08 . 6-	SPC	-	S123	12AXD-38	2			HSJFP	75	121210 P01	019	
036	SPIRE PSW Ch05-08 . 6gnd	SPC	-	S123	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
063	SPIRE PSW Ch05-08 . 7+	SPC	-	S123	12AXD-38	2		PSW-D15	HSJFP	75	121210 P01	020	
075	SPIRE PSW Ch05-08 . 7-	SPC	-	S123	12AXD-38	2			HSJFP	75	121210 P01	007	
036	SPIRE PSW Ch05-08 . 7gnd	SPC	-	S123	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
074	SPIRE PSW Ch05-08 . 8+	SPC	-	S123	12AXD-38	2		PSW-B15	HSJFP	75	121210 P01	021	
073	SPIRE PSW Ch05-08 . 8-	SPC	-	S123	12AXD-38	2			HSJFP	75	121210 P01	008	
036	SPIRE PSW Ch05-08 . 8gnd	SPC	-	S123	12AXD-38	2		Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	

# Pin Allocation List (Harness)

**Connector:** 211121 J28  
**Item:** CVVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Circuit	Interface-Signal	Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PSW Ch05-08 . SHD02	SPC.-	-	S123	12AXD-38	2					Cable S123 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
-	Cable S123 outer Shield										Cable S123 outer Shd con to Busbar (Faraday)					
083	SPIRE PSW Ch09-12 . 9+	SPC.-	-	S124	12AXD-38	3					PSW-C14	HSJFP	75	121210 P01	022	
072	SPIRE PSW Ch09-12 . 9-	SPC.-	-	S124	12AXD-38	3						HSJFP	75	121210 P01	009	
036	SPIRE PSW Ch09-12 . 9gnd	SPC.-	-	S124	12AXD-38	3					Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
095	SPIRE PSW Ch09-12 . 10+	SPC.-	-	S124	12AXD-38	3					PSW-D14	HSJFP	75	121210 P01	023	
084	SPIRE PSW Ch09-12 . 10-	SPC.-	-	S124	12AXD-38	3						HSJFP	75	121210 P01	010	
036	SPIRE PSW Ch09-12 . 10gnd	SPC.-	-	S124	12AXD-38	3					Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
096	SPIRE PSW Ch09-12 . 11+	SPC.-	-	S124	12AXD-38	3					PSW-A14	HSJFP	75	121210 P01	024	
085	SPIRE PSW Ch09-12 . 11-	SPC.-	-	S124	12AXD-38	3						HSJFP	75	121210 P01	011	
036	SPIRE PSW Ch09-12 . 11gnd	SPC.-	-	S124	12AXD-38	3					Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
106	SPIRE PSW Ch09-12 . 12+	SPC.-	-	S124	12AXD-38	3					PSW-A13	HSJFP	75	121210 P01	025	
107	SPIRE PSW Ch09-12 . 12-	SPC.-	-	S124	12AXD-38	3						HSJFP	75	121210 P01	012	
036	SPIRE PSW Ch09-12 . 12gnd	SPC.-	-	S124	12AXD-38	3					Daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
036	SPIRE PSW Ch09-12 . SHD03	SPC.-	-	S124	12AXD-38	3					Cable S124 inner Shd daisy ch to Pin 36 (A1)	HSJFP	75	121210 P01	013	
-	Cable S124 outer Shield										Cable S124 outer Shd con to Busbar (Faraday)					
128	SPIRE PLW B09 GND WIRE A2	SPX.-	-	S492	010B0-30						Con to Cable from P02 GND/Shds	HSJFP	75	121210 P02	013	
086	SPIRE PSW Ch13-16 . 13+	SPC.-	-	S127	12AXD-38	4					PSW-B14	HSJFP	75	121210 P02	001	
087	SPIRE PSW Ch13-16 . 13-	SPC.-	-	S127	12AXD-38	4						HSJFP	75	121210 P02	014	
128	SPIRE PSW Ch13-16 . 13gnd	SPC.-	-	S127	12AXD-38	4					Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013	
097	SPIRE PSW Ch13-16 . 14+	SPC.-	-	S127	12AXD-38	4					PSW-C13	HSJFP	75	121210 P02	002	
098	SPIRE PSW Ch13-16 . 14-	SPC.-	-	S127	12AXD-38	4						HSJFP	75	121210 P02	015	
128	SPIRE PSW Ch13-16 . 14gnd	SPC.-	-	S127	12AXD-38	4					Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013	

**Pin Allocation List**  
(Harness)**Connector:** 211121 J28**Item:** CVVUCR**EMC-Category:** 2C/Sig H in Cryostat**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)**Conn.-Type:** 197-011P24-35P (Junct.)**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
108	SPIRE PSW Ch13-16 . 15+	SPC.-	-	S127	12AXD-38	4	PSW-B13	HSJFP	75	121210 P02	003		
109	SPIRE PSW Ch13-16 . 15-	SPC.-	-	S127	12AXD-38	4		HSJFP	75	121210 P02	016		
128	SPIRE PSW Ch13-16 . 15gnd	SPC.-	-	S127	12AXD-38	4	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
116	SPIRE PSW Ch13-16 . 16+	SPC.-	-	S127	12AXD-38	4	PSW-D13	HSJFP	75	121210 P02	004		
117	SPIRE PSW Ch13-16 . 16-	SPC.-	-	S127	12AXD-38	4		HSJFP	75	121210 P02	017		
128	SPIRE PSW Ch13-16 . 16gnd	SPC.-	-	S127	12AXD-38	4	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
128	SPIRE PSW Ch13-16 . SHD01	SPC.-	-	S127	12AXD-38	4	Cable S127 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
-	Cable S127 outer Shield						Cable S127 outer Shd con to Busbar (Faraday)						
055	SPIRE PSW Ch17-20 . 17+	SPC.-	-	S128	12AXD-38	5	PSW-A12	HSJFP	75	121210 P02	005		
066	SPIRE PSW Ch17-20 . 17-	SPC.-	-	S128	12AXD-38	5		HSJFP	75	121210 P02	018		
128	SPIRE PSW Ch17-20 . 17gnd	SPC.-	-	S128	12AXD-38	5	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
067	SPIRE PSW Ch17-20 . 18+	SPC.-	-	S128	12AXD-38	5	PSW-C12	HSJFP	75	121210 P02	006		
078	SPIRE PSW Ch17-20 . 18-	SPC.-	-	S128	12AXD-38	5		HSJFP	75	121210 P02	019		
128	SPIRE PSW Ch17-20 . 18gnd	SPC.-	-	S128	12AXD-38	5	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
076	SPIRE PSW Ch17-20 . 19+	SPC.-	-	S128	12AXD-38	5	PSW-D12	HSJFP	75	121210 P02	020		
077	SPIRE PSW Ch17-20 . 19-	SPC.-	-	S128	12AXD-38	5		HSJFP	75	121210 P02	007		
128	SPIRE PSW Ch17-20 . 19gnd	SPC.-	-	S128	12AXD-38	5	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
088	SPIRE PSW Ch17-20 . 20+	SPC.-	-	S128	12AXD-38	5	PSW-B12	HSJFP	75	121210 P02	021		
089	SPIRE PSW Ch17-20 . 20-	SPC.-	-	S128	12AXD-38	5		HSJFP	75	121210 P02	008		
128	SPIRE PSW Ch17-20 . 20gnd	SPC.-	-	S128	12AXD-38	5	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
128	SPIRE PSW Ch17-20 . SHD02	SPC.-	-	S128	12AXD-38	5	Cable S128 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
-	Cable S128 outer Shield						Cable S128 outer Shd con to Busbar (Faraday)						
099	SPIRE PSW Ch21-24 . 21+	SPC.-	-	S129	12AXD-38	6	PSW-E11	HSJFP	75	121210 P02	022		
100	SPIRE PSW Ch21-24 . 21-	SPC.-	-	S129	12AXD-38	6		HSJFP	75	121210 P02	009		
128	SPIRE PSW Ch21-24 . 21gnd	SPC.-	-	S129	12AXD-38	6	Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013		
110	SPIRE PSW Ch21-24 . 22+	SPC.-	-	S129	12AXD-38	6	PSW-A11	HSJFP	75	121210 P02	023		

**Pin Allocation List**  
(Harness)**Connector:** 211121 J28**Item:** CVVUCR**EMC-Category:** 2C/Sig H in Cryostat**Function:** UFTnr 263.2° (SPIRE XS-09 JFP 1,2,3,4)**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)**Conn.-Type:** 197-011P24-35P (Junct.)**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable						
111	SPIRE PSW Ch21-24 . 22-	SPC.-	-	S129	12AXD-38	6			HSJFP	75	121210 P02	010	
128	SPIRE PSW Ch21-24 . 22gnd	SPC.-	-	S129	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013	
118	SPIRE PSW Ch21-24 . 23+	SPC.-	-	S129	12AXD-38	6		PSW-C11	HSJFP	75	121210 P02	024	
119	SPIRE PSW Ch21-24 . 23-	SPC.-	-	S129	12AXD-38	6			HSJFP	75	121210 P02	011	
128	SPIRE PSW Ch21-24 . 23gnd	SPC.-	-	S129	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013	
112	SPIRE PSW Ch21-24 . 24+	SPC.-	-	S129	12AXD-38	6		PSB-B11	HSJFP	75	121210 P02	025	
120	SPIRE PSW Ch21-24 . 24-	SPC.-	-	S129	12AXD-38	6			HSJFP	75	121210 P02	012	
128	SPIRE PSW Ch21-24 . 24gnd	SPC.-	-	S129	12AXD-38	6		Daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013	
128	SPIRE PSW Ch21-24 . SHD03	SPC.-	-	S129	12AXD-38	6		Cable S129 inner Shd daisy ch to Pin 128 (A2)	HSJFP	75	121210 P02	013	
-	Cable S129 outer Shield							Cable S129 outer Shd con to Busbar (Faraday)					
047	SPIRE PLW B09 GND WIRE A3	SPX.-	-	S493	010B0-30			Con to Cable from P03 GND/Shds	HSJFP	75	121210 P03	013	
090	SPIRE PSW Ch25-28 . 25+	SPC.-	-	S131	12AXD-38	7		PSW-E1	HSJFP	75	121210 P03	001	
079	SPIRE PSW Ch25-28 . 25-	SPC.-	-	S131	12AXD-38	7			HSJFP	75	121210 P03	014	
047	SPIRE PSW Ch25-28 . 25gnd	SPC.-	-	S131	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
102	SPIRE PSW Ch25-28 . 26+	SPC.-	-	S131	12AXD-38	7		PSW-F1	HSJFP	75	121210 P03	002	
101	SPIRE PSW Ch25-28 . 26-	SPC.-	-	S131	12AXD-38	7			HSJFP	75	121210 P03	015	
047	SPIRE PSW Ch25-28 . 26gnd	SPC.-	-	S131	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
092	SPIRE PSW Ch25-28 . 27+	SPC.-	-	S131	12AXD-38	7		PSW-T2	HSJFP	75	121210 P03	003	
091	SPIRE PSW Ch25-28 . 27-	SPC.-	-	S131	12AXD-38	7			HSJFP	75	121210 P03	016	
047	SPIRE PSW Ch25-28 . 27gnd	SPC.-	-	S131	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
103	SPIRE PSW Ch25-28 . 28+	SPC.-	-	S131	12AXD-38	7		PSW-H1	HSJFP	75	121210 P03	004	
113	SPIRE PSW Ch25-28 . 28-	SPC.-	-	S131	12AXD-38	7			HSJFP	75	121210 P03	017	
047	SPIRE PSW Ch25-28 . 28gnd	SPC.-	-	S131	12AXD-38	7		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
047	SPIRE PSW Ch25-28 . SHD01	SPC.-	-	S131	12AXD-38	7		Cable S131 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
-	Cable S131 outer Shield							Cable S131 outer Shd con to Busbar (Faraday)					

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-5 (of 8)

Connector: 211121 J28

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
058	SPIRE PSW Ch29-32 . 29+	SPC.-	-	S132	12AXD-38	8		PSW-G1	HSJFP	75	121210 P03	005	
046	SPIRE PSW Ch29-32 . 29-	SPC.-	-	S132	12AXD-38	8			HSJFP	75	121210 P03	018	
047	SPIRE PSW Ch29-32 . 29gnd	SPC.-	-	S132	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
068	SPIRE PSW Ch29-32 . 30+	SPC.-	-	S132	12AXD-38	8		PSW-J1	HSJFP	75	121210 P03	006	
057	SPIRE PSW Ch29-32 . 30-	SPC.-	-	S132	12AXD-38	8			HSJFP	75	121210 P03	019	
047	SPIRE PSW Ch29-32 . 30gnd	SPC.-	-	S132	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
069	SPIRE PSW Ch29-32 . 31+	SPC.-	-	S132	12AXD-38	8		PSW-H2	HSJFP	75	121210 P03	020	
080	SPIRE PSW Ch29-32 . 31-	SPC.-	-	S132	12AXD-38	8			HSJFP	75	121210 P03	007	
047	SPIRE PSW Ch29-32 . 31gnd	SPC.-	-	S132	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
070	SPIRE PSW Ch29-32 . 32+	SPC.-	-	S132	12AXD-38	8		PSW-F2	HSJFP	75	121210 P03	021	
081	SPIRE PSW Ch29-32 . 32-	SPC.-	-	S132	12AXD-38	8			HSJFP	75	121210 P03	008	
047	SPIRE PSW Ch29-32 . 32gnd	SPC.-	-	S132	12AXD-38	8		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
047	SPIRE PSW Ch29-32 . SHD02	SPC.-	-	S132	12AXD-38	8		Cable S132 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
-	Cable S132 outer Shield							Cable S132 outer Shd con to Busbar (Faraday)					
023	SPIRE PSW Ch33-36 . 33+	SPC.-	-	S133	12AXD-38	9		PSW-J2	HSJFP	75	121210 P03	022	
034	SPIRE PSW Ch33-36 . 33-	SPC.-	-	S133	12AXD-38	9			HSJFP	75	121210 P03	009	
047	SPIRE PSW Ch33-36 . 33gnd	SPC.-	-	S133	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
033	SPIRE PSW Ch33-36 . 34+	SPC.-	-	S133	12AXD-38	9		PSW-G2	HSJFP	75	121210 P03	023	
045	SPIRE PSW Ch33-36 . 34-	SPC.-	-	S133	12AXD-38	9			HSJFP	75	121210 P03	010	
047	SPIRE PSW Ch33-36 . 34gnd	SPC.-	-	S133	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
044	SPIRE PSW Ch33-36 . 35+	SPC.-	-	S133	12AXD-38	9		PSW-H3	HSJFP	75	121210 P03	024	
056	SPIRE PSW Ch33-36 . 35-	SPC.-	-	S133	12AXD-38	9			HSJFP	75	121210 P03	011	
047	SPIRE PSW Ch33-36 . 35gnd	SPC.-	-	S133	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
022	SPIRE PSW Ch33-36 . 36+	SPC.-	-	S133	12AXD-38	9		PSW-J3	HSJFP	75	121210 P03	025	
032	SPIRE PSW Ch33-36 . 36-	SPC.-	-	S133	12AXD-38	9			HSJFP	75	121210 P03	012	
047	SPIRE PSW Ch33-36 . 36gnd	SPC.-	-	S133	12AXD-38	9		Daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	

# Pin Allocation List

(Harness)

**Connector:** 211121 J28  
**Item:** CVVUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
047	SPIRE PSW Ch33-36 . SHD03	SPC.-	-	S133	12AXD-38	9		Cable S133 inner Shd daisy ch to Pin 047 (A3)	HSJFP	75	121210 P03	013	
-	Cable S133 outer Shield							Cable S133 outer Shd con to Busbar (Faraday)					
-													
004	SPIRE PLW B09 GND WIRE A4	SPX.-	-	S494	010B0-30			Con to Cable from P04 GND/Shds	HSJFP	75	121210 P04	013	
-													
013	SPIRE PSW Ch37-40 . 37+	SPC.-	-	S136	12AXD-38	10		PSW-E2	HSJFP	75	121210 P04	001	
012	SPIRE PSW Ch37-40 . 37-	SPC.-	-	S136	12AXD-38	10			HSJFP	75	121210 P04	014	
004	SPIRE PSW Ch37-40 . 37gnd	SPC.-	-	S136	12AXD-38	10		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
-													
021	SPIRE PSW Ch37-40 . 38+	SPC.-	-	S136	12AXD-38	10		PSW-F3	HSJFP	75	121210 P04	002	
020	SPIRE PSW Ch37-40 . 38-	SPC.-	-	S136	12AXD-38	10			HSJFP	75	121210 P04	015	
004	SPIRE PSW Ch37-40 . 38gnd	SPC.-	-	S136	12AXD-38	10		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
-													
031	SPIRE PSW Ch37-40 . 39+	SPC.-	-	S136	12AXD-38	10		PSW-G3	HSJFP	75	121210 P04	003	
043	SPIRE PSW Ch37-40 . 39-	SPC.-	-	S136	12AXD-38	10			HSJFP	75	121210 P04	016	
004	SPIRE PSW Ch37-40 . 39gnd	SPC.-	-	S136	12AXD-38	10		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
-													
042	SPIRE PSW Ch37-40 . 40+	SPC.-	-	S136	12AXD-38	10		PSW-H4	HSJFP	75	121210 P04	004	
054	SPIRE PSW Ch37-40 . 40-	SPC.-	-	S136	12AXD-38	10			HSJFP	75	121210 P04	017	
004	SPIRE PSW Ch37-40 . 40gnd	SPC.-	-	S136	12AXD-38	10		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
004	SPIRE PSW Ch37-40 . SHD01	SPC.-	-	S136	12AXD-38	10		Cable S136 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
-	Cable S136 outer Shield							Cable S136 outer Shd con to Busbar (Faraday)					
-													
010	SPIRE PSW Ch41-44 . 41+	SPC.-	-	S137	12AXD-38	11		PSW-J4	HSJFP	75	121210 P04	005	
011	SPIRE PSW Ch41-44 . 41-	SPC.-	-	S137	12AXD-38	11			HSJFP	75	121210 P04	018	
004	SPIRE PSW Ch41-44 . 41gnd	SPC.-	-	S137	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
-													
019	SPIRE PSW Ch41-44 . 42+	SPC.-	-	S137	12AXD-38	11		PSW-E3	HSJFP	75	121210 P04	006	
029	SPIRE PSW Ch41-44 . 42-	SPC.-	-	S137	12AXD-38	11			HSJFP	75	121210 P04	019	
004	SPIRE PSW Ch41-44 . 42gnd	SPC.-	-	S137	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	

# Pin Allocation List (Harness)

**Connector:** 211121 J28

**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
041	SPIRE PSW Ch41-44 . 43+	SPC-	-	S137	12AXD-38	11		PSW-F4	HSJFP	75	121210 P04	020	
030	SPIRE PSW Ch41-44 . 43-	SPC-	-	S137	12AXD-38	11			HSJFP	75	121210 P04	007	
004	SPIRE PSW Ch41-44 . 43gnd	SPC-	-	S137	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
053	SPIRE PSW Ch41-44 . 44+	SPC-	-	S137	12AXD-38	11		PSW-G4	HSJFP	75	121210 P04	021	
052	SPIRE PSW Ch41-44 . 44-	SPC-	-	S137	12AXD-38	11			HSJFP	75	121210 P04	008	
004	SPIRE PSW Ch41-44 . 44gnd	SPC-	-	S137	12AXD-38	11		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
004	SPIRE PSW Ch41-44 . SHD02	SPC-	-	S137	12AXD-38	11		Cable S137 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
-	Cable S137 outer Shield							Cable S137 outer Shd con to Busbar (Faraday)					
009	SPIRE PSW Ch45-48 . 45+	SPC-	-	S138	12AXD-38	12		PSW-H5	HSJFP	75	121210 P04	022	
017	SPIRE PSW Ch45-48 . 45-	SPC-	-	S138	12AXD-38	12			HSJFP	75	121210 P04	009	
004	SPIRE PSW Ch45-48 . 45gnd	SPC-	-	S138	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
018	SPIRE PSW Ch45-48 . 46+	SPC-	-	S138	12AXD-38	12		PSW-E4	HSJFP	75	121210 P04	023	
028	SPIRE PSW Ch45-48 . 46-	SPC-	-	S138	12AXD-38	12			HSJFP	75	121210 P04	010	
004	SPIRE PSW Ch45-48 . 46gnd	SPC-	-	S138	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
016	SPIRE PSW Ch45-48 . 47+	SPC-	-	S138	12AXD-38	12		PSW-J5	HSJFP	75	121210 P04	024	
027	SPIRE PSW Ch45-48 . 47-	SPC-	-	S138	12AXD-38	12			HSJFP	75	121210 P04	011	
004	SPIRE PSW Ch45-48 . 47gnd	SPC-	-	S138	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
040	SPIRE PSW Ch45-48 . 48+	SPC-	-	S138	12AXD-38	12		PSW-F5	HSJFP	75	121210 P04	025	
039	SPIRE PSW Ch45-48 . 48-	SPC-	-	S138	12AXD-38	12			HSJFP	75	121210 P04	012	
004	SPIRE PSW Ch45-48 . 48gnd	SPC-	-	S138	12AXD-38	12		Daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
004	SPIRE PSW Ch45-48 . SHD03	SPC-	-	S138	12AXD-38	12		Cable S138 inner Shd daisy ch to Pin 004 (A4)	HSJFP	75	121210 P04	013	
-	Cable S138 outer Shield							Cable S138 outer Shd con to Busbar (Faraday)					
001	Faraday Pins							Connected to Busbar					
002	Faraday Pins							Connected to Busbar					
003	Faraday Pins							Connected to Busbar					
005	Faraday Pins							Connected to Busbar					
006	Faraday Pins							Connected to Busbar					



Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

**Connector:** 211121 J28

**Item:** CVUUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)

**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
007	Faraday Pins							Connected to Busbar					
008	Faraday Pins							Connected to Busbar					
014	Faraday Pins							Connected to Busbar					
015	Faraday Pins							Connected to Busbar					
024	Faraday Pins							Connected to Busbar					
025	Faraday Pins							Connected to Busbar					
035	Faraday Pins							Connected to Busbar					
082	Faraday Pins							Connected to Busbar					
093	Faraday Pins							Connected to Busbar					
094	Faraday Pins							Connected to Busbar					
104	Faraday Pins							Connected to Busbar					
105	Faraday Pins							Connected to Busbar					
114	Faraday Pins							Connected to Busbar					
115	Faraday Pins							Connected to Busbar					
121	Faraday Pins							Connected to Busbar					
122	Faraday Pins							Connected to Busbar					
123	Faraday Pins							Connected to Busbar					
124	Faraday Pins							Connected to Busbar					
125	Faraday Pins							Connected to Busbar					
126	Faraday Pins							Connected to Busbar					
127	Faraday Pins							Connected to Busbar					
-	CH							CH isolated from Faraday Shds					
-								No Overall Shd at junction side					
-								Bundles isolated from S/C Structure					



# Pin Allocation List (Harness)

Connector: 211121 J34

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_OA

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal	Pos.	Ch. ID	Wiring						
029	SPIRE SorptPumpTemp(N) . I+	S3E.-	-	S234	041SS-38	1	Cable S234 to S238 Shd con together	HSFPU	70	121100 P19	020	
041	SPIRE SorptPumpTemp(N) . V+	S3E.-	-	S234	041SS-38	1		HSFPU	70	121100 P19	001	
042	SPIRE SorptPumpTemp(N) . V-	S3E.-	-	S234	041SS-38	1		HSFPU	70	121100 P19	002	
030	SPIRE SorptPumpTemp(N) . I-	S3E.-	-	S234	041SS-38	1		HSFPU	70	121100 P19	021	
031	SPIRE SorptPumpTemp(N) . SHD01	S3E.-	-	S234	041SS-38	1		HSFPU	70	121100 P19	003	
077	SPIRE EvaporatorTemp(N) . I+	S3E.-	-	S235	041SS-38	2	Cable S234 to S238 Shd con together	HSFPU	70	121100 P19	022	
066	SPIRE EvaporatorTemp(N) . V+	S3E.-	-	S235	041SS-38	2		HSFPU	70	121100 P19	004	
065	SPIRE EvaporatorTemp(N) . V-	S3E.-	-	S235	041SS-38	2		HSFPU	70	121100 P19	005	
076	SPIRE EvaporatorTemp(N) . I-	S3E.-	-	S235	041SS-38	2		HSFPU	70	121100 P19	023	
054	SPIRE EvaporatorTemp(N) . SHD02	S3E.-	-	S235	041SS-38	2		HSFPU	70	121100 P19	024	
053	SPIRE SorptPumpSwTemp(N) . I+	S3E.-	-	S236	041SS-38	3	Cable S234 to S238 Shd con together	HSFPU	70	121100 P19	025	
064	SPIRE SorptPumpSwTemp(N) . V+	S3E.-	-	S236	041SS-38	3		HSFPU	70	121100 P19	006	
063	SPIRE SorptPumpSwTemp(N) . V-	S3E.-	-	S236	041SS-38	3		HSFPU	70	121100 P19	007	
052	SPIRE SorptPumpSwTemp(N) . I-	S3E.-	-	S236	041SS-38	3		HSFPU	70	121100 P19	026	
075	SPIRE SorptPumpSwTemp(N) . SHD03	S3E.-	-	S236	041SS-38	3		HSFPU	70	121100 P19	008	
050	SPIRE EvaporSwTemp(N) . I+	S3E.-	-	S237	041SS-38	4	Cable S234 to S238 Shd con together	HSFPU	70	121100 P19	027	
062	SPIRE EvaporSwTemp(N) . V+	S3E.-	-	S237	041SS-38	4		HSFPU	70	121100 P19	009	
051	SPIRE EvaporSwTemp(N) . V-	S3E.-	-	S237	041SS-38	4		HSFPU	70	121100 P19	010	
061	SPIRE EvaporSwTemp(N) . I-	S3E.-	-	S237	041SS-38	4		HSFPU	70	121100 P19	028	
039	SPIRE EvaporSwTemp(N) . SHD04	S3E.-	-	S237	041SS-38	4		HSFPU	70	121100 P19	029	
011	SPIRE ThermShuntTemp(N) . I+A	S3E.-	-	S238	041SS-38	5	Cable S234 to S238 Shd con together	HSFPU	70	121100 P19	030	
019	SPIRE ThermShuntTemp(N) . V+B	S3E.-	-	S238	041SS-38	5		HSFPU	70	121100 P19	011	
018	SPIRE ThermShuntTemp(N) . V-A	S3E.-	-	S238	041SS-38	5		HSFPU	70	121100 P19	012	
010	SPIRE ThermShuntTemp(N) . I-B	S3E.-	-	S238	041SS-38	5		HSFPU	70	121100 P19	031	
020	SPIRE ThermShuntTemp(N) . SHD05	S3E.-	-	S238	041SS-38	5		HSFPU	70	121100 P19	013	
006	SPIRE SorptPumpHtr(N) . I+A	S3F.-	-	S239	040B0-30		Cable S234 to S238 Shd con together	HSFPU	70	121100 P19	014	
013	SPIRE SorptPumpHtr(N) . I+B	S3F.-	-	S239	040B0-30			HSFPU	70	121100 P19	032	
005	SPIRE SorptPumpHtr(N) . I-A	S3F.-	-	S239	040B0-30			HSFPU	70	121100 P19	015	
012	SPIRE SorptPumpHtr(N) . I-B	S3F.-	-	S239	040B0-30			HSFPU	70	121100 P19	033	

# Pin Allocation List (Harness)

Connector: 211121 J34

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
022	SPIRE SorptPumpSwHtr(N) . I+A	S3F.-	-	S240	040B0-30				HSFPU	70	121100 P19	016	
033	SPIRE SorptPumpSwHtr(N) . I+B	S3F.-	-	S240	040B0-30				HSFPU	70	121100 P19	034	
021	SPIRE SorptPumpSwHtr(N) . I-A	S3F.-	-	S240	040B0-30				HSFPU	70	121100 P19	017	
032	SPIRE SorptPumpSwHtr(N) . I-B	S3F.-	-	S240	040B0-30				HSFPU	70	121100 P19	035	
055	SPIRE EvaporSwHtr(N) . I+A	S3F.-	-	S241	040B0-30				HSFPU	70	121100 P19	018	
056	SPIRE EvaporSwHtr(N) . I+B	S3F.-	-	S241	040B0-30				HSFPU	70	121100 P19	036	
043	SPIRE EvaporSwHtr(N) . I-A	S3F.-	-	S241	040B0-30				HSFPU	70	121100 P19	019	
044	SPIRE EvaporSwHtr(N) . I-B	S3F.-	-	S241	040B0-30				HSFPU	70	121100 P19	037	
004	SPIRE FPU FC Faraday . SFF	SFF.-	-	S249	010B0-30			Cable P19 Faraday Shd con to Busbar tbc	HSFPU	70	121100 P19	CH	3. 3. 3.
111	SPIRE Spectr4%Temp (N) . I+	SCA.-	-	S242	041SS-38	9			HSFPU	70	121100 P21	005	
120	SPIRE Spectr4%Temp (N) . V+	SCA.-	-	S242	041SS-38	9			HSFPU	70	121100 P21	006	
128	SPIRE Spectr4%Temp (N) . V-	SCA.-	-	S242	041SS-38	9			HSFPU	70	121100 P21	024	
112	SPIRE Spectr4%Temp (N) . I-	SCA.-	-	S242	041SS-38	9		Cable S242 to S244 Shd con together	HSFPU	70	121100 P21	025	
121	SPIRE Spectr4%Temp (N) . SHD01	SCA.-	-	S242	041SS-38	9			HSFPU	70	121100 P21	023	
091	SPIRE Spectr2%Temp (N) . I+	SCA.-	-	S243	041SS-38	10			HSFPU	70	121100 P21	007	
092	SPIRE Spectr2%Temp (N) . V+	SCA.-	-	S243	041SS-38	10			HSFPU	70	121100 P21	008	
081	SPIRE Spectr2%Temp (N) . V-	SCA.-	-	S243	041SS-38	10			HSFPU	70	121100 P21	026	
080	SPIRE Spectr2%Temp (N) . I-	SCA.-	-	S243	041SS-38	10		Cable S242 to S244 Shd con together	HSFPU	70	121100 P21	027	
093	SPIRE Spectr2%Temp (N) . SHD02	SCA.-	-	S243	041SS-38	10			HSFPU	70	121100 P21	009	
114	SPIRE SpStimFlanTemp(N) . I+	SCA.-	-	S244	041SS-38	11			HSFPU	70	121100 P21	010	
113	SPIRE SpStimFlanTemp(N) . V+	SCA.-	-	S244	041SS-38	11			HSFPU	70	121100 P21	011	
103	SPIRE SpStimFlanTemp(N) . V-	SCA.-	-	S244	041SS-38	11			HSFPU	70	121100 P21	028	
104	SPIRE SpStimFlanTemp(N) . I-	SCA.-	-	S244	041SS-38	11		Cable S242 to S244 Shd con together	HSFPU	70	121100 P21	029	
102	SPIRE SpStimFlanTemp(N) . SHD03	SCA.-	-	S244	041SS-38	11			HSFPU	70	121100 P21	030	
035	SPIRE Spectr4%Heater (N) . I+A	SCB.-	-	S245	040B0-30				HSFPU	70	121100 P21	014	
024	SPIRE Spectr4%Heater (N) . I+B	SCB.-	-	S245	040B0-30				HSFPU	70	121100 P21	015	
034	SPIRE Spectr4%Heater (N) . I-A	SCB.-	-	S245	040B0-30				HSFPU	70	121100 P21	033	

# Pin Allocation List

(Harness)

**Connector:** 211121 J34  
**Item:** CWUUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)  
**Location:** 33 / CWV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
023	SPIRE Spectr4%Heater (N) . I-B	SCB.- -	S245	040B0-30			HSFPU	70	121100 P21	034	
046	SPIRE Spectr2%Heater (N) . I+A	SCB.- -	S246	040B0-30			HSFPU	70	121100 P21	016	
058	SPIRE Spectr2%Heater (N) . I+B	SCB.- -	S246	040B0-30			HSFPU	70	121100 P21	017	
045	SPIRE Spectr2%Heater (N) . I-A	SCB.- -	S246	040B0-30			HSFPU	70	121100 P21	035	
057	SPIRE Spectr2%Heater (N) . I-B	SCB.- -	S246	040B0-30			HSFPU	70	121100 P21	036	
047	SPIRE FPU FSS Faraday . SFF	SFF.- -	S251	010B0-30		Cable P21 Faraday Shd con to Busbar fbc	HSFPU	70	121100 P21	CH	3. 3. 3.
089	SPIRE FilterTemp(N) . I+	STA.- -	S253	041SS-38	19		HSFPU	70	121100 P23	020	
100	SPIRE FilterTemp(N) . V+	STA.- -	S253	041SS-38	19		HSFPU	70	121100 P23	002	
099	SPIRE FilterTemp(N) . V-	STA.- -	S253	041SS-38	19		HSFPU	70	121100 P23	003	
088	SPIRE FilterTemp(N) . I-	STA.- -	S253	041SS-38	19		HSFPU	70	121100 P23	021	
101	SPIRE FilterTemp(N) . SHD06	STA.- -	S253	041SS-38	19	Cable S253 to S258 Shd con together	HSFPU	70	121100 P23	001	
118	SPIRE SpectDetBoxTemp(N) . I+	STA.- -	S254	041SS-38	14		HSFPU	70	121100 P23	004	
125	SPIRE SpectDetBoxTemp(N) . V+	STA.- -	S254	041SS-38	14		HSFPU	70	121100 P23	023	
126	SPIRE SpectDetBoxTemp(N) . V-	STA.- -	S254	041SS-38	14		HSFPU	70	121100 P23	024	
119	SPIRE SpectDetBoxTemp(N) . I-	STA.- -	S254	041SS-38	14		HSFPU	70	121100 P23	005	
110	SPIRE SpectDetBoxTemp(N) . SHD01	STA.- -	S254	041SS-38	14	Cable S253 to S258 Shd con together	HSFPU	70	121100 P23	022	
123	SPIRE PhotomDetBoxTemp(N) . I+	STA.- -	S255	041SS-38	15		HSFPU	70	121100 P23	025	
116	SPIRE PhotomDetBoxTemp(N) . V+	STA.- -	S255	041SS-38	15		HSFPU	70	121100 P23	007	
117	SPIRE PhotomDetBoxTemp(N) . V-	STA.- -	S255	041SS-38	15		HSFPU	70	121100 P23	008	
124	SPIRE PhotomDetBoxTemp(N) . I-	STA.- -	S255	041SS-38	15		HSFPU	70	121100 P23	026	
108	SPIRE PhotomDetBoxTemp(N) . SHD02	STA.- -	S255	041SS-38	15	Cable S253 to S258 Shd con together	HSFPU	70	121100 P23	006	
106	SPIRE OptSubbenchTemp(N) . I+	STA.- -	S256	041SS-38	16		HSFPU	70	121100 P23	009	
107	SPIRE OptSubbenchTemp(N) . V+	STA.- -	S256	041SS-38	16		HSFPU	70	121100 P23	028	
122	SPIRE OptSubbenchTemp(N) . V-	STA.- -	S256	041SS-38	16		HSFPU	70	121100 P23	029	
115	SPIRE OptSubbenchTemp(N) . I-	STA.- -	S256	041SS-38	16		HSFPU	70	121100 P23	010	
105	SPIRE OptSubbenchTemp(N) . SHD03	STA.- -	S256	041SS-38	16	Cable S253 to S258 Shd con together	HSFPU	70	121100 P23	027	
097	SPIRE FPUInpBaffleTemp(N) . I+	STA.- -	S257	041SS-38	17		HSFPU	70	121100 P23	030	

# Pin Allocation List (Harness)

**Connector:** 211121 J34

**Item:** CVUUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)

**Location:** 33 / CVV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
086	SPIRE FPUJnpBaffleTmp(N) . V+	STA.-	-	S257	041SS-38	17			HSFPU	70	121100 P23	012	
087	SPIRE FPUJnpBaffleTmp(N) . V-	STA.-	-	S257	041SS-38	17			HSFPU	70	121100 P23	013	
098	SPIRE FPUJnpBaffleTmp(N) . I-	STA.-	-	S257	041SS-38	17			HSFPU	70	121100 P23	031	
109	SPIRE FPUJnpBaffleTmp(N) . SHD04	STA.-	-	S257	041SS-38	17		Cable S253 to S258 Shd con together	HSFPU	70	121100 P23	011	
073	SPIRE BSM/SOB I/FTmp(N) . I+	STA.-	-	S258	041SS-38	18			HSFPU	70	121100 P23	014	
074	SPIRE BSM/SOB I/FTmp(N) . V+	STA.-	-	S258	041SS-38	18			HSFPU	70	121100 P23	033	
085	SPIRE BSM/SOB I/FTmp(N) . V-	STA.-	-	S258	041SS-38	18			HSFPU	70	121100 P23	034	
084	SPIRE BSM/SOB I/FTmp(N) . I-	STA.-	-	S258	041SS-38	18			HSFPU	70	121100 P23	015	
096	SPIRE BSM/SOB I/FTmp(N) . SHD05	STA.-	-	S258	041SS-38	18		Cable S253 to S258 Shd con together	HSFPU	70	121100 P23	032	
079	SPIRE PTC Htr(N) . I+A	STB.-	-	S259	041BS-30	20			HSFPU	70	121100 P23	017	
078	SPIRE PTC Htr(N) . I+B	STB.-	-	S259	041BS-30	20			HSFPU	70	121100 P23	018	
068	SPIRE PTC Htr(N) . I-A	STB.-	-	S259	041BS-30	20			HSFPU	70	121100 P23	036	
067	SPIRE PTC Htr(N) . I-B	STB.-	-	S259	041BS-30	20			HSFPU	70	121100 P23	037	
090	SPIRE PTC Htr(N) . SHD07	STB.-	-	S259	041BS-30	20		Cable S259Shd	HSFPU	70	121100 P23	035	
094	SPIRE FPU TP Faraday . SFF	SFF.-	-	S250	010B0-30			Cable P23 Faraday Shd con to Busbar tbc	HSFPU	70	121100 P23	CH	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					
004	Faraday Pins							Connected to Busbar ECR0039tbc					3.
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					
015	Faraday Pins							Connected to Busbar ECR0039tbc					

**Astrium GmbH**

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0      Date: 21.04.2004  
 Sheet: PAL-5 (of 5)

**Connector:** 211121 J34

**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
025	Faraday Pins							Connected to Busbar ECR0039tbc					
036	Faraday Pins							Connected to Busbar ECR0039tbc					
047	Faraday Pins							Connected to Busbar ECR0039tbc					
059	Faraday Pins							Connected to Busbar ECR0039tbc					
070	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	CH							CH isolated from Farady Shds					
-	Connector Housing							No Overall Shd at junction side					







# Pin Allocation List

(Harness)

**Connector:** 211121 J30

**Item:** CWUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)

**Location:** 33 / CW I/F CB Top PFM (CWUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
051	SPIRE ChopSensor1&2(N) . 1	SBA-	-	S041	021SS-38	1			HSFPU	70	121100 P25	001	
040	SPIRE ChopSensor1&2(N) . 2	SBA-	-	S041	021SS-38	1			HSFPU	70	121100 P25	020	
039	SPIRE ChopSensor1&2(N) . SHD01	SBA-	-	S041	021SS-38	1		Cable S041, 043, 045, 048 Shd con together (Pin 39,26,27,38)	HSFPU	70	121100 P25	022	
028	SPIRE ChopSensor3-5(N) . 3	SBB-	-	S043	031BS-38	3			HSFPU	70	121100 P25	002	
017	SPIRE ChopSensor3-5(N) . 4	SBB-	-	S043	031BS-38	3			HSFPU	70	121100 P25	021	
016	SPIRE ChopSensor3-5(N) . 5	SBB-	-	S043	031BS-38	3			HSFPU	70	121100 P25	003	
027	SPIRE ChopSensor3-5(N) . SHD03	SBB-	-	S043	031BS-38	3		Cable S041, 043, 045, 048 Shd con together (Pin 39,26,27,38)	HSFPU	70	121100 P25	022	
049	SPIRE JigglesSensor1&2(N) . 1	SBA-	-	S045	021SS-38	2			HSFPU	70	121100 P25	004	
050	SPIRE JigglesSensor1&2(N) . 2	SBA-	-	S045	021SS-38	2			HSFPU	70	121100 P25	023	
038	SPIRE JigglesSensor1&2(N) . SHD02	SBA-	-	S045	021SS-38	2		Cable S041, 043, 045, 048 Shd con together (Pin 39,26,27,38)	HSFPU	70	121100 P25	022	
015	SPIRE JigglesSensor3-5(N) . 3	SBB-	-	S048	031BS-38	4			HSFPU	70	121100 P25	005	
025	SPIRE JigglesSensor3-5(N) . 4	SBB-	-	S048	031BS-38	4			HSFPU	70	121100 P25	024	
037	SPIRE JigglesSensor3-5(N) . 5	SBB-	-	S048	031BS-38	4			HSFPU	70	121100 P25	006	
026	SPIRE JigglesSensor3-5(N) . SHD04	SBB-	-	S048	031BS-38	4		Cable S041, 043, 045, 048 Shd con together (Pin 39,26,27,38)	HSFPU	70	121100 P25	022	
086	SPIRE BSMTemp(N) . I+	SBC-	-	S103	041SS-38	5			HSFPU	70	121100 P25	007	
097	SPIRE BSMTemp(N) . V+	SBC-	-	S103	041SS-38	5			HSFPU	70	121100 P25	026	
098	SPIRE BSMTemp(N) . V-	SBC-	-	S103	041SS-38	5			HSFPU	70	121100 P25	008	
087	SPIRE BSMTemp(N) . I-	SBC-	-	S103	041SS-38	5			HSFPU	70	121100 P25	027	
075	SPIRE BSMTemp(N) . SHD05	SBC-	-	S103	041SS-38	5		Cable S103 Shd	HSFPU	70	121100 P25	025	
048	SPIRE P-Cal Htr(N) . I+A	SBD-	-	S260	041BS-30	6			HSFPU	70	121100 P25	028	
071	SPIRE P-Cal Htr(N) . I+B	SBD-	-	S260	041BS-30	6			HSFPU	70	121100 P25	010	
060	SPIRE P-Cal Htr(N) . I-A	SBD-	-	S260	041BS-30	6			HSFPU	70	121100 P25	029	
059	SPIRE P-Cal Htr(N) . I-B	SBD-	-	S260	041BS-30	6			HSFPU	70	121100 P25	011	
036	SPIRE P-Cal Htr(N) . SHD06	SBD-	-	S260	041BS-30	6		Cable S260 Shd	HSFPU	70	121100 P25	009	
108	SPIRE BSMChLchConf(N) . 1	SBE-	-	S261	021SS-38	7			HSFPU	70	121100 P25	030	
116	SPIRE BSMChLchConf(N) . 2	SBE-	-	S261	021SS-38	7			HSFPU	70	121100 P25	012	
107	SPIRE BSMChLchConf(N) . SHD07	SBE-	-	S261	021SS-38	7		Cable S261 Shd	HSFPU	70	121100 P25	031	

# Pin Allocation List (Harness)

Connector: 211121 J30

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal			Pos.	Shd						
105	SPIRE BSMLatchDrive(N) . SUP		SBF.-	-	S262	021BS-30	8			HSFPU	70	121100 P25	013	
115	SPIRE BSMLatchDrive(N) . RTN		SBF.-	-	S262	021BS-30	8			HSFPU	70	121100 P25	032	
106	SPIRE BSMLatchDrive(N) . SHD08		SBF.-	-	S262	021BS-30	8		Cable S262 Shd	HSFPU	70	121100 P25	033	
072	SPIRE ChopMotDrive(N) . 1		SBG.-	-	S263	041BS-30	9			HSFPU	70	121100 P25	015	
061	SPIRE ChopMotDrive(N) . 2		SBG.-	-	S263	041BS-30	9			HSFPU	70	121100 P25	034	
062	SPIRE ChopMotDrive(N) . 3		SBG.-	-	S263	041BS-30	9			HSFPU	70	121100 P25	016	
074	SPIRE ChopMotDrive(N) . 4		SBG.-	-	S263	041BS-30	9			HSFPU	70	121100 P25	035	
073	SPIRE ChopMotDrive(N) . SHD09		SBG.-	-	S263	041BS-30	9		Cable S263, 264Shd con together (Pin 73 and 84)	HSFPU	70	121100 P25	017	
083	SPIRE JiggleMotDrive(N) . 1		SBG.-	-	S264	041BS-30	10			HSFPU	70	121100 P25	036	
095	SPIRE JiggleMotDrive(N) . 2		SBG.-	-	S264	041BS-30	10			HSFPU	70	121100 P25	018	
096	SPIRE JiggleMotDrive(N) . 3		SBG.-	-	S264	041BS-30	10			HSFPU	70	121100 P25	037	
085	SPIRE JiggleMotDrive(N) . 4		SBG.-	-	S264	041BS-30	10			HSFPU	70	121100 P25	019	
084	SPIRE JiggleMotDrive(N) . SHD10		SBG.-	-	S264	041BS-30	10		Cable S263, 264Shd con together (Pin 73 and 84)	HSFPU	70	121100 P25	017	
082	SPIRE FPU BSM Faraday . SFF		SFF.-	-	S252	010B0-30			Cable P25 Faraday Shd con to Busbar ECR0039tbc	HSFPU	70	121100 P25	CH	3. 3. 3.
117	SPIRE SMECLL1ch#1Cont(N) . 1+		SME.-	-	S265	021BS-30	16			HSFPU	70	121100 P27	001	
118	SPIRE SMECLL1ch#1Cont(N) . 1-		SME.-	-	S265	021BS-30	16			HSFPU	70	121100 P27	020	
109	SPIRE SMECLL1ch#1Cont(N) . SHD06		SME.-	-	S265	021BS-30	16		Cable S265 Shd (con to Faraday!) (A)	HSFPU	70	121100 P27	003	
111	SPIRE SMECLL1ch#2Cont(N) . 2+		SME.-	-	S266	021BS-30	17			HSFPU	70	121100 P27	002	
119	SPIRE SMECLL1ch#2Cont(N) . 2-		SME.-	-	S266	021BS-30	17			HSFPU	70	121100 P27	021	
110	SPIRE SMECLL1ch#2Cont(N) . SHD07		SME.-	-	S266	021BS-30	17		Cable S266 Shd (con to Faraday!) (A)	HSFPU	70	121100 P27	003	
067	SPIRE SMECLL1Pwr1/A(N) . S1		SMF.-	-	S267	021BS-30	18			HSFPU	70	121100 P27	022	
066	SPIRE SMECLL1Pwr1/A(N) . R1		SMF.-	-	S267	021BS-30	18			HSFPU	70	121100 P27	023	

# Pin Allocation List (Harness)

Connector: 211121 J30  
Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)  
Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
078	SPIRE SMECLL#1Pwr1(A/N) . SHD08	SMF.- -	S267	021BS-30	18		Cable S267 to 270 Shd con together (B) (Pin 78,80,79,81)	HSFPU	70	121100 P27	004	
069	SPIRE SMECLL#1Pwr2(B/N) . S2	SMF.- -	S268	021BS-30	19			HSFPU	70	121100 P27	005	
068	SPIRE SMECLL#1Pwr2(B/N) . R2	SMF.- -	S268	021BS-30	19			HSFPU	70	121100 P27	006	
080	SPIRE SMECLL#1Pwr2(B/N) . SHD09	SMF.- -	S268	021BS-30	19		Cable S267 to 270 Shd con together (B) (Pin 78,80,79,81)	HSFPU	70	121100 P27	024	
090	SPIRE SMECLL#2Pwr1(A/N) . S1	SMF.- -	S269	021BS-30	20			HSFPU	70	121100 P27	025	
091	SPIRE SMECLL#2Pwr1(A/N) . R1	SMF.- -	S269	021BS-30	20			HSFPU	70	121100 P27	026	
079	SPIRE SMECLL#2Pwr1(A/N) . SHD10	SMF.- -	S269	021BS-30	20		Cable S267 to 270 Shd con together (B) (Pin 78,80,79,81)	HSFPU	70	121100 P27	007	
092	SPIRE SMECLL#2Pwr2(B/N) . S2	SMF.- -	S270	021BS-30	21			HSFPU	70	121100 P27	008	
093	SPIRE SMECLL#2Pwr2(B/N) . R2	SMF.- -	S270	021BS-30	21			HSFPU	70	121100 P27	009	
081	SPIRE SMECLL#2Pwr2(B/N) . SHD11	SMF.- -	S270	021BS-30	21		Cable S267 to 270 Shd con together (B) (Pin 78,80,79,81)	HSFPU	70	121100 P27	027	
088	SPIRE SMECTemp(N) . I+	SMC.- -	S271	041SS-38	14			HSFPU	70	121100 P27	028	
099	SPIRE SMECTemp(N) . V+	SMC.- -	S271	041SS-38	14			HSFPU	70	121100 P27	010	
100	SPIRE SMECTemp(N) . V-	SMC.- -	S271	041SS-38	14			HSFPU	70	121100 P27	029	
089	SPIRE SMECTemp(N) . I-	SMC.- -	S271	041SS-38	14			HSFPU	70	121100 P27	011	
077	SPIRE SMECTemp(N) . SHD04	SMC.- -	S271	041SS-38	14		Cable S271,272 Shd con together (C) (Pin 77,76)	HSFPU	70	121100 P27	030	
054	SPIRE SMEC/SOB /FTmp(N) . I+	SMC.- -	S272	041SS-38	15			HSFPU	70	121100 P27	031	
065	SPIRE SMEC/SOB /FTmp(N) . V+	SMC.- -	S272	041SS-38	15			HSFPU	70	121100 P27	013	
064	SPIRE SMEC/SOB /FTmp(N) . V-	SMC.- -	S272	041SS-38	15			HSFPU	70	121100 P27	032	
053	SPIRE SMEC/SOB /FTmp(N) . I-	SMC.- -	S272	041SS-38	15			HSFPU	70	121100 P27	014	
076	SPIRE SMEC/SOB /FTmp(N) . SHD05	SMC.- -	S272	041SS-38	15		Cable S271,272 Shd con together (C) (Pin 77,76)	HSFPU	70	121100 P27	012	
101	SPIRE SMECLVDTPrICIPw(N) . P	SMA.- -	S273	021BS-30	11			HSFPU	70	121100 P27	033	
102	SPIRE SMECLVDTPrICIPw(N) . N	SMA.- -	S273	021BS-30	11			HSFPU	70	121100 P27	034	

# Pin Allocation List (Harness)

Connector: 211121 J30

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
112	SPIRE SMECLVDTPrIPw(N) . SHD01	SMA.-	-	S273	021BS-30	11		Cable S273 to 275 Shd con together (D) (Pin 112, 128, 121)	HSFPU	70	121100 P27	015	
127	SPIRE SMECLVDTSCI#1Sg(N) . P	SMB.-	-	S274	021BS-30	12			HSFPU	70	121100 P27	035	
120	SPIRE SMECLVDTSCI#1Sg(N) . N	SMB.-	-	S274	021BS-30	12			HSFPU	70	121100 P27	036	
128	SPIRE SMECLVDTSCI#1Sg(N) . SHD02	SMB.-	-	S274	021BS-30	12		Cable S273 to 275 Shd con together (D) (Pin 112, 128, 121)	HSFPU	70	121100 P27	017	
114	SPIRE SMECLVDTSCI#2Sg(N) . P	SMB.-	-	S275	021BS-30	13			HSFPU	70	121100 P27	018	
113	SPIRE SMECLVDTSCI#2Sg(N) . N	SMB.-	-	S275	021BS-30	13			HSFPU	70	121100 P27	019	
121	SPIRE SMECLVDTSCI#2Sg(N) . SHD03	SMB.-	-	S275	021BS-30	13		Cable S273 to 275 Shd con together (D) (Pin 112, 128, 121)	HSFPU	70	121100 P27	037	
104	SPIRE FPU SMEC Faraday . SFF	SFF.-	-	S300	010B0-30			Cable P27 Faraday Shd con to Busbar ECR0039tbc	HSFPU	70	121100 P27	CH	3. 3. 3.
012	SPIRE SMEC Drv Coil (N) . I+	SMD.-	-	S276	021BS-30	22			HSFPU	70	121100 P29	001	
005	SPIRE SMEC Drv Coil (N) . I-	SMD.-	-	S276	021BS-30	22			HSFPU	70	121100 P29	002	
013	SPIRE SMEC Drv Coil (N) . SHD01	SMD.-	-	S276	021BS-30	22		Cable S276, 277 con together (A)	HSFPU	70	121100 P29	020	
022	SPIRE SMEC Drv Coil (Rob) (N) . I+	SMD.-	-	S277	021BS-30	23			HSFPU	70	121100 P29	021	
007	SPIRE SMEC Drv Coil (Rob) (N) . I-	SMD.-	-	S277	021BS-30	23			HSFPU	70	121100 P29	022	
013	SPIRE SMEC Drv Coil (Rob) (N) . SHD02	SMD.-	-	S277	021BS-30	23		Cable S276, 277 con together (A)	HSFPU	70	121100 P29	003	
014	SPIRE SMEC Drv Sense (N) . Sen+	SMG.-	-	S278	021BS-38	24			HSFPU	70	121100 P29	004	
024	SPIRE SMEC Drv Sense (N) . Sen-	SMG.-	-	S278	021BS-38	24			HSFPU	70	121100 P29	005	
023	SPIRE SMEC Drv Sense (N) . SHD03	SMG.-	-	S278	021BS-38	24		Cable S278 Shd	HSFPU	70	121100 P29	023	
009	SPIRE SMEC PosSeLEDPrwr(N) . S	SMH.-	-	S279	021BS-38	25			HSFPU	70	121100 P29	007	
002	SPIRE SMEC PosSeLEDPrwr(N) . R	SMH.-	-	S279	021BS-38	25			HSFPU	70	121100 P29	008	
003	SPIRE SMEC PosSeLEDPrwr(N) . SHD04	SMH.-	-	S279	021BS-38	25		Cable S279 Shd	HSFPU	70	121100 P29	026	

# Pin Allocation List (Harness)

Connector: 211121 J30  
Item: CWVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)  
Location: 33 / CWV I/F CB Top PFM (CWVUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
011	SPIRE SMEC PosSensPwr(N) . S	SMH.-	-	S280	021BS-38	26			HSFPU	70	121100 P29	027	
004	SPIRE SMEC PosSensPwr(N) . R	SMH.-	-	S280	021BS-38	26			HSFPU	70	121100 P29	028	
010	SPIRE SMEC PosSensPwr(N) . SHD05	SMH.-	-	S280	021BS-38	26		Cable S280 Shd	HSFPU	70	121100 P29	009	
018	SPIRE SMEC PosPhD#1(N) . I+	SMJ.-	-	S281	021SS-38	27			HSFPU	70	121100 P29	010	
019	SPIRE SMEC PosPhD#1(N) . I-	SMJ.-	-	S281	021SS-38	27			HSFPU	70	121100 P29	011	
029	SPIRE SMEC PosPhD#1(N) . SHD06	SMJ.-	-	S281	021SS-38	27		Cable S281, 283,285 Shd con together (B) (Pin 29, 30,31)	HSFPU	70	121100 P29	029	
056	SPIRE SMEC PosPhD#1FB(N) . S	SMK.-	-	S282	021SS-38	30			HSFPU	70	121100 P29	030	
055	SPIRE SMEC PosPhD#1FB(N) . R	SMK.-	-	S282	021SS-38	30			HSFPU	70	121100 P29	031	
044	SPIRE SMEC PosPhD#1FB(N) . SHD08	SMK.-	-	S282	021SS-38	30		Cable S282, 284,286 Shd con together (C) (Pin 44,45,46)	HSFPU	70	121100 P29	012	
042	SPIRE SMEC PosPhD#2(N) . I+	SMJ.-	-	S283	021SS-38	28			HSFPU	70	121100 P29	013	
041	SPIRE SMEC PosPhD#2(N) . I-	SMJ.-	-	S283	021SS-38	28			HSFPU	70	121100 P29	014	
030	SPIRE SMEC PosPhD#2(N) . SHD07	SMJ.-	-	S283	021SS-38	28		Cable S281, 283,285 Shd con together (B) (Pin 29,30,31)	HSFPU	70	121100 P29	032	
034	SPIRE SMEC PosPhD#2FB(N) . S	SMK.-	-	S284	021SS-38	31			HSFPU	70	121100 P29	033	
033	SPIRE SMEC PosPhD#2FB(N) . R	SMK.-	-	S284	021SS-38	31			HSFPU	70	121100 P29	034	
045	SPIRE SMEC PosPhD#2FB(N) . SHD10	SMK.-	-	S284	021SS-38	31		Cable S282, 284,286 Shd con together (C) (Pin 44,45,46)	HSFPU	70	121100 P29	015	
020	SPIRE SMEC PosPhD#3(N) . I+	SMJ.-	-	S285	021SS-38	29			HSFPU	70	121100 P29	016	
021	SPIRE SMEC PosPhD#3(N) . I-	SMJ.-	-	S285	021SS-38	29			HSFPU	70	121100 P29	017	
031	SPIRE SMEC PosPhD#3(N) . SHD08	SMJ.-	-	S285	021SS-38	29		Cable S281, 283,285 Shd con together (B) (Pin 29,30,31)	HSFPU	70	121100 P29	035	
058	SPIRE SMEC PosPhD#3FB(N) . S	SMK.-	-	S286	021SS-38	32			HSFPU	70	121100 P29	036	
057	SPIRE SMEC PosPhD#3FB(N) . R	SMK.-	-	S286	021SS-38	32			HSFPU	70	121100 P29	037	

# Pin Allocation List (Harness)

**Connector:** 211121 J30

**Item:** CUVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 283.0° (SPIRE XS-11 FPU 25.27,29)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)

**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
046	SPIRE SMEC PosPhD#3FB(N) . SHD11	SFF.- -	S301	010B0-30			Cable P29 Faraday Shd con to Busbar ECR0039tbc	HSFPU	70	121100 P29	CH	3. 3. 3.
001	Faraday Pins						Connected to Busbar ECR0039tbc					
006	Faraday Pins						Connected to Busbar ECR0039tbc					
008	Faraday Pins						Connected to Busbar ECR0039tbc					
035	Faraday Pins						Connected to Busbar ECR0039tbc					
047	Faraday Pins						Connected to Busbar ECR0039tbc					
070	Faraday Pins						Connected to Busbar ECR0039tbc					
082	Faraday Pins						Connected to Busbar ECR0039tbc					
094	Faraday Pins						Connected to Busbar ECR0039tbc					
104	Faraday Pins						Connected to Busbar ECR0039tbc					
107	Faraday Pins						Connected to Busbar ECR0039tbc					
109	Faraday Pins						Connected to Busbar ECR0039tbc					
110	Faraday Pins						Connected to Busbar ECR0039tbc					
122	Faraday Pins						Connected to Busbar ECR0039tbc					
123	Faraday Pins						Connected to Busbar ECR0039tbc					
124	Faraday Pins						Connected to Busbar ECR0039tbc					
125	Faraday Pins						Connected to Busbar ECR0039tbc					
126	Faraday Pins						Connected to Busbar ECR0039tbc					

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# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 7)

Connector: 211121 J30

Item: CVWUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)  
Location: 33 / CVW I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
-	Connector Housing					CH isolated from Faraday Shd No Bundle Overall Shd at junction side					







# Pin Allocation List (Harness)

Connector: 211121 J33

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal			Shd	Cable Twist						
029	SPIRE SorptPumpTemp(R) . I+		S3E.-	-	S287	041SS-38	1			HSFPU	70	121100 P20	020	
041	SPIRE SorptPumpTemp(R) . V+		S3E.-	-	S287	041SS-38	1			HSFPU	70	121100 P20	001	
042	SPIRE SorptPumpTemp(R) . V-		S3E.-	-	S287	041SS-38	1			HSFPU	70	121100 P20	002	
030	SPIRE SorptPumpTemp(R) . I-		S3E.-	-	S287	041SS-38	1			HSFPU	70	121100 P20	021	
031	SPIRE SorptPumpTemp(R) . SHD01		S3E.-	-	S287	041SS-38	1		Cable S287 to S291 Shd con together	HSFPU	70	121100 P20	003	
077	SPIRE EvaporatorTemp(R) . I+		S3E.-	-	S288	041SS-38	2			HSFPU	70	121100 P20	022	
066	SPIRE EvaporatorTemp(R) . V+		S3E.-	-	S288	041SS-38	2			HSFPU	70	121100 P20	004	
065	SPIRE EvaporatorTemp(R) . V-		S3E.-	-	S288	041SS-38	2			HSFPU	70	121100 P20	005	
076	SPIRE EvaporatorTemp(R) . I-		S3E.-	-	S288	041SS-38	2			HSFPU	70	121100 P20	023	
054	SPIRE EvaporatorTemp(R) . SHD02		S3E.-	-	S288	041SS-38	2		Cable S287 to S291 Shd con together	HSFPU	70	121100 P20	024	
053	SPIRE SorptPumpSwTemp(R) . I+		S3E.-	-	S289	041SS-38	3			HSFPU	70	121100 P20	025	
064	SPIRE SorptPumpSwTemp(R) . V+		S3E.-	-	S289	041SS-38	3			HSFPU	70	121100 P20	006	
063	SPIRE SorptPumpSwTemp(R) . V-		S3E.-	-	S289	041SS-38	3			HSFPU	70	121100 P20	007	
052	SPIRE SorptPumpSwTemp(R) . I-		S3E.-	-	S289	041SS-38	3			HSFPU	70	121100 P20	026	
075	SPIRE SorptPumpSwTemp(R) . SHD03		S3E.-	-	S289	041SS-38	3		Cable S287 to S291 Shd con together	HSFPU	70	121100 P20	008	
050	SPIRE EvaporSwTemp(R) . I+		S3E.-	-	S290	041SS-38	4			HSFPU	70	121100 P20	027	
062	SPIRE EvaporSwTemp(R) . V+		S3E.-	-	S290	041SS-38	4			HSFPU	70	121100 P20	009	
051	SPIRE EvaporSwTemp(R) . V-		S3E.-	-	S290	041SS-38	4			HSFPU	70	121100 P20	010	
061	SPIRE EvaporSwTemp(R) . I-		S3E.-	-	S290	041SS-38	4			HSFPU	70	121100 P20	028	
039	SPIRE EvaporSwTemp(R) . SHD04		S3E.-	-	S290	041SS-38	4		Cable S287 to S291 Shd con together	HSFPU	70	121100 P20	029	
011	SPIRE ThermShuntTemp(R) . I+A		S3E.-	-	S291	041SS-38	5			HSFPU	70	121100 P20	030	
019	SPIRE ThermShuntTemp(R) . V+B		S3E.-	-	S291	041SS-38	5			HSFPU	70	121100 P20	011	
018	SPIRE ThermShuntTemp(R) . V-A		S3E.-	-	S291	041SS-38	5			HSFPU	70	121100 P20	012	
010	SPIRE ThermShuntTemp(R) . I-B		S3E.-	-	S291	041SS-38	5			HSFPU	70	121100 P20	031	
020	SPIRE ThermShuntTemp(R) . SHD05		S3E.-	-	S291	041SS-38	5		Cable S287 to S291 Shd con together	HSFPU	70	121100 P20	013	
006	SPIRE SorptPumpHtr(R) . I+A		S3F.-	-	S292	040B0-30				HSFPU	70	121100 P20	014	
013	SPIRE SorptPumpHtr(R) . I+B		S3F.-	-	S292	040B0-30				HSFPU	70	121100 P20	032	
005	SPIRE SorptPumpHtr(R) . I-A		S3F.-	-	S292	040B0-30				HSFPU	70	121100 P20	015	
012	SPIRE SorptPumpHtr(R) . I-B		S3F.-	-	S292	040B0-30				HSFPU	70	121100 P20	033	

# Pin Allocation List

(Harness)

**Connector:** 211121 J33  
**Item:** CVUUCR  
**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)  
**Location:** 33 / CVV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
022	SPIRE SorptPumpSwHtr(R) . I+A	S3F.-	-	S293	040B0-30				HSFPU	70	121100 P20	016	
033	SPIRE SorptPumpSwHtr(R) . I+B	S3F.-	-	S293	040B0-30				HSFPU	70	121100 P20	034	
021	SPIRE SorptPumpSwHtr(R) . I-A	S3F.-	-	S293	040B0-30				HSFPU	70	121100 P20	017	
032	SPIRE SorptPumpSwHtr(R) . I-B	S3F.-	-	S293	040B0-30				HSFPU	70	121100 P20	035	
055	SPIRE EvaporSwHtr(R) . I+A	S3F.-	-	S294	040B0-30				HSFPU	70	121100 P20	018	
056	SPIRE EvaporSwHtr(R) . I+B	S3F.-	-	S294	040B0-30				HSFPU	70	121100 P20	036	
043	SPIRE EvaporSwHtr(R) . I-A	S3F.-	-	S294	040B0-30				HSFPU	70	121100 P20	019	
044	SPIRE EvaporSwHtr(R) . I-B	S3F.-	-	S294	040B0-30				HSFPU	70	121100 P20	037	
004	SPIRE FPU FC 2 Faraday . SFF	SFF.-	-	S304	010B0-30			Cable P20 Faraday Shd con to Busbar tbc	HSFPU	70	121100 P20	CH	3. 3. 3.
111	SPIRE Spectr4%Temp (R) . I+	SCA.-	-	S295	041SS-38	9			HSFPU	70	121100 P22	005	
120	SPIRE Spectr4%Temp (R) . V+	SCA.-	-	S295	041SS-38	9			HSFPU	70	121100 P22	006	
128	SPIRE Spectr4%Temp (R) . V-	SCA.-	-	S295	041SS-38	9			HSFPU	70	121100 P22	024	
112	SPIRE Spectr4%Temp (R) . I-	SCA.-	-	S295	041SS-38	9			HSFPU	70	121100 P22	025	
121	SPIRE Spectr4%Temp (R) . SHD01	SCA.-	-	S295	041SS-38	9		Cable S295 to S297 Shd con together	HSFPU	70	121100 P22	023	
091	SPIRE Spectr2%Temp (R) . I+	SCA.-	-	S296	041SS-38	10			HSFPU	70	121100 P22	007	
092	SPIRE Spectr2%Temp (R) . V+	SCA.-	-	S296	041SS-38	10			HSFPU	70	121100 P22	008	
081	SPIRE Spectr2%Temp (R) . V-	SCA.-	-	S296	041SS-38	10			HSFPU	70	121100 P22	026	
080	SPIRE Spectr2%Temp (R) . I-	SCA.-	-	S296	041SS-38	10			HSFPU	70	121100 P22	027	
093	SPIRE Spectr2%Temp (R) . SHD02	SCA.-	-	S296	041SS-38	10		Cable S295 to S297 Shd con together	HSFPU	70	121100 P22	009	
114	SPIRE SpStimFlanTemp(R) . I+	SCA.-	-	S297	041SS-38	11			HSFPU	70	121100 P22	010	
113	SPIRE SpStimFlanTemp(R) . V+	SCA.-	-	S297	041SS-38	11			HSFPU	70	121100 P22	011	
103	SPIRE SpStimFlanTemp(R) . V-	SCA.-	-	S297	041SS-38	11			HSFPU	70	121100 P22	028	
104	SPIRE SpStimFlanTemp(R) . I-	SCA.-	-	S297	041SS-38	11			HSFPU	70	121100 P22	029	
102	SPIRE SpStimFlanTemp(R) . SHD03	SCA.-	-	S297	041SS-38	11		Cable S295 to S297 Shd con together	HSFPU	70	121100 P22	030	
035	SPIRE Spectr4%Heater (R) . I+A	SCB.-	-	S298	040B0-30				HSFPU	70	121100 P22	014	
024	SPIRE Spectr4%Heater (R) . I+B	SCB.-	-	S298	040B0-30				HSFPU	70	121100 P22	015	

# Pin Allocation List (Harness)

Connector: 211121 J33  
Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
034	SPIRE Spectr4%Heater (R) . I-A	SCB.-	-	S298	040B0-30				HSFPU	70	121100 P22	033	
023	SPIRE Spectr4%Heater (R) . I-B	SCB.-	-	S298	040B0-30				HSFPU	70	121100 P22	034	
046	SPIRE Spectr2%Heater (R) . I-A	SCB.-	-	S299	040B0-30				HSFPU	70	121100 P22	016	
058	SPIRE Spectr2%Heater (R) . I-B	SCB.-	-	S299	040B0-30				HSFPU	70	121100 P22	017	
045	SPIRE Spectr2%Heater (R) . I-A	SCB.-	-	S299	040B0-30				HSFPU	70	121100 P22	035	
057	SPIRE Spectr2%Heater (R) . I-B	SCB.-	-	S299	040B0-30				HSFPU	70	121100 P22	036	
047	SPIRE FPU FSS2 Faraday . SFF	SFF.-	-	S303	010B0-30			Cable P22 Faraday Shd con to Busbar tbc	HSFPU	70	121100 P22	CH	3. 3. 3.
089	SPIRE FilterTemp(R) . I+	STA.-	-	S306	041SS-38	20			HSFPU	70	121100 P24	020	
100	SPIRE FilterTemp(R) . V+	STA.-	-	S306	041SS-38	20			HSFPU	70	121100 P24	002	
099	SPIRE FilterTemp(R) . V-	STA.-	-	S306	041SS-38	20			HSFPU	70	121100 P24	003	
088	SPIRE FilterTemp(R) . I-	STA.-	-	S306	041SS-38	20			HSFPU	70	121100 P24	021	
101	SPIRE FilterTemp(R) . SHD06	STA.-	-	S306	041SS-38	20		Cable S306 to S311Shd con together	HSFPU	70	121100 P24	001	
118	SPIRE SpectDetBoxTemp(R) . I+	STA.-	-	S307	041SS-38	15			HSFPU	70	121100 P24	004	
125	SPIRE SpectDetBoxTemp(R) . V+	STA.-	-	S307	041SS-38	15			HSFPU	70	121100 P24	023	
126	SPIRE SpectDetBoxTemp(R) . V-	STA.-	-	S307	041SS-38	15			HSFPU	70	121100 P24	024	
119	SPIRE SpectDetBoxTemp(R) . I-	STA.-	-	S307	041SS-38	15			HSFPU	70	121100 P24	005	
110	SPIRE SpectDetBoxTemp(R) . SHD01	STA.-	-	S307	041SS-38	15		Cable S306 to S311Shd con together	HSFPU	70	121100 P24	022	
123	SPIRE PhotomDetBoxTemp(R) . I+	STA.-	-	S308	041SS-38	16			HSFPU	70	121100 P24	025	
116	SPIRE PhotomDetBoxTemp(R) . V+	STA.-	-	S308	041SS-38	16			HSFPU	70	121100 P24	007	
117	SPIRE PhotomDetBoxTemp(R) . V-	STA.-	-	S308	041SS-38	16			HSFPU	70	121100 P24	008	
124	SPIRE PhotomDetBoxTemp(R) . I-	STA.-	-	S308	041SS-38	16			HSFPU	70	121100 P24	026	
108	SPIRE PhotomDetBoxTemp(R) . SHD02	STA.-	-	S308	041SS-38	16		Cable S306 to S311Shd con together	HSFPU	70	121100 P24	006	
106	SPIRE OptSubbenchTemp(R) . I+	STA.-	-	S309	041SS-38	17			HSFPU	70	121100 P24	009	
107	SPIRE OptSubbenchTemp(R) . V+	STA.-	-	S309	041SS-38	17			HSFPU	70	121100 P24	028	
122	SPIRE OptSubbenchTemp(R) . V-	STA.-	-	S309	041SS-38	17			HSFPU	70	121100 P24	029	
115	SPIRE OptSubbenchTemp(R) . I-	STA.-	-	S309	041SS-38	17			HSFPU	70	121100 P24	010	
105	SPIRE OptSubbenchTemp(R) . SHD03	STA.-	-	S309	041SS-38	17		Cable S306 to S311Shd con together	HSFPU	70	121100 P24	027	

# Pin Allocation List (Harness)

Connector: 211121 J33

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFTthr. 311.9° (SPIRE XS-12 FPU 20,22,24)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
097	SPIRE FPUImpBaffleTmp(R) . I+	STA.-	-	S310	041SS-38	18		Cable S306 to S311Shd con together	HSFPU	70	121100 P24	030	
098	SPIRE FPUImpBaffleTmp(R) . V+	STA.-	-	S310	041SS-38	18			HSFPU	70	121100 P24	012	
097	SPIRE FPUImpBaffleTmp(R) . V-	STA.-	-	S310	041SS-38	18			HSFPU	70	121100 P24	013	
098	SPIRE FPUImpBaffleTmp(R) . I-	STA.-	-	S310	041SS-38	18			HSFPU	70	121100 P24	031	
099	SPIRE FPUImpBaffleTmp(R) . SHD04	STA.-	-	S310	041SS-38	18			HSFPU	70	121100 P24	011	
073	SPIRE BSM/SOB I/FTmp(R) . I+	STA.-	-	S311	041SS-38	19		Cable S306 to S311Shd con together	HSFPU	70	121100 P24	014	
074	SPIRE BSM/SOB I/FTmp(R) . V+	STA.-	-	S311	041SS-38	19			HSFPU	70	121100 P24	033	
085	SPIRE BSM/SOB I/FTmp(R) . V-	STA.-	-	S311	041SS-38	19			HSFPU	70	121100 P24	034	
084	SPIRE BSM/SOB I/FTmp(R) . I-	STA.-	-	S311	041SS-38	19			HSFPU	70	121100 P24	015	
096	SPIRE BSM/SOB I/FTmp(R) . SHD05	STA.-	-	S311	041SS-38	19			HSFPU	70	121100 P24	032	
079	SPIRE PTC Htr(R) . I+A	STB.-	-	S312	041BS-30	21		Cable S312 Shd	HSFPU	70	121100 P24	017	
078	SPIRE PTC Htr(R) . I+B	STB.-	-	S312	041BS-30	21			HSFPU	70	121100 P24	018	
068	SPIRE PTC Htr(R) . I-A	STB.-	-	S312	041BS-30	21			HSFPU	70	121100 P24	036	
067	SPIRE PTC Htr(R) . I-B	STB.-	-	S312	041BS-30	21			HSFPU	70	121100 P24	037	
090	SPIRE PTC Htr(R) . SHD07	STB.-	-	S312	041BS-30	21			HSFPU	70	121100 P24	035	
094	SPIRE FPU FT Faraday . SFF	SFF.-	-	S302	010B0-30			Cable P24 Faraday Shd con to Busbar tbc	HSFPU	70	121100 P24	CH	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					
004	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-5 (of 5)

Connector: 211121 J33

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)  
 Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
 Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
015	Faraday Pins						Connected to Busbar ECR0039tbc					
025	Faraday Pins						Connected to Busbar ECR0039tbc					
036	Faraday Pins						Connected to Busbar ECR0039tbc					
047	Faraday Pins						Connected to Busbar ECR0039tbc					
059	Faraday Pins						Connected to Busbar ECR0039tbc					
070	Faraday Pins						Connected to Busbar ECR0039tbc					
082	Faraday Pins						Connected to Busbar ECR0039tbc					
094	Faraday Pins						Connected to Busbar ECR0039tbc					
127	Faraday Pins						Connected to Busbar ECR0039tbc					
-	Connector Housing						CH isolated from Faraday Shd					
-							No Overall Shd at junction side					







# Pin Allocation List (Harness)

Connector: 211121 J29

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
051	SPIRE ChopSensor1&2(R) . 1	SBA.- -	S313	021SS-38	1			HSFPU	70	121100 P26	001	
040	SPIRE ChopSensor1&2(R) . 2	SBA.- -	S313	021SS-38	1			HSFPU	70	121100 P26	020	
039	SPIRE ChopSensor1&2(R) . SHD01	SBA.- -	S313	021SS-38	1		Cable S313 to 316 Shd con together (Pin 39, 26,27,38)	HSFPU	70	121100 P26	022	
028	SPIRE ChopSensor3-5(R) . 3	SBB.- -	S314	031BS-38	2			HSFPU	70	121100 P26	002	
017	SPIRE ChopSensor3-5(R) . 4	SBB.- -	S314	031BS-38	2			HSFPU	70	121100 P26	021	
016	SPIRE ChopSensor3-5(R) . 5	SBB.- -	S314	031BS-38	2			HSFPU	70	121100 P26	003	
027	SPIRE ChopSensor3-5(R) . SHD03	SBB.- -	S314	031BS-38	2		Cable S313 to 316 Shd con together (Pin 39, 26,27,38)	HSFPU	70	121100 P26	022	
049	SPIRE JiggleSensor1&2(R) . 1	SBA.- -	S315	021SS-38	3			HSFPU	70	121100 P26	004	
050	SPIRE JiggleSensor1&2(R) . 2	SBA.- -	S315	021SS-38	3			HSFPU	70	121100 P26	023	
038	SPIRE JiggleSensor1&2(R) . SHD02	SBA.- -	S315	021SS-38	3		Cable S313 to 316 Shd con together (Pin 39, 26,27,38)	HSFPU	70	121100 P26	022	
015	SPIRE JiggleSensor3-5(R) . 3	SBB.- -	S316	031BS-38	4			HSFPU	70	121100 P26	005	
025	SPIRE JiggleSensor3-5(R) . 4	SBB.- -	S316	031BS-38	4			HSFPU	70	121100 P26	024	
037	SPIRE JiggleSensor3-5(R) . 5	SBB.- -	S316	031BS-38	4			HSFPU	70	121100 P26	006	
026	SPIRE JiggleSensor3-5(R) . SHD04	SBB.- -	S316	031BS-38	4		Cable S313 to 316 Shd con together (Pin 39, 26,27,38)	HSFPU	70	121100 P26	022	
086	SPIRE BSMTemp(R) . I+	SBC.- -	S317	041SS-38	5			HSFPU	70	121100 P26	007	
097	SPIRE BSMTemp(R) . V+	SBC.- -	S317	041SS-38	5			HSFPU	70	121100 P26	026	
098	SPIRE BSMTemp(R) . V-	SBC.- -	S317	041SS-38	5			HSFPU	70	121100 P26	008	
087	SPIRE BSMTemp(R) . I-	SBC.- -	S317	041SS-38	5			HSFPU	70	121100 P26	027	
075	SPIRE BSMTemp(R) . SHD05	SBC.- -	S317	041SS-38	5		Cable S317 Shd	HSFPU	70	121100 P26	025	
048	SPIRE P-Cal Htr (R) . I+A	SBD.- -	S318	041BS-30	6			HSFPU	70	121100 P26	028	
071	SPIRE P-Cal Htr (R) . I+B	SBD.- -	S318	041BS-30	6			HSFPU	70	121100 P26	010	
060	SPIRE P-Cal Htr (R) . I-A	SBD.- -	S318	041BS-30	6			HSFPU	70	121100 P26	029	
059	SPIRE P-Cal Htr (R) . I-B	SBD.- -	S318	041BS-30	6			HSFPU	70	121100 P26	011	
036	SPIRE P-Cal Htr (R) . SHD06	SBD.- -	S318	041BS-30	6		Cable S318 Shd	HSFPU	70	121100 P26	009	
108	SPIRE BSMChLchConf(R) . 1	SBE.- -	S319	021SS-38	7			HSFPU	70	121100 P26	030	
116	SPIRE BSMChLchConf(R) . 2	SBE.- -	S319	021SS-38	7			HSFPU	70	121100 P26	012	
107	SPIRE BSMChLchConf(R) . SHD07	SBE.- -	S319	021SS-38	7		Cable S319 Shd	HSFPU	70	121100 P26	031	
105	SPIRE BSMLatchDrive(R) . SUP	SBF.- -	S320	021BS-30	8			HSFPU	70	121100 P26	013	

# Pin Allocation List (Harness)

Connector: 211121 J29

Item: CVVUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
115	SPIRE BSMLatchDrive(R) . RTN	SBF.-	-	S320	021BS-30	8		Cable S320 Shd	HSFPU	70	121100 P26	032	
106	SPIRE BSMLatchDrive(R) . SHD08	SBF.-	-	S320	021BS-30	8			HSFPU	70	121100 P26	033	
072	SPIRE ChopMotDrive(R) . 1	SBG.-	-	S321	041BS-30	9		Cable S321, 322 Shd con together (Pin 73,84)	HSFPU	70	121100 P26	015	
061	SPIRE ChopMotDrive(R) . 2	SBG.-	-	S321	041BS-30	9			HSFPU	70	121100 P26	034	
062	SPIRE ChopMotDrive(R) . 3	SBG.-	-	S321	041BS-30	9			HSFPU	70	121100 P26	016	
074	SPIRE ChopMotDrive(R) . 4	SBG.-	-	S321	041BS-30	9			HSFPU	70	121100 P26	035	
073	SPIRE ChopMotDrive(R) . SHD09	SBG.-	-	S321	041BS-30	9			HSFPU	70	121100 P26	017	
083	SPIRE JiggleMotDrive(R) . 1	SBG.-	-	S322	041BS-30	10		Cable S321, 322 Shd con together (Pin 73,84)	HSFPU	70	121100 P26	036	
095	SPIRE JiggleMotDrive(R) . 2	SBG.-	-	S322	041BS-30	10			HSFPU	70	121100 P26	018	
096	SPIRE JiggleMotDrive(R) . 3	SBG.-	-	S322	041BS-30	10			HSFPU	70	121100 P26	037	
085	SPIRE JiggleMotDrive(R) . 4	SBG.-	-	S322	041BS-30	10			HSFPU	70	121100 P26	019	
084	SPIRE JiggleMotDrive(R) . SHD10	SBG.-	-	S322	041BS-30	10			HSFPU	70	121100 P26	017	
082	SPIRE FPU BSM PS Faraday . SFF	SFF.-	-	S305	010B0-30			Cable P26 Faraday Shd con to Busbar ECR0039tbc	HSFPU	70	121100 P26	CH	3. 3. 3.
117	SPIRE SMECLLch#1Conf(R) . 1+	SME.-	-	S323	021BS-30	11		Cable S323, 324 Shd con together (A) (Pin 109,110)	HSFPU	70	121100 P28	001	
118	SPIRE SMECLLch#1Conf(R) . 1-	SME.-	-	S323	021BS-30	11			HSFPU	70	121100 P28	020	
109	SPIRE SMECLLch#1Conf(R) . SHD06	SME.-	-	S323	021BS-30	11			HSFPU	70	121100 P28	003	
111	SPIRE SMECLLch#2Conf(R) . 2+	SME.-	-	S324	021BS-30	12		Cable S323, 324 Shd con together (A) (Pin 109,110)	HSFPU	70	121100 P28	002	
119	SPIRE SMECLLch#2Conf(R) . 2-	SME.-	-	S324	021BS-30	12			HSFPU	70	121100 P28	021	
110	SPIRE SMECLLch#2Conf(R) . SHD07	SME.-	-	S324	021BS-30	12			HSFPU	70	121100 P28	003	
067	SPIRE SMECLL#1Pwr1(A/R) . S1	SMF.-	-	S325	021BS-30	13		Cable S325 to 328 Shd con together (B) (Pin 78,79,80,81)	HSFPU	70	121100 P28	022	
066	SPIRE SMECLL#1Pwr1(A/R) . R1	SMF.-	-	S325	021BS-30	13			HSFPU	70	121100 P28	023	
078	SPIRE SMECLL#1Pwr1(A/R) . SHD08	SMF.-	-	S325	021BS-30	13			HSFPU	70	121100 P28	004	
069	SPIRE SMECLL#1Pwr2(B/R) . S2	SMF.-	-	S326	021BS-30	14		Cable S325 to 328 Shd con together (B) (Pin 78,79,80,81)	HSFPU	70	121100 P28	005	
068	SPIRE SMECLL#1Pwr2(B/R) . R2	SMF.-	-	S326	021BS-30	14			HSFPU	70	121100 P28	006	
080	SPIRE SMECLL#1Pwr2(B/R) . SHD09	SMF.-	-	S326	021BS-30	14			HSFPU	70	121100 P28	024	

# Pin Allocation List (Harness)

**Connector:** 211121 J29  
**Item:** CVVUCR

**EMC-Category:** 2C/Sig H in Cryostat

**Function:** UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
**Location:** 33 / CWV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-011P24-35P (Junct.)  
**Backshell:** 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
090	SPIRE SMECLL#2Pwr1(A). S1	SMF	- -	S327	021BS-30	15		Cable S325 to 328 Shd con together (B) (Pin 78,79,80,81)	HSFPU	70	121100 P28	025	
091	SPIRE SMECLL#2Pwr1(A). R1	SMF	- -	S327	021BS-30	15			HSFPU	70	121100 P28	026	
079	SPIRE SMECLL#2Pwr1(A). SHD10	SMF	- -	S327	021BS-30	15			HSFPU	70	121100 P28	007	
092	SPIRE SMECLL#2Pwr2(B). S2	SMF	- -	S328	021BS-30	16		Cable S325 to 328 Shd con together (B) (Pin 78,79,80,81)	HSFPU	70	121100 P28	008	
093	SPIRE SMECLL#2Pwr2(B). R2	SMF	- -	S328	021BS-30	16			HSFPU	70	121100 P28	009	
081	SPIRE SMECLL#2Pwr2(B). SHD11	SMF	- -	S328	021BS-30	16			HSFPU	70	121100 P28	027	
088	SPIRE SMECTemp(R). I+	SMC	- -	S329	041SS-38	17		Cable S329, 330 Shd con together (C) (Pin 76,77)	HSFPU	70	121100 P28	028	
099	SPIRE SMECTemp(R). V+	SMC	- -	S329	041SS-38	17			HSFPU	70	121100 P28	010	
100	SPIRE SMECTemp(R). V-	SMC	- -	S329	041SS-38	17			HSFPU	70	121100 P28	029	
089	SPIRE SMECTemp(R). I-	SMC	- -	S329	041SS-38	17			HSFPU	70	121100 P28	011	
077	SPIRE SMECTemp(R). SHD04	SMC	- -	S329	041SS-38	17			HSFPU	70	121100 P28	030	
054	SPIRE SMEC/SOB I/FTmp(R) (#13). I+	SMC	- -	S330	041SS-38	18		Cable S329, 330 Shd con together (C) (Pin 76,77)	HSFPU	70	121100 P28	031	
065	SPIRE SMEC/SOB I/FTmp(R) (#13). V+	SMC	- -	S330	041SS-38	18			HSFPU	70	121100 P28	013	
064	SPIRE SMEC/SOB I/FTmp(R) (#13). V-	SMC	- -	S330	041SS-38	18			HSFPU	70	121100 P28	032	
053	SPIRE SMEC/SOB I/FTmp(R) (#13). I-	SMC	- -	S330	041SS-38	18			HSFPU	70	121100 P28	014	
076	SPIRE SMEC/SOB I/FTmp(R) (#13). SHD05	SMC	- -	S330	041SS-38	18			HSFPU	70	121100 P28	012	
101	SPIRE SMECLVDTPriCIPw(R). P	SMA	- -	S331	021BS-30	19		Cable S331 to 333 Shd con together (D) (Pin 112,128,121)	HSFPU	70	121100 P28	033	
102	SPIRE SMECLVDTPriCIPw(R). N	SMA	- -	S331	021BS-30	19			HSFPU	70	121100 P28	034	
112	SPIRE SMECLVDTPriCIPw(R). SHD01	SMA	- -	S331	021BS-30	19			HSFPU	70	121100 P28	015	
127	SPIRE SMECLVDTSCH#1Sg(R). P	SMB	- -	S332	021BS-30	20		Cable S331 to 333 Shd con together (D) (Pin 112,128,121)	HSFPU	70	121100 P28	035	
120	SPIRE SMECLVDTSCH#1Sg(R). N	SMB	- -	S332	021BS-30	20			HSFPU	70	121100 P28	036	
128	SPIRE SMECLVDTSCH#1Sg(R). SHD02	SMB	- -	S332	021BS-30	20			HSFPU	70	121100 P28	017	
114	SPIRE SMECLVDTSCH#2Sg(R). P	SMB	- -	S333	021BS-30	21		Cable S331 to 333 Shd con together (D) (Pin 112,128,121)	HSFPU	70	121100 P28	018	
113	SPIRE SMECLVDTSCH#2Sg(R). N	SMB	- -	S333	021BS-30	21			HSFPU	70	121100 P28	019	

# Pin Allocation List (Harness)

Connector: 211121 J29

Item: CVUUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFT1r 276.8° (SPIRE XS-13 FPU 26,28,30)

Location: 33 / CVV I/F CB Top PFM (CWUUCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
121	SPIRE SMECLVDTSCI#25g(R) . SHD03	SMB	-	-	S333	021BS-30	21				Cable S331 to 333 Shd con together (D) (Pin 112,128,121)	HSFPU	70	121100 P28	037	
104	SPIRE FPU SMEC LR Faraday . SFF	SFF	-	-	S351	010B0-30					Cable P28 Faraday Shd con to Busbar ECR0039tbc	HSFPU	70	121100 P28	CH	3. 3. 3.
012	SPIRE SMEC Drv Coil (R) . I+	SMD	-	-	S334	021BS-30	22					HSFPU	70	121100 P30	001	
005	SPIRE SMEC Drv Coil (R) . I-	SMD	-	-	S334	021BS-30	22					HSFPU	70	121100 P30	002	
013	SPIRE SMEC Drv Coil (R) . SHD01	SMD	-	-	S334	021BS-30	22				Cable S334,335 con together (A)	HSFPU	70	121100 P30	020	
022	SPIRE SMEC Drv Coil (Rob) (R) . I+	SMD	-	-	S335	021BS-30	23					HSFPU	70	121100 P30	021	
007	SPIRE SMEC Drv Coil (Rob) (R) . I-	SMD	-	-	S335	021BS-30	23					HSFPU	70	121100 P30	022	
013	SPIRE SMEC Drv Coil (Rob) (R) . SHD02	SMD	-	-	S335	021BS-30	23				Cable S334,335 con together (A)	HSFPU	70	121100 P30	003	
014	SPIRE SMEC Drv Sense (R) . Sen+	SMG	-	-	S336	021BS-38	24					HSFPU	70	121100 P30	004	
024	SPIRE SMEC Drv Sense (R) . Sen-	SMG	-	-	S336	021BS-38	24					HSFPU	70	121100 P30	005	
023	SPIRE SMEC Drv Sense (R) . SHD03	SMG	-	-	S336	021BS-38	24				Cable S336 Shd	HSFPU	70	121100 P30	023	
009	SPIRE SMEC PosSeLEDpwr(R) . S	SMH	-	-	S337	021BS-38	25					HSFPU	70	121100 P30	007	
002	SPIRE SMEC PosSeLEDpwr(R) . R	SMH	-	-	S337	021BS-38	25					HSFPU	70	121100 P30	008	
003	SPIRE SMEC PosSeLEDpwr(R) . SHD04	SMH	-	-	S337	021BS-38	25				Cable S337 Shd	HSFPU	70	121100 P30	026	
011	SPIRE SMEC PosSensPwr(R) . S	SMH	-	-	S338	021BS-38	26					HSFPU	70	121100 P30	027	
004	SPIRE SMEC PosSensPwr(R) . R	SMH	-	-	S338	021BS-38	26					HSFPU	70	121100 P30	028	
010	SPIRE SMEC PosSensPwr(R) . SHD05	SMH	-	-	S338	021BS-38	26				Cable S338 Shd	HSFPU	70	121100 P30	009	
018	SPIRE SMEC PosPhDI#1(R) . I+	SMJ	-	-	S339	021SS-38	27					HSFPU	70	121100 P30	010	
019	SPIRE SMEC PosPhDI#1(R) . I-	SMJ	-	-	S339	021SS-38	27					HSFPU	70	121100 P30	011	
029	SPIRE SMEC PosPhDI#1(R) . SHD06	SMJ	-	-	S339	021SS-38	27				Cable S339, 341, 343 Shd con together (B) (Pin 29,30,31)	HSFPU	70	121100 P30	029	
056	SPIRE SMEC PosPhDI#1FB(R) . S	SMK	-	-	S340	021SS-38	30					HSFPU	70	121100 P30	030	
055	SPIRE SMEC PosPhDI#1FB(R) . R	SMK	-	-	S340	021SS-38	30					HSFPU	70	121100 P30	031	
044	SPIRE SMEC PosPhDI#1FB(R) . SHD07	SMK	-	-	S340	021SS-38	30				Cable S340, 342, 344 Shd con together (C) (Pin 44,45,46)	HSFPU	70	121100 P30	012	
042	SPIRE SMEC PosPhDI#2(R) . I+	SMJ	-	-	S341	021SS-38	28					HSFPU	70	121100 P30	013	
041	SPIRE SMEC PosPhDI#2(R) . I-	SMJ	-	-	S341	021SS-38	28					HSFPU	70	121100 P30	014	

# Pin Allocation List (Harness)

Connector: 211121 J29  
Item: CVVUCR

Function: UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-011P24-35P (Junct.)  
Backshell: 128/175\_176\_01\_0A

EMC-Category: 2C/Sig H in Cryostat

Pin	Signal Designation	Interface-Circuit	Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
030	SPIRE SMEC PosPhD#2(R) . SHD07	SMJ.- -	- -	S341	021SS-38	28		Cable S339, 341, 343 Shd con together (B) (Pin 29,30,31)	HSFPU	70	121100 P30	032	
034	SPIRE SMEC PosPhD#2FB(R) . S	SMK.- -	- -	S342	021SS-38	31			HSFPU	70	121100 P30	033	
033	SPIRE SMEC PosPhD#2FB(R) . R	SMK.- -	- -	S342	021SS-38	31			HSFPU	70	121100 P30	034	
045	SPIRE SMEC PosPhD#2FB(R) . SHD10	SMK.- -	- -	S342	021SS-38	31		Cable S340, 342, 344 Shd con together (C) (Pin 44,45,46)	HSFPU	70	121100 P30	015	
020	SPIRE SMEC PosPhD#3(R) . I+	SMJ.- -	- -	S343	021SS-38	29			HSFPU	70	121100 P30	016	
021	SPIRE SMEC PosPhD#3(R) . I-	SMJ.- -	- -	S343	021SS-38	29			HSFPU	70	121100 P30	017	
031	SPIRE SMEC PosPhD#3(R) . SHD08	SMJ.- -	- -	S343	021SS-38	29		Cable S339, 341, 343 Shd con together (B) (Pin 29,30,31)	HSFPU	70	121100 P30	035	
058	SPIRE SMEC PosPhD#3FB(R) . S	SMK.- -	- -	S344	021SS-38	32			HSFPU	70	121100 P30	036	
057	SPIRE SMEC PosPhD#3FB(R) . R	SMK.- -	- -	S344	021SS-38	32			HSFPU	70	121100 P30	037	
046	SPIRE SMEC PosPhD#3FB(R) . SHD11	SMK.- -	- -	S344	021SS-38	32		Cable S340, 342, 344 Shd con together (C) (Pin 44,45,46)	HSFPU	70	121100 P30	018	
006	SPIRE FPU SMEC CR Faraday . SFF	SFF.- -	- -	S352	010B0-30			Cable P30 Faraday Shd con to Busbar ECR0039tbc	HSFPU	70	121100 P30	CH	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
006	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
035	Faraday Pins							Connected to Busbar ECR0039tbc					
047	Faraday Pins							Connected to Busbar ECR0039tbc					
070	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
104	Faraday Pins							Connected to Busbar ECR0039tbc					

# Pin Allocation List (Harness)

Connector: 211121 J29

Item: CVWUCR

EMC-Category: 2C/Sig H in Cryostat

Function: UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)

Location: 33 / CVV I/F CB Top PFM (CWUOCR)

Conn.-Type: 197-011P24-35P (Junct.)

Backshell: 128/175\_176\_01\_0A

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
107	Faraday Pins							Connected to Busbar ECR0039tbc					
109	Faraday Pins							Connected to Busbar ECR0039tbc					
110	Faraday Pins							Connected to Busbar ECR0039tbc					
122	Faraday Pins							Connected to Busbar ECR0039tbc					
123	Faraday Pins							Connected to Busbar ECR0039tbc					
124	Faraday Pins							Connected to Busbar ECR0039tbc					
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					
-	NC												
-	NC												
-	NC												
-	NC												
-	NC												
-	NC												
-	NC												
-	NC												
CH	Connector Housing							CH isolated from Faraday Shd No Bundle Overall Shd at Junction Side					





# Pin Allocation List (Harness)

Connector: 211121 P32

Item: CVUUCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
115	SPIRE SLW GND Wire A1	SSX	-	S401	010B0-30			Con to Cables from P05 GND/Shds	HSSVMCB2	27	312200 J06	115	
026	SPIRE SLW Ch01-04 . 1+	SSB	I -	S001	021SS-38	1		SLW-R1	HSSVMCB2	27	312200 J06	026	
037	SPIRE SLW Ch01-04 . 1-	SSB	I -	S001	021SS-38	1		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	037	
115	SPIRE SLW Ch01-04 . 1gnd	SSB	I -	S001	021SS-38	1			HSSVMCB2	27	312200 J06	115	
038	SPIRE SLW Ch01-04 . 2+	SSB	I -	S001	021SS-38	1		SLW-T1	HSSVMCB2	27	312200 J06	038	
049	SPIRE SLW Ch01-04 . 2-	SSB	I -	S001	021SS-38	1		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	049	
115	SPIRE SLW Ch01-04 . 2gnd	SSB	I -	S001	021SS-38	1			HSSVMCB2	27	312200 J06	115	
048	SPIRE SLW Ch01-04 . 3+	SSB	I -	S001	021SS-38	1		SLW-C1	HSSVMCB2	27	312200 J06	048	
060	SPIRE SLW Ch01-04 . 3-	SSB	I -	S001	021SS-38	1		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	060	
115	SPIRE SLW Ch01-04 . 3gnd	SSB	I -	S001	021SS-38	1			HSSVMCB2	27	312200 J06	115	
059	SPIRE SLW Ch01-04 . 4+	SSB	I -	S001	021SS-38	1		SLW-DK1	HSSVMCB2	27	312200 J06	059	
071	SPIRE SLW Ch01-04 . 4-	SSB	I -	S001	021SS-38	1		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	071	
115	SPIRE SLW Ch01-04 . 4gnd	SSB	I -	S001	021SS-38	1			HSSVMCB2	27	312200 J06	115	
050	SPIRE SLW Ch05-08 . 5+	SSB	I -	S002	021SS-38	2		SLW-B1	HSSVMCB2	27	312200 J06	050	
061	SPIRE SLW Ch05-08 . 5-	SSB	I -	S002	021SS-38	2		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	061	
115	SPIRE SLW Ch05-08 . 5gnd	SSB	I -	S002	021SS-38	2			HSSVMCB2	27	312200 J06	115	
062	SPIRE SLW Ch05-08 . 6+	SSB	I -	S002	021SS-38	2		SLW-D1	HSSVMCB2	27	312200 J06	062	
051	SPIRE SLW Ch05-08 . 6-	SSB	I -	S002	021SS-38	2		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	051	
115	SPIRE SLW Ch05-08 . 6gnd	SSB	I -	S002	021SS-38	2			HSSVMCB2	27	312200 J06	115	
063	SPIRE SLW Ch05-08 . 7+	SSB	I -	S002	021SS-38	2		SLW-E1	HSSVMCB2	27	312200 J06	063	
075	SPIRE SLW Ch05-08 . 7-	SSB	I -	S002	021SS-38	2		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	075	
115	SPIRE SLW Ch05-08 . 7gnd	SSB	I -	S002	021SS-38	2			HSSVMCB2	27	312200 J06	115	
074	SPIRE SLW Ch05-08 . 8+	SSB	I -	S002	021SS-38	2		SLW-A1	HSSVMCB2	27	312200 J06	074	
073	SPIRE SLW Ch05-08 . 8-	SSB	I -	S002	021SS-38	2		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	073	
115	SPIRE SLW Ch05-08 . 8gnd	SSB	I -	S002	021SS-38	2			HSSVMCB2	27	312200 J06	115	
115	SPIRE SLW Ch05-08 . SHD02	SSB	I -	S002	021SS-38	2		Cable S002 Shd daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	115	
083	SPIRE SLW Ch09-12 . 9+	SSB	I -	S003	021SS-38	3		SLW-C2	HSSVMCB2	27	312200 J06	083	

# Pin Allocation List (Harness)

**Connector:** 211121 P32

**Item:** CVVUCR

**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
072	SPIRE SLW Ch09-12 . 9-	SSB.I	-	S003	021SS-38	3		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	072	
115	SPIRE SLW Ch09-12 . 9gnd	SSB.I	-	S003	021SS-38	3			HSSVMCB2	27	312200 J06	115	
095	SPIRE SLW Ch09-12 . 10+	SSB.I	-	S003	021SS-38	3		SLW-D2	HSSVMCB2	27	312200 J06	095	
084	SPIRE SLW Ch09-12 . 10-	SSB.I	-	S003	021SS-38	3		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	084	
115	SPIRE SLW Ch09-12 . 10gnd	SSB.I	-	S003	021SS-38	3			HSSVMCB2	27	312200 J06	115	
096	SPIRE SLW Ch09-12 . 11+	SSB.I	-	S003	021SS-38	3		SLW-B2	HSSVMCB2	27	312200 J06	096	
085	SPIRE SLW Ch09-12 . 11-	SSB.I	-	S003	021SS-38	3		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	085	
115	SPIRE SLW Ch09-12 . 11gnd	SSB.I	-	S003	021SS-38	3			HSSVMCB2	27	312200 J06	115	
106	SPIRE SLW Ch09-12 . 12+	SSB.I	-	S003	021SS-38	3		SLW-E2	HSSVMCB2	27	312200 J06	106	
107	SPIRE SLW Ch09-12 . 12-	SSB.I	-	S003	021SS-38	3		Daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	107	
115	SPIRE SLW Ch09-12 . 12gnd	SSB.I	-	S003	021SS-38	3			HSSVMCB2	27	312200 J06	115	
115	SPIRE SLW Ch09-12 . SHD03	SSB.I	-	S003	021SS-38	3		Cable S003 Shd daisy ch to Pin 115 (A1)	HSSVMCB2	27	312200 J06	115	
-	Faraday Link							Cable from P05 Faraday Shd con to Busbar					
122	SPIRE SLW GND Wire A2	SSX.-	-	S402	010B0-30			GND Wire A2 con to all Cable 004, 005 and 006 gnd shld	HSSVMCB2	27	312200 J06	122	
086	SPIRE SLW Ch13-16 . 13+	SSB.I	-	S004	021SS-38	4		SLW-A2	HSSVMCB2	27	312200 J06	086	
087	SPIRE SLW Ch13-16 . 13-	SSB.I	-	S004	021SS-38	4		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	087	
122	SPIRE SLW Ch13-16 . 13gnd	SSB.I	-	S004	021SS-38	4			HSSVMCB2	27	312200 J06	122	
097	SPIRE SLW Ch13-16 . 14+	SSB.I	-	S004	021SS-38	4		SLW-C3	HSSVMCB2	27	312200 J06	097	
098	SPIRE SLW Ch13-16 . 14-	SSB.I	-	S004	021SS-38	4		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	098	
122	SPIRE SLW Ch13-16 . 14gnd	SSB.I	-	S004	021SS-38	4			HSSVMCB2	27	312200 J06	122	
108	SPIRE SLW Ch13-16 . 15+	SSB.I	-	S004	021SS-38	4		SLW-D3	HSSVMCB2	27	312200 J06	108	
109	SPIRE SLW Ch13-16 . 15-	SSB.I	-	S004	021SS-38	4		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	109	
122	SPIRE SLW Ch13-16 . 15gnd	SSB.I	-	S004	021SS-38	4			HSSVMCB2	27	312200 J06	122	
116	SPIRE SLW Ch13-16 . 16+	SSB.I	-	S004	021SS-38	4		SLW-B3	HSSVMCB2	27	312200 J06	116	
117	SPIRE SLW Ch13-16 . 16-	SSB.I	-	S004	021SS-38	4		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	117	
122	SPIRE SLW Ch13-16 . 16gnd	SSB.I	-	S004	021SS-38	4			HSSVMCB2	27	312200 J06	122	

# Pin Allocation List (Harness)

Connector: 211121 P32

Item: CVUUCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFTthr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)  
Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
055	SPIRE SLW Ch17-20 . 17+	SSB.I	-	S005	021SS-38	5		SLW-E3	HSSVMCB2	27	312200 J06	055	
066	SPIRE SLW Ch17-20 . 17-	SSB.I	-	S005	021SS-38	5		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	066	
122	SPIRE SLW Ch17-20 . 17gnd	SSB.I	-	S005	021SS-38	5			HSSVMCB2	27	312200 J06	122	
067	SPIRE SLW Ch17-20 . 18+	SSB.I	-	S005	021SS-38	5		SLW-C4	HSSVMCB2	27	312200 J06	067	
078	SPIRE SLW Ch17-20 . 18-	SSB.I	-	S005	021SS-38	5		12AX gnd daisy ch to Pin 122 at CVV side (A2)	HSSVMCB2	27	312200 J06	078	
122	SPIRE SLW Ch17-20 . 18gnd	SSB.I	-	S005	021SS-38	5			HSSVMCB2	27	312200 J06	122	
076	SPIRE SLW Ch17-20 . 19+	SSB.I	-	S005	021SS-38	5		SLW-DK2	HSSVMCB2	27	312200 J06	076	
077	SPIRE SLW Ch17-20 . 19-	SSB.I	-	S005	021SS-38	5		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	077	
122	SPIRE SLW Ch17-20 . 19gnd	SSB.I	-	S005	021SS-38	5			HSSVMCB2	27	312200 J06	122	
088	SPIRE SLW Ch17-20 . 20+	SSB.I	-	S005	021SS-38	5		SLW-D4	HSSVMCB2	27	312200 J06	088	
089	SPIRE SLW Ch17-20 . 20-	SSB.I	-	S005	021SS-38	5		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	089	
122	SPIRE SLW Ch17-20 . 20gnd	SSB.I	-	S005	021SS-38	5			HSSVMCB2	27	312200 J06	122	
099	SPIRE SLW Ch21-24 . 21+	SSB.I	-	S006	021SS-38	6		SLW-C5	HSSVMCB2	27	312200 J06	099	
100	SPIRE SLW Ch21-24 . 21-	SSB.I	-	S006	021SS-38	6		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	100	
122	SPIRE SLW Ch21-24 . 21gnd	SSB.I	-	S006	021SS-38	6			HSSVMCB2	27	312200 J06	122	
110	SPIRE SLW Ch21-24 . 22+	SSB.I	-	S006	021SS-38	6		SLW-B4	HSSVMCB2	27	312200 J06	110	
111	SPIRE SLW Ch21-24 . 22-	SSB.I	-	S006	021SS-38	6		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	111	
122	SPIRE SLW Ch21-24 . 22gnd	SSB.I	-	S006	021SS-38	6			HSSVMCB2	27	312200 J06	122	
118	SPIRE SLW Ch21-24 . 23+	SSB.I	-	S006	021SS-38	6		SLW-A3	HSSVMCB2	27	312200 J06	118	
119	SPIRE SLW Ch21-24 . 23-	SSB.I	-	S006	021SS-38	6		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	119	
122	SPIRE SLW Ch21-24 . 23gnd	SSB.I	-	S006	021SS-38	6			HSSVMCB2	27	312200 J06	122	
112	SPIRE SLW Ch21-24 . 24+	SSB.I	-	S006	021SS-38	6		SLW-T2	HSSVMCB2	27	312200 J06	112	
120	SPIRE SLW Ch21-24 . 24-	SSB.I	-	S006	021SS-38	6		Daisy ch to Pin 122 (A2)	HSSVMCB2	27	312200 J06	120	
122	SPIRE SLW Ch21-24 . 24gnd	SSB.I	-	S006	021SS-38	6			HSSVMCB2	27	312200 J06	122	
-	Faraday Link							Cable from P06 Faraday Shd con to Busbar tbc					

# Pin Allocation List (Harness)

Connector: 211121 P32

Item: CVUUCR

EMC-Category: 2/ISig H fr CVVFT to SVMCB

Function: UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
007	SPIRE PTC TC Bias A . +ve	S3A.I	-	S009	021BS-38	9			HSSVMCB2	27	312200 J06	007	
014	SPIRE PTC TC Bias A . -ve	S3A.I	-	S009	021BS-38	9			HSSVMCB2	27	312200 J06	014	
046	SPIRE PTC TC Bias A . SHD01	S3A.I	-	S009	021BS-38	9		Cable 009 Shd daisy ch to Pin 46 at CVV side (A3)	HSSVMCB2	27	312200 J06	046	
046	SPIRE PTC GND WIRE A3 . GND A3	SSX.-	-	S403	010B0-30			Gnd Wire A3 con to Cable 09 + 10 Shd	HSSVMCB2	27	312200 J06	046	
024	SPIRE PTC JFETV Bias A . +ve	S3C.I	-	S010	021BS-38	10			HSSVMCB2	27	312200 J06	024	
035	SPIRE PTC JFETV Bias A . -ve	S3C.I	-	S010	021BS-38	10			HSSVMCB2	27	312200 J06	035	
046	SPIRE PTC JFETV Bias A . SHD02	S3C.I	-	S010	021BS-38	10		Cable 010 Shd daisy ch to Pin 046 at CVV side (A3)	HSSVMCB2	27	312200 J06	046	
121	SPIRE SLW Bias A1 . +ve	SSD.I	-	S025	021BS-38	25			HSSVMCB2	27	312200 J06	121	
114	SPIRE SLW Bias A1 . -ve	SSD.I	-	S025	021BS-38	25			HSSVMCB2	27	312200 J06	114	
104	SPIRE SLW Bias A1 . SHD03	SSD.I	-	S025	021BS-38	25		Cable S025 Shd daisy ch to Pin 104 at CVV side (B3)	HSSVMCB2	27	312200 J06	104	
102	SPIRE SLW Bias A2 . +ve	SSD.I	-	S026	021BS-38	26			HSSVMCB2	27	312200 J06	102	
101	SPIRE SLW Bias A2 . -ve	SSD.I	-	S026	021BS-38	26			HSSVMCB2	27	312200 J06	101	
104	SPIRE SLW Bias A2 . SHD04	SSD.I	-	S026	021BS-38	26		Cable S026 Shd daisy ch to Pin 104 at CVV side (B3)	HSSVMCB2	27	312200 J06	104	
104	SPIRE SLW GND WIRE B3	SSX.-	-	S405	010B0-30			SLW GND Wire B3 con to cable 25,26,11,12 Shd	HSSVMCB2	27	312200 J06	104	
092	SPIRE SLW JFETV A1 . +ve	SSF.I	-	S011	021BS-38	11			HSSVMCB2	27	312200 J06	092	
091	SPIRE SLW JFETV A1 . -ve	SSF.I	-	S011	021BS-38	11			HSSVMCB2	27	312200 J06	091	
104	SPIRE SLW JFETV A1 . SHD05	SSF.I	-	S011	021BS-38	11		Cable S011 Shd daisy ch to Pin 104 at CVV side (B3)	HSSVMCB2	27	312200 J06	104	
103	SPIRE SLW JFETV A2 . +ve	SSF.I	-	S012	021BS-38	12			HSSVMCB2	27	312200 J06	103	
113	SPIRE SLW JFETV A2 . -ve	SSF.I	-	S012	021BS-38	12			HSSVMCB2	27	312200 J06	113	
104	SPIRE SLW JFETV A2 . SHD06	SSF.I	-	S012	021BS-38	12		Cable S012 Shd daisy ch to Pin 104 at CVV side (B3)	HSSVMCB2	27	312200 J06	104	
090	SPIRE SSW Bias A1 . +ve	SSC.I	-	S029	021BS-38	29			HSSVMCB2	27	312200 J06	090	

# Pin Allocation List (Harness)

Connector: 211121 P32

Item: CVWUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
079	SPIRE SSW Bias A1 . -ve	SSC.I -		S029	021BS-38	29	Cable S029 Shd daisy ch to Pin 093 at CVV side (C3)	HSSVMCB2	27	312200 J06	079	
093	SPIRE SSW Bias A1 . SHD07	SSC.I -		S029	021BS-38	29		HSSVMCB2	27	312200 J06	093	
068	SPIRE SSW JFETV A1 . +ve	SSE.I -		S016	021BS-38	16	Cable S016 Shd daisy ch to Pin 093 at CVV side (C3)	HSSVMCB2	27	312200 J06	068	
057	SPIRE SSW JFETV A1 . -ve	SSE.I -		S016	021BS-38	16		HSSVMCB2	27	312200 J06	057	
093	SPIRE SSW JFETV A1 . SHD08	SSE.I -		S016	021BS-38	16		HSSVMCB2	27	312200 J06	093	
093	SPIRE SSW GND Wire C3	SSX.- -		S406	010B0-30		GND Wire C3 con to Cable 29,16,3117 Shd	HSSVMCB2	27	312200 J06	093	
069	SPIRE SSW Bias A2 . +ve	SSC.I -		S031	021BS-38	31	Cable S031 Shd daisy ch to Pin 093 at CVV side (C3)	HSSVMCB2	27	312200 J06	069	
080	SPIRE SSW Bias A2 . -ve	SSC.I -		S031	021BS-38	31		HSSVMCB2	27	312200 J06	080	
093	SPIRE SSW Bias A2 . SHD09	SSC.I -		S031	021BS-38	31		HSSVMCB2	27	312200 J06	093	
070	SPIRE SSW JFETV A2 . +ve	SSE.I -		S017	021BS-38	17	Cable S017 Shd daisy ch to Pin 093 at CVV side (C3)	HSSVMCB2	27	312200 J06	070	
081	SPIRE SSW JFETV A2 . -ve	SSE.I -		S017	021BS-38	17		HSSVMCB2	27	312200 J06	081	
093	SPIRE SSW JFETV A2 . SHD10	SSE.I -		S017	021BS-38	17		HSSVMCB2	27	312200 J06	093	
022	SPIRE S_Heater GND D3	SSX.- -		S410	010B0-30		GND Wire D3 con to Cable 33,34,19Shd	HSSVMCB2	27	312200 J06	022	
023	SPIRE SLW JFET Htr A . +ve	SSH.- -		S033	021BS-38	33	Cable S033 Shd daisy ch to Cable 034 Shd = GND wire D3	HSSVMCB2	27	312200 J06	023	
034	SPIRE SLW JFET Htr A . -ve	SSH.- -		S033	021BS-38	33		HSSVMCB2	27	312200 J06	034	
022	SPIRE SLW JFET Htr A . SHD13	SSH.- -		S033	021BS-38	33		HSSVMCB2	27	312200 J06	022	
033	SPIRE SSW JFET Htr A . +ve	SSG.- -		S034	021BS-38	34	Cable S034 Shd daisy ch to Cable 033	HSSVMCB2	27	312200 J06	033	
045	SPIRE SSW JFET Htr A . -ve	SSG.- -		S034	021BS-38	34		HSSVMCB2	27	312200 J06	045	
022	SPIRE SSW JFET Htr A . SHD12	SSG.- -		S034	021BS-38	34		HSSVMCB2	27	312200 J06	022	
044	SPIRE PTC JFET Htr A . +ve	S3B.- -		S019	021BS-38	19	Cable S019 Shd daisy ch to Gnd Wire D3	HSSVMCB2	27	312200 J06	044	
056	SPIRE PTC JFET Htr A . -ve	S3B.- -		S019	021BS-38	19		HSSVMCB2	27	312200 J06	056	
022	SPIRE PTC JFET Htr A . SHD11	S3B.- -		S019	021BS-38	19		HSSVMCB2	27	312200 J06	022	

# Pin Allocation List (Harness)

Connector: 211121 P32

Item: CVUUCR

EMC-Category: 2i/Sig H fr CWVFT to SVMCB

Function: UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal			Shd	Cable Twist						
-	Faraday Link													
001	SPIRE PTC TC Bias B . +ve		S3A.I	-	S020	021BS-38	20		Cable from P09 Faraday Shd con to Busbar	HSSVMCB2	27	312200 J06	001	
008	SPIRE PTC TC Bias B . -ve		S3A.I	-	S020	021BS-38	20			HSSVMCB2	27	312200 J06	008	
004	SPIRE PTC TC Bias B . SHD01		S3A.I	-	S020	021BS-38	20		Cable S020 Shd daisy ch to Gnd Wire A4	HSSVMCB2	27	312200 J06	004	
004	SPIRE PTC GND Wire A4		SSX.-	-	S404	010B0-30			GND Wire A4 con Cable 21, 22 Shd	HSSVMCB2	27	312200 J06	004	
003	SPIRE PTC JFETV Bias B . +ve		S3C.I	-	S022	021BS-38	22			HSSVMCB2	27	312200 J06	003	
002	SPIRE PTC JFETV Bias B . -ve		S3C.I	-	S022	021BS-38	22			HSSVMCB2	27	312200 J06	002	
004	SPIRE PTC JFETV Bias B . SHD02		S3C.I	-	S022	021BS-38	22		Cable S022 Shd daisy ch to Gnd Wire A4	HSSVMCB2	27	312200 J06	004	
013	SPIRE SLW Bias B1 . +ve		SSD.I	-	S038	021BS-38	38			HSSVMCB2	27	312200 J06	013	
012	SPIRE SLW Bias B1 . -ve		SSD.I	-	S038	021BS-38	38			HSSVMCB2	27	312200 J06	012	
032	SPIRE SLW Bias B1 . SHD03		SSD.I	-	S038	021BS-38	38		Cable S038 Shd daisy ch to Gnd Wire B4	HSSVMCB2	27	312200 J06	032	
021	SPIRE SLW Bias B2 . +ve		SSD.I	-	S039	021BS-38	39			HSSVMCB2	27	312200 J06	021	
020	SPIRE SLW Bias B2 . -ve		SSD.I	-	S039	021BS-38	39			HSSVMCB2	27	312200 J06	020	
032	SPIRE SLW Bias B2 . SHD04		SSD.I	-	S039	021BS-38	39		Cable S039 Shd daisy ch to Gnd Wire B4	HSSVMCB2	27	312200 J06	032	
032	SPIRE SLW GND Wire B4		SSX.-	-	S407	010B0-30			Gnd Wire B4 con to Cable 23,28,38,39 Shd	HSSVMCB2	27	312200 J06	032	
031	SPIRE SLW JFETV B1 . +ve		SSF.I	-	S028	021BS-38	28			HSSVMCB2	27	312200 J06	031	
043	SPIRE SLW JFETV B1 . -ve		SSF.I	-	S028	021BS-38	28			HSSVMCB2	27	312200 J06	043	
032	SPIRE SLW JFETV B1 . SHD05		SSF.I	-	S028	021BS-38	28		Cable S028 Shd daisy ch to Gnd Wire B4	HSSVMCB2	27	312200 J06	032	
042	SPIRE SLW JFETV B2 . +ve		SSF.I	-	S023	021BS-38	23			HSSVMCB2	27	312200 J06	042	
054	SPIRE SLW JFETV B2 . -ve		SSF.I	-	S023	021BS-38	23			HSSVMCB2	27	312200 J06	054	

# Pin Allocation List (Harness)

**Connector:** 211121 P32  
**Item:** CWUUCR  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)  
**Location:** 33 / CWV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal			Shd	Cable Twist						
032	SPIRE SLW JFETV B2 . SHD06		SSF.I	-	S023	021BS-38	23		Cable S023 Shd daisy ch to Gnd Wire B4	HSSVMCB2	27	312200 J06	032	
010	SPIRE SSW Bias B1 . +ve		SSC.I	-	S042	021BS-38	42			HSSVMCB2	27	312200 J06	010	
011	SPIRE SSW Bias B1 . -ve		SSC.I	-	S042	021BS-38	42			HSSVMCB2	27	312200 J06	011	
040	SPIRE SSW Bias B1 . SHD07		SSC.I	-	S042	021BS-38	42		Cable S042 Shd daisy ch to Gnd Wire C4	HSSVMCB2	27	312200 J06	040	
019	SPIRE SSW JFETV B1 . +ve		SSE.I	-	S035	021BS-38	35			HSSVMCB2	27	312200 J06	019	
029	SPIRE SSW JFETV B1 . -ve		SSE.I	-	S035	021BS-38	35			HSSVMCB2	27	312200 J06	029	
040	SPIRE SSW JFETV B1 . SHD08		SSE.I	-	S035	021BS-38	35		Cable S035 Shd daisy ch to Gnd Wire C4	HSSVMCB2	27	312200 J06	040	
040	SPIRE SSW GND Wire C4		SSX.-	-	S408	010B0-30			GND Wire C4 con to Cable 35,36,42,44 Shd	HSSVMCB2	27	312200 J06	040	
041	SPIRE SSW Bias B2 . +ve		SSC.I	-	S044	021BS-38	44			HSSVMCB2	27	312200 J06	041	
030	SPIRE SSW Bias B2 . -ve		SSC.I	-	S044	021BS-38	44			HSSVMCB2	27	312200 J06	030	
040	SPIRE SSW Bias B2 . SHD09		SSC.I	-	S044	021BS-38	44		Cable S044 Shd daisy ch to Gnd Wire C4	HSSVMCB2	27	312200 J06	040	
053	SPIRE SSW JFETV B2 . +ve		SSE.I	-	S036	021BS-38	36			HSSVMCB2	27	312200 J06	053	
052	SPIRE SSW JFETV B2 . -ve		SSE.I	-	S036	021BS-38	36			HSSVMCB2	27	312200 J06	052	
040	SPIRE SSW JFETV B2 . SHD10		SSE.I	-	S036	021BS-38	36		Cable S036 Shd daisy ch to Gnd Wire C4	HSSVMCB2	27	312200 J06	040	
039	SPIRE S_Heater GND D4		SSX.-	-	S409	010B0-30			GND Wire D4 con to Cable 40, 46,47 Shd	HSSVMCB2	27	312200 J06	039	
018	SPIRE SLW JFET Htr B . +ve		SSH.-	-	S046	021BS-38	46			HSSVMCB2	27	312200 J06	018	
028	SPIRE SLW JFET Htr B . -ve		SSH.-	-	S046	021BS-38	46			HSSVMCB2	27	312200 J06	028	
039	SPIRE SLW JFET Htr B . SHD13		SSH.-	-	S046	021BS-38	46		Cable S046 Shd daisy ch to Gnd Wire D4	HSSVMCB2	27	312200 J06	039	
009	SPIRE SSW JFET Htr B . +ve		SSG.-	-	S047	021BS-38	47			HSSVMCB2	27	312200 J06	009	
017	SPIRE SSW JFET Htr B . -ve		SSG.-	-	S047	021BS-38	47			HSSVMCB2	27	312200 J06	017	
039	SPIRE SSW JFET Htr B . SHD12		SSG.-	-	S047	021BS-38	47		Cable S047 Shd daisy ch to Gnd Wire D4	HSSVMCB2	27	312200 J06	039	

# Pin Allocation List (Harness)

**Connector:** 211121 P32

**Item:** CVUUCR

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** UFTThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)  
**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
016	SPIRE PTC JFET Htr B. +ve	S3B.-	-	S040	021BS-38	40		Cable S040 Shd daisy ch to Gnd Wire D4	HSSVMCB2	27	312200 J06	016	
027	SPIRE PTC JFET Htr B. -ve	S3B.-	-	S040	021BS-38	40			HSSVMCB2	27	312200 J06	027	
039	SPIRE PTC JFET Htr B. SHD11	SHD	S3B.-	S040	021BS-38	40			HSSVMCB2	27	312200 J06	039	
-	Faraday Link							Cable from P10 Faraday Shd con to Busbar					
005	Faraday Pins							Connected to Busbar ECR 0039 tbc					
006	Faraday Pins							Connected to Busbar ECR 0039 tbc					
015	Faraday Pins							Connected to Busbar ECR 0039 tbc					
022	Faraday Pins							Connected to Busbar ECR 0039 tbc					
025	Faraday Pins							Connected to Busbar ECR 0039 tbc					
036	Faraday Pins							Connected to Busbar ECR 0039 tbc					
039	Faraday Pins							Connected to Busbar ECR 0039 tbc					
047	Faraday Pins							Connected to Ring Wire ECR 0039 tbc					
058	Faraday Pins							Connected to Ring Wire ECR 0039 tbc					
082	Faraday Pins							Connected to Busbar ECR 0039 tbc					
094	Faraday Pins							Connected to Busbar ECR 0039 tbc					
105	Faraday Pins							Connected to Busbar ECR 0039 tbc					
123	Faraday Pins							Connected to Busbar ECR 0039 tbc					
124	Faraday Pins							Connected to Busbar ECR 0039 tbc					
125	Faraday Pins							Connected to Busbar ECR 0039 tbc					



Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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Connector: 211121 P32

Item: CWUOCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)

Location: 33 / CVW I/F CB Top PFM (CWUOCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
126	Faraday Pins					Connected to Busbar ECR 0039 tbc					
127	Faraday Pins					Connected to Busbar ECR 0039 tbc					
128	Faraday Pins					Connected to Busbar ECR 0039 tbc					
-	Connector Housing					CH isolated from Faraday Shd					
-	Insulating jacket					Insulating jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd (inner)					Bundle Overall Shd con to Backshell					3.





# Pin Allocation List (Harness)

**Connector:** 211121 P31  
**Item:** CVWUCR

**Function:** UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
047	SPIRE B02 GND Wire A1	SSX	-	S421	010B0-30			Con to Cable from P01 GND/Shds	HSSVMCB2	27	312200 J05	047	
090	SPIRE SSW Ch01-04 . 1+	SSA	I	S051	021SS-38	1		SSW-R1	HSSVMCB2	27	312200 J05	090	
079	SPIRE SSW Ch01-04 . 1-	SSA	I	S051	021SS-38	1			HSSVMCB2	27	312200 J05	079	
047	SPIRE SSW Ch01-04 . 1gnd	SSA	I	S051	021SS-38	1		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
102	SPIRE SSW Ch01-04 . 2+	SSA	I	S051	021SS-38	1		SSW-A4	HSSVMCB2	27	312200 J05	102	
101	SPIRE SSW Ch01-04 . 2-	SSA	I	S051	021SS-38	1			HSSVMCB2	27	312200 J05	101	
047	SPIRE SSW Ch01-04 . 2gnd	SSA	I	S051	021SS-38	1		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
092	SPIRE SSW Ch01-04 . 3+	SSA	I	S051	021SS-38	1		SSW-A3	HSSVMCB2	27	312200 J05	092	
091	SPIRE SSW Ch01-04 . 3-	SSA	I	S051	021SS-38	1			HSSVMCB2	27	312200 J05	091	
047	SPIRE SSW Ch01-04 . 3gnd	SSA	I	S051	021SS-38	1		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
103	SPIRE SSW Ch01-04 . 4+	SSA	I	S051	021SS-38	1		SSW-A2	HSSVMCB2	27	312200 J05	103	
113	SPIRE SSW Ch01-04 . 4-	SSA	I	S051	021SS-38	1			HSSVMCB2	27	312200 J05	113	
047	SPIRE SSW Ch01-04 . 4gnd	SSA	I	S051	021SS-38	1		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
058	SPIRE SSW Ch05-08 . 5+	SSA	I	S052	021SS-38	2		SSW-A1	HSSVMCB2	27	312200 J05	058	
046	SPIRE SSW Ch05-08 . 5-	SSA	I	S052	021SS-38	2			HSSVMCB2	27	312200 J05	046	
047	SPIRE SSW Ch05-08 . 5gnd	SSA	I	S052	021SS-38	2		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
068	SPIRE SSW Ch05-08 . 6+	SSA	I	S052	021SS-38	2		SSW-DK1	HSSVMCB2	27	312200 J05	068	
057	SPIRE SSW Ch05-08 . 6-	SSA	I	S052	021SS-38	2			HSSVMCB2	27	312200 J05	057	
047	SPIRE SSW Ch05-08 . 6gnd	SSA	I	S052	021SS-38	2		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
069	SPIRE SSW Ch05-08 . 7+	SSA	I	S052	021SS-38	2		SSW-B3	HSSVMCB2	27	312200 J05	069	
080	SPIRE SSW Ch05-08 . 7-	SSA	I	S052	021SS-38	2			HSSVMCB2	27	312200 J05	080	
047	SPIRE SSW Ch05-08 . 7gnd	SSA	I	S052	021SS-38	2		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
070	SPIRE SSW Ch05-08 . 8+	SSA	I	S052	021SS-38	2		SSW-B2	HSSVMCB2	27	312200 J05	070	
081	SPIRE SSW Ch05-08 . 8-	SSA	I	S052	021SS-38	2			HSSVMCB2	27	312200 J05	081	
047	SPIRE SSW Ch05-08 . 8gnd	SSA	I	S052	021SS-38	2		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
023	SPIRE SSW Ch09-12 . 9+	SSA	I	S054	021SS-38	3		SSW-B1	HSSVMCB2	27	312200 J05	023	
034	SPIRE SSW Ch09-12 . 9-	SSA	I	S054	021SS-38	3			HSSVMCB2	27	312200 J05	034	

# Pin Allocation List (Harness)

Connector: 211121 P31

Item: CVUUCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
Location: 33 / CVV I/F CB Top PFM (CWUUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal Pos.			Shd	Cable Twist						
047	SPIRE SSW Ch09-12 . 9gnd		SSA.I	-	S054	021SS-38	3		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
033	SPIRE SSW Ch09-12 . 10+		SSA.I	-	S054	021SS-38	3		SSW-C3	HSSVMCB2	27	312200 J05	033	
045	SPIRE SSW Ch09-12 . 10-		SSA.I	-	S054	021SS-38	3			HSSVMCB2	27	312200 J05	045	
047	SPIRE SSW Ch09-12 . 10gnd		SSA.I	-	S054	021SS-38	3		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
044	SPIRE SSW Ch09-12 . 11+		SSA.I	-	S054	021SS-38	3		SSW-C2	HSSVMCB2	27	312200 J05	044	
056	SPIRE SSW Ch09-12 . 11-		SSA.I	-	S054	021SS-38	3			HSSVMCB2	27	312200 J05	056	
047	SPIRE SSW Ch09-12 . 11gnd		SSA.I	-	S054	021SS-38	3		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
022	SPIRE SSW Ch09-12 . 12+		SSA.I	-	S054	021SS-38	3		SSW-C1	HSSVMCB2	27	312200 J05	022	
032	SPIRE SSW Ch09-12 . 12-		SSA.I	-	S054	021SS-38	3			HSSVMCB2	27	312200 J05	032	
047	SPIRE SSW Ch09-12 . 12gnd		SSA.I	-	S054	021SS-38	3		Daisy ch to Pin 047 (A1)	HSSVMCB2	27	312200 J05	047	
-	Faraday Link								Cable from P01 Faraday Shd con to Busbar					
128	SPIRE B02 GND Wire A2		SSX.-	-	S422	010B0-30			Con to Cable from P02 GND/Shds	HSSVMCB2	27	312200 J05	128	
086	SPIRE SSW Ch13-16 . 13+		SSA.I	-	S055	021SS-38	4		SSW-D3	HSSVMCB2	27	312200 J05	086	
087	SPIRE SSW Ch13-16 . 13-		SSA.I	-	S055	021SS-38	4			HSSVMCB2	27	312200 J05	087	
128	SPIRE SSW Ch13-16 . 13gnd		SSA.I	-	S055	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	128	
097	SPIRE SSW Ch13-16 . 14+		SSA.I	-	S055	021SS-38	4		SSW-D2	HSSVMCB2	27	312200 J05	097	
098	SPIRE SSW Ch13-16 . 14-		SSA.I	-	S055	021SS-38	4			HSSVMCB2	27	312200 J05	098	
128	SPIRE SSW Ch13-16 . 14gnd		SSA.I	-	S055	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	128	
108	SPIRE SSW Ch13-16 . 15+		SSA.I	-	S055	021SS-38	4		SSW-D1	HSSVMCB2	27	312200 J05	108	
109	SPIRE SSW Ch13-16 . 15-		SSA.I	-	S055	021SS-38	4			HSSVMCB2	27	312200 J05	109	
128	SPIRE SSW Ch13-16 . 15gnd		SSA.I	-	S055	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	128	
116	SPIRE SSW Ch13-16 . 16+		SSA.I	-	S055	021SS-38	4		SSW-E3	HSSVMCB2	27	312200 J05	116	
117	SPIRE SSW Ch13-16 . 16-		SSA.I	-	S055	021SS-38	4			HSSVMCB2	27	312200 J05	117	
128	SPIRE SSW Ch13-16 . 16gnd		SSA.I	-	S055	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	128	
055	SPIRE SSW Ch17-20 . 17+		SSA.I	-	S056	021SS-38	5		SSW-E2	HSSVMCB2	27	312200 J05	055	

# Pin Allocation List (Harness)

Connector: 211121 P31

Item: CVVUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal									
066	SPIRE SSW Ch17-20 . 17-	SSA.I	-	S056	021SS-38	5	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	066	
128	SPIRE SSW Ch17-20 . 17grnd	SSA.I	-	S056	021SS-38	5		HSSVMCB2	27	312200 J05	128	
067	SPIRE SSW Ch17-20 . 18+	SSA.I	-	S056	021SS-38	5	SSW-E1	HSSVMCB2	27	312200 J05	067	
078	SPIRE SSW Ch17-20 . 18-	SSA.I	-	S056	021SS-38	5	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	078	
128	SPIRE SSW Ch17-20 . 18grnd	SSA.I	-	S056	021SS-38	5		HSSVMCB2	27	312200 J05	128	
076	SPIRE SSW Ch17-20 . 19+	SSA.I	-	S056	021SS-38	5	SSW-F3	HSSVMCB2	27	312200 J05	076	
077	SPIRE SSW Ch17-20 . 19-	SSA.I	-	S056	021SS-38	5	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	077	
128	SPIRE SSW Ch17-20 . 19grnd	SSA.I	-	S056	021SS-38	5		HSSVMCB2	27	312200 J05	128	
088	SPIRE SSW Ch17-20 . 20+	SSA.I	-	S056	021SS-38	5	SSW-F2	HSSVMCB2	27	312200 J05	088	
089	SPIRE SSW Ch17-20 . 20-	SSA.I	-	S056	021SS-38	5	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	089	
128	SPIRE SSW Ch17-20 . 20grnd	SSA.I	-	S056	021SS-38	5		HSSVMCB2	27	312200 J05	128	
099	SPIRE SSW Ch21-24 . 21+	SSA.I	-	S058	021SS-38	6	SSW-F1	HSSVMCB2	27	312200 J05	099	
100	SPIRE SSW Ch21-24 . 21-	SSA.I	-	S058	021SS-38	6	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	100	
128	SPIRE SSW Ch21-24 . 21grnd	SSA.I	-	S058	021SS-38	6		HSSVMCB2	27	312200 J05	128	
110	SPIRE SSW Ch21-24 . 22+	SSA.I	-	S058	021SS-38	6	SSW-G1	HSSVMCB2	27	312200 J05	110	
111	SPIRE SSW Ch21-24 . 22-	SSA.I	-	S058	021SS-38	6	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	111	
128	SPIRE SSW Ch21-24 . 22grnd	SSA.I	-	S058	021SS-38	6		HSSVMCB2	27	312200 J05	128	
118	SPIRE SSW Ch21-24 . 23+	SSA.I	-	S058	021SS-38	6	SSW-T1	HSSVMCB2	27	312200 J05	118	
119	SPIRE SSW Ch21-24 . 23-	SSA.I	-	S058	021SS-38	6	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	119	
128	SPIRE SSW Ch21-24 . 23grnd	SSA.I	-	S058	021SS-38	6		HSSVMCB2	27	312200 J05	128	
112	SPIRE SSW Ch21-24 . 24+	SSA.I	-	S058	021SS-38	6	SSW-G2	HSSVMCB2	27	312200 J05	112	
120	SPIRE SSW Ch21-24 . 24-	SSA.I	-	S058	021SS-38	6	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J05	120	
128	SPIRE SSW Ch21-24 . 24grnd	SSA.I	-	S058	021SS-38	6		HSSVMCB2	27	312200 J05	128	
-	Faraday Link						Cable from P02 Faraday Shd con to Busbar					
005	SPIRE B02 GND Wire A4	SSX.-	-	S424	010B0-30		Con to Cable from P4 GND/Shd	HSSVMCB2	27	312200 J05	005	
013	SPIRE SSW Ch25-28 . 25+	SSA.I	-	S059	021SS-38	7	SSW-E5	HSSVMCB2	27	312200 J05	013	

# Pin Allocation List (Harness)

Connector: 211121 P31

Item: CVUUCR

EMC-Category: 2/ISig H fr CWFT to SVMCB

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
012	SPIRE SSW Ch25-28 . 25-	SSA.I	-	S059	021SS-38	7		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	012	
005	SPIRE SSW Ch25-28 . 25gnd	SSA.I	-	S059	021SS-38	7			HSSVMCB2	27	312200 J05	005	
021	SPIRE SSW Ch25-28 . 26+	SSA.I	-	S059	021SS-38	7		SSW-E4	27	312200 J05	021		
020	SPIRE SSW Ch25-28 . 26-	SSA.I	-	S059	021SS-38	7		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	020	
005	SPIRE SSW Ch25-28 . 26gnd	SSA.I	-	S059	021SS-38	7			HSSVMCB2	27	312200 J05	005	
031	SPIRE SSW Ch25-28 . 27+	SSA.I	-	S059	021SS-38	7		SSW-D7	27	312200 J05	031		
043	SPIRE SSW Ch25-28 . 27-	SSA.I	-	S059	021SS-38	7		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	043	
005	SPIRE SSW Ch25-28 . 27gnd	SSA.I	-	S059	021SS-38	7			HSSVMCB2	27	312200 J05	005	
042	SPIRE SSW Ch25-28 . 28+	SSA.I	-	S059	021SS-38	7		SSW-D6	27	312200 J05	042		
054	SPIRE SSW Ch25-28 . 28-	SSA.I	-	S059	021SS-38	7		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	054	
005	SPIRE SSW Ch25-28 . 28gnd	SSA.I	-	S059	021SS-38	7			HSSVMCB2	27	312200 J05	005	
010	SPIRE SSW Ch29-32 . 29+	SSA.I	-	S060	021SS-38	8		SSW-D5	27	312200 J05	010		
011	SPIRE SSW Ch29-32 . 29-	SSA.I	-	S060	021SS-38	8		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	011	
005	SPIRE SSW Ch29-32 . 29gnd	SSA.I	-	S060	021SS-38	8			HSSVMCB2	27	312200 J05	005	
019	SPIRE SSW Ch29-32 . 30+	SSA.I	-	S060	021SS-38	8		SSW-D4	27	312200 J05	019		
029	SPIRE SSW Ch29-32 . 30-	SSA.I	-	S060	021SS-38	8		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	029	
005	SPIRE SSW Ch29-32 . 30gnd	SSA.I	-	S060	021SS-38	8			HSSVMCB2	27	312200 J05	005	
041	SPIRE SSW Ch29-32 . 31+	SSA.I	-	S060	021SS-38	8		SSW-C6	27	312200 J05	041		
030	SPIRE SSW Ch29-32 . 31-	SSA.I	-	S060	021SS-38	8		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	030	
005	SPIRE SSW Ch29-32 . 31gnd	SSA.I	-	S060	021SS-38	8			HSSVMCB2	27	312200 J05	005	
053	SPIRE SSW Ch29-32 . 32+	SSA.I	-	S060	021SS-38	8		SSW-C5	27	312200 J05	053		
052	SPIRE SSW Ch29-32 . 32-	SSA.I	-	S060	021SS-38	8		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	052	
005	SPIRE SSW Ch29-32 . 32gnd	SSA.I	-	S060	021SS-38	8			HSSVMCB2	27	312200 J05	005	
009	SPIRE SSW Ch33-36 . 33+	SSA.I	-	S062	021SS-38	9		SSW-C4	27	312200 J05	009		
017	SPIRE SSW Ch33-36 . 33-	SSA.I	-	S062	021SS-38	9		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	017	
005	SPIRE SSW Ch33-36 . 33gnd	SSA.I	-	S062	021SS-38	9			HSSVMCB2	27	312200 J05	005	
018	SPIRE SSW Ch33-36 . 34+	SSA.I	-	S062	021SS-38	9		SSW-B5	27	312200 J05	018		
028	SPIRE SSW Ch33-36 . 34-	SSA.I	-	S062	021SS-38	9		Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	028	
									HSSVMCB2	27	312200 J05		

# Pin Allocation List (Harness)

Connector: 211121 P31  
Item: CVVUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
005	SPIRE SSW Ch33-36 . 34gnd	SSA.I	-	S062	021SS-38	9			Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	005	
016	SPIRE SSW Ch33-36 . 35+	SSA.I	-	S062	021SS-38	9			SSW-B4	HSSVMCB2	27	312200 J05	016	
027	SPIRE SSW Ch33-36 . 35-	SSA.I	-	S062	021SS-38	9				HSSVMCB2	27	312200 J05	027	
005	SPIRE SSW Ch33-36 . 35gnd	SSA.I	-	S062	021SS-38	9			Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	005	
040	SPIRE SSW Ch33-36 . 36+	SSA.I	-	S062	021SS-38	9			SSW-T2	HSSVMCB2	27	312200 J05	040	
039	SPIRE SSW Ch33-36 . 36-	SSA.I	-	S062	021SS-38	9				HSSVMCB2	27	312200 J05	039	
005	SPIRE SSW Ch33-36 . 36gnd	SSA.I	-	S062	021SS-38	9			Daisy ch to Pin 005 (A4)	HSSVMCB2	27	312200 J05	005	
-	Faraday Link								Cable from P04 Faraday Shd con to Busbar					
036	SPIRE B02 GND Wire A3	SSX.-	-	S423	010B0-30				Con to Cable from P03 GND/Shds	HSSVMCB2	27	312200 J05	036	
063	SPIRE SSW Spare1/2 . 1+		-						Not a wire, not routed in I Harness !!!					
075	SPIRE SSW Spare1/2 . 1-		-						Not a wire, not routed in I Harness !!!					
036	SPIRE SSW Spare1/2 . 1gnd		-						Not a wire, not routed in I Harness !!!					
074	SPIRE SSW Spare1/2 . 2+		-						Not a wire, not routed in I Harness !!!					
073	SPIRE SSW Spare1/2 . 2-		-						Not a wire, not routed in I Harness !!!					
036	SPIRE SSW Spare1/2 . 2gnd		-						Not a wire, not routed in I Harness !!!					
026	SPIRE SSW Ch37-40 . 37+	SSA.I	-	S063	021SS-38	10			SSW-G3	HSSVMCB2	27	312200 J05	026	
037	SPIRE SSW Ch37-40 . 37-	SSA.I	-	S063	021SS-38	10				HSSVMCB2	27	312200 J05	037	
036	SPIRE SSW Ch37-40 . 37gnd	SSA.I	-	S063	021SS-38	10			Daisy ch to Pin 036 (A3)	HSSVMCB2	27	312200 J05	036	
038	SPIRE SSW Ch37-40 . 38+	SSA.I	-	S063	021SS-38	10			SSW-G4	HSSVMCB2	27	312200 J05	038	
049	SPIRE SSW Ch37-40 . 38-	SSA.I	-	S063	021SS-38	10				HSSVMCB2	27	312200 J05	049	
036	SPIRE SSW Ch37-40 . 38gnd	SSA.I	-	S063	021SS-38	10			Daisy ch to Pin 036 (A3)	HSSVMCB2	27	312200 J05	036	



# Pin Allocation List

(Harness)

**Connector:** 211121 P31  
**Item:** CVUUCR

**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
048	SPIRE SSW Ch37-40 . 39+	SSA.I	-	S063	021SS-38	10		SSW-DK2	HSSVMCB2	27	312200 J05	048	
060	SPIRE SSW Ch37-40 . 39-	SSA.I	-	S063	021SS-38	10		Daisy ch to Pin 036 (A3)	HSSVMCB2	27	312200 J05	060	
036	SPIRE SSW Ch37-40 . 39grnd	SSA.I	-	S063	021SS-38	10			HSSVMCB2	27	312200 J05	036	
059	SPIRE SSW Ch37-40 . 40+	SSA.I	-	S063	021SS-38	10		SSW-F5	HSSVMCB2	27	312200 J05	059	
071	SPIRE SSW Ch37-40 . 40-	SSA.I	-	S063	021SS-38	10		Daisy ch to Pin 036 (A3)	HSSVMCB2	27	312200 J05	071	
036	SPIRE SSW Ch37-40 . 40grnd	SSA.I	-	S063	021SS-38	10			HSSVMCB2	27	312200 J05	036	
050	SPIRE SSW Ch41-42 . 41+	SSA.I	-	S064	021SS-38	11		SSW-F4	HSSVMCB2	27	312200 J05	050	
061	SPIRE SSW Ch41-42 . 41-	SSA.I	-	S064	021SS-38	11		Daisy ch to Pin 036 (A3)	HSSVMCB2	27	312200 J05	061	
036	SPIRE SSW Ch41-42 . 41grnd	SSA.I	-	S064	021SS-38	11			HSSVMCB2	27	312200 J05	036	
062	SPIRE SSW Ch41-42 . 42+	SSA.I	-	S064	021SS-38	11		SSW-E6	HSSVMCB2	27	312200 J05	062	
051	SPIRE SSW Ch41-42 . 42-	SSA.I	-	S064	021SS-38	11		Daisy ch to Pin 036 (A3)	HSSVMCB2	27	312200 J05	051	
036	SPIRE SSW Ch41-42 . 42grnd	SSA.I	-	S064	021SS-38	11			HSSVMCB2	27	312200 J05	036	
-	Faraday Link							Cable from P03 Faraday Shd con to Busbar					
082	SPIRE B02 GND Wire A5	SSX.-	-	S425	010B0-30			Con to Cable from P07 GND/Shds	HSSVMCB2	27	312200 J05	082	
095	SPIRE SSW PTC Ch's . 1+	S3D.I	-	S053	021SS-38	13		PTC-1	HSSVMCB2	27	312200 J05	095	
084	SPIRE SSW PTC Ch's . 1-	S3D.I	-	S053	021SS-38	13		Daisy ch to Pin 082 (B5)	HSSVMCB2	27	312200 J05	084	
082	SPIRE SSW PTC Ch's . 1grnd	S3D.I	-	S053	021SS-38	13			HSSVMCB2	27	312200 J05	082	
096	SPIRE SSW PTC Ch's . 2+	S3D.I	-	S053	021SS-38	13		PTC-2	HSSVMCB2	27	312200 J05	096	
085	SPIRE SSW PTC Ch's . 2-	S3D.I	-	S053	021SS-38	13		Daisy ch to Pin 082 (B5)	HSSVMCB2	27	312200 J05	085	
082	SPIRE SSW PTC Ch's . 2grnd	S3D.I	-	S053	021SS-38	13			HSSVMCB2	27	312200 J05	082	
106	SPIRE SSW PTC Ch's . 3+	S3D.I	-	S053	021SS-38	13		PTC-3	HSSVMCB2	27	312200 J05	106	
107	SPIRE SSW PTC Ch's . 3-	S3D.I	-	S053	021SS-38	13		Daisy ch to Pin 082 (B5)	HSSVMCB2	27	312200 J05	107	
082	SPIRE SSW PTC Ch's . 3grnd	S3D.I	-	S053	021SS-38	13			HSSVMCB2	27	312200 J05	082	
083	SPIRE SSW PTC (5MOhm) . Res+	S3D.I	-	S248	021SS-38	12		5M-1	HSSVMCB2	27	312200 J05	083	
072	SPIRE SSW PTC (5MOhm) . Res-	S3D.I	-	S248	021SS-38	12		Daisy ch to Pin 082 (B5)	HSSVMCB2	27	312200 J05	072	
082	SPIRE SSW PTC (5MOhm) . Rgnd	S3D.I	-	S248	021SS-38	12			HSSVMCB2	27	312200 J05	082	

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

**Connector:** 211121 P31  
**Item:** CVVUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal									
-	Faraday Link						Cable from P07 Faraday Shd con to Busbar					
001	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
002	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
003	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
005	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
006	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
007	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
008	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
014	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
015	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
024	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
025	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
035	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
093	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
094	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
104	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
105	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
114	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
115	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					

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Project: HERSCHEL

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

Connector: 211121 P31

Item: CVUUCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
121	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
122	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
123	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
124	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
125	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
126	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
127	Faraday Shield Pins						Connected to Bus Bar ECR0039 tbc					
CH	Connector Housing Insulating Jacket						CH isolated from Faraday Shd Insulating jacket between Bundle Overall Shd and Faraday Shd					
-	Overall Shd						Bundle Overall Shd con to Backshell					3.
-	Contact to inner overall Shield											3.



# Pin Allocation List (Harness)

**Connector:** 211121 P26  
**Item:** CVVUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr 250.8° (SPIRE XS-03JFP25.26.27.28)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
036	SPIRE PSW_JFETV_GND A1	SPX	-	S431	010B0-30		GND Wire A1 con to cable 176-185 Shd	HSSVMCB1	27	312100 J04	036	
026	SPIRE PSW_JFETV1_A_ A+	SPLI	-	S176	021BS-38	1		HSSVMCB1	27	312100 J04	026	
037	SPIRE PSW_JFETV1_A_ A-	SPLI	-	S176	021BS-38	1		HSSVMCB1	27	312100 J04	037	
036	SPIRE PSW_JFETV1_A_ SHD01	SPLI	-	S176	021BS-38	1	Cabel S176 daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
038	SPIRE PSW_JFETV2_A_ A+	SPLI	-	S177	021BS-38	2		HSSVMCB1	27	312100 J04	038	
049	SPIRE PSW_JFETV2_A_ A-	SPLI	-	S177	021BS-38	2		HSSVMCB1	27	312100 J04	049	
036	SPIRE PSW_JFETV2_A_ SHD02	SPLI	-	S177	021BS-38	2	Cabel S177 Shd daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
048	SPIRE PSW_JFETV3_A_ A+	SPLI	-	S178	021BS-38	3		HSSVMCB1	27	312100 J04	048	
060	SPIRE PSW_JFETV3_A_ A-	SPLI	-	S178	021BS-38	3		HSSVMCB1	27	312100 J04	060	
036	SPIRE PSW_JFETV3_A_ SHD03	SPLI	-	S178	021BS-38	3	Cabel S178 Shd daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
059	SPIRE PSW_JFETV4_A_ A+	SPLI	-	S179	021BS-38	4		HSSVMCB1	27	312100 J04	059	
071	SPIRE PSW_JFETV4_A_ A-	SPLI	-	S179	021BS-38	4		HSSVMCB1	27	312100 J04	071	
036	SPIRE PSW_JFETV4_A_ SHD04	SPLI	-	S179	021BS-38	4	Cabel S179 Shd daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
050	SPIRE PSW_JFETV5_A_ A+	SPLI	-	S180	021BS-38	5		HSSVMCB1	27	312100 J04	050	
061	SPIRE PSW_JFETV5_A_ A-	SPLI	-	S180	021BS-38	5		HSSVMCB1	27	312100 J04	061	
036	SPIRE PSW_JFETV5_A_ SHD05	SPLI	-	S180	021BS-38	5	Cabel S180 Shd daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
062	SPIRE PSW_JFETV6_A_ A+	SPLI	-	S181	021BS-38	6		HSSVMCB1	27	312100 J04	062	
051	SPIRE PSW_JFETV6_A_ A-	SPLI	-	S181	021BS-38	6		HSSVMCB1	27	312100 J04	051	
036	SPIRE PSW_JFETV6_A_ SHD06	SPLI	-	S181	021BS-38	6	Cabel S181 Shd daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
063	SPIRE PSW_Bias1/2_A_ A+	SPKI	-	S183	021BS-38	7		HSSVMCB1	27	312100 J04	063	
075	SPIRE PSW_Bias1/2_A_ A-	SPKI	-	S183	021BS-38	7		HSSVMCB1	27	312100 J04	075	
036	SPIRE PSW_Bias1/2_A_ SHD07	SPKI	-	S183	021BS-38	7	Cabel S183 Shd daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
074	SPIRE PSW_Bias3/4_A_ A+	SPKI	-	S184	021BS-38	8		HSSVMCB1	27	312100 J04	074	
073	SPIRE PSW_Bias3/4_A_ A-	SPKI	-	S184	021BS-38	8		HSSVMCB1	27	312100 J04	073	

# Pin Allocation List (Harness)

**Connector:** 211121 P26  
**Item:** CWUUCR

**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
**Location:** 33 / CVV / IF CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PSW_Bias3/4_A . SHD08	SPK.I -	S184	021BS-38	8		Cabel S184 Shd daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
083	SPIRE PSW_Bias5/6_A . A+	SPK.I -	S185	021BS-38	9			HSSVMCB1	27	312100 J04	083	
072	SPIRE PSW_Bias5/6_A . A-	SPK.I -	S185	021BS-38	9			HSSVMCB1	27	312100 J04	072	
036	SPIRE PSW_Bias5/6_A . SHD09	SPK.I -	S185	021BS-38	9		Cabel S185 Shd daisy ch to Pin 36 at CVV side (A1)	HSSVMCB1	27	312100 J04	036	
095	SPIRE PSW_Heater_A1 . A1+	SPM.- -	S186	021SS-38	10			HSSVMCB1	27	312100 J04	095	
084	SPIRE PSW_Heater_A1 . A1-	SPM.- -	S186	021SS-38	10			HSSVMCB1	27	312100 J04	084	
105	SPIRE PSW_Heater_A1 . SHD10	SPM.- -	S186	021SS-38	10		Cable Shd routed to Pin 105 at CVV side (routed as Gnd Wire B1)	HSSVMCB1	27	312100 J04	105	
096	SPIRE PSW_Heater_A2 . A2+	SPM.- -	S187	021SS-38	11			HSSVMCB1	27	312100 J04	096	
085	SPIRE PSW_Heater_A2 . A2-	SPM.- -	S187	021SS-38	11			HSSVMCB1	27	312100 J04	085	
105	SPIRE PSW_Heater_A2 . SHD11	SPM.- -	S187	021SS-38	11		Cable Shd routed to Pin 105 at CVV side (routed as Gnd Wire B1)	HSSVMCB1	27	312100 J04	105	
106	SPIRE PSW_Heater_A3 . A3+	SPM.- -	S188	021SS-38	12			HSSVMCB1	27	312100 J04	106	
107	SPIRE PSW_Heater_A3 . A3-	SPM.- -	S188	021SS-38	12			HSSVMCB1	27	312100 J04	107	
105	SPIRE PSW_Heater_A3 . SHD12	SPM.- -	S188	021SS-38	12		Cable Shd routed to Pin 105 at CVV side (B1)	HSSVMCB1	27	312100 J04	105	
105	SPIRE PSW_HTR GND B1	SPX.- -	S432	010B0-30			Sum of Cable SHDs, not a Wire at J side	HSSVMCB1	27	312100 J04	105	
-	Faraday Link						Cable from P25 Faraday Shd con to Busbar ECR0039tbc					
001	SPIRE PSW_JFETV_GND A3	SPX.- -	S433	010B0-30			GND Wire A3 con to cable 205-214 Shd	HSSVMCB1	27	312100 J04	001	
042	SPIRE PSW_JFETV1_B . B+	SPL.I -	S205	021BS-38	17			HSSVMCB1	27	312100 J04	042	
054	SPIRE PSW_JFETV1_B . B-	SPL.I -	S205	021BS-38	17			HSSVMCB1	27	312100 J04	054	
001	SPIRE PSW_JFETV1_B . SHD01	SPL.I -	S205	021BS-38	17		Cabel S205 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	001	
053	SPIRE PSW_JFETV2_B . B+	SPL.I -	S206	021BS-38	18			HSSVMCB1	27	312100 J04	053	

# Pin Allocation List (Harness)

**Connector:** 211121 P26

**Item:** CVVUCR

**EMC-Category:** 2/ISig H fr CWFT to SVMCB

**Function:** UFThr 250.8° (SPIRE XS-03JFP25.26.27.28)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
052	SPIRE PSW_JFETV2_B . B-	SPL.I	-	S206	021BS-38	18		Cabel S206 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	052	
001	SPIRE PSW_JFETV2_B . SHD02	SPL.I	-	S206	021BS-38	18			HSSVMCB1	27	312100 J04	001	
041	SPIRE PSW_JFETV3_B . B+	SPL.I	-	S207	021BS-38	19		Cabel S207 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	041	
030	SPIRE PSW_JFETV3_B . B-	SPL.I	-	S207	021BS-38	19			HSSVMCB1	27	312100 J04	030	
001	SPIRE PSW_JFETV3_B . SHD03	SPL.I	-	S207	021BS-38	19			HSSVMCB1	27	312100 J04	001	
010	SPIRE PSW_JFETV4_B . B+	SPL.I	-	S208	021BS-38	20		Cabel S208 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	010	
011	SPIRE PSW_JFETV4_B . B-	SPL.I	-	S208	021BS-38	20			HSSVMCB1	27	312100 J04	011	
001	SPIRE PSW_JFETV4_B . SHD04	SPL.I	-	S208	021BS-38	20			HSSVMCB1	27	312100 J04	001	
019	SPIRE PSW_JFETV5_B . B+	SPL.I	-	S209	021BS-38	21		Cabel S209 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	019	
029	SPIRE PSW_JFETV5_B . B-	SPL.I	-	S209	021BS-38	21			HSSVMCB1	27	312100 J04	029	
001	SPIRE PSW_JFETV5_B . SHD05	SPL.I	-	S209	021BS-38	21			HSSVMCB1	27	312100 J04	001	
016	SPIRE PSW_JFETV6_B . B+	SPL.I	-	S210	021BS-38	22		Cabel S210 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	016	
027	SPIRE PSW_JFETV6_B . B-	SPL.I	-	S210	021BS-38	22			HSSVMCB1	27	312100 J04	027	
001	SPIRE PSW_JFETV6_B . SHD06	SPL.I	-	S210	021BS-38	22			HSSVMCB1	27	312100 J04	001	
040	SPIRE PSW_Bias1/2_B . B+	SPK.I	-	S212	021BS-38	14		Cabel S212 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	040	
039	SPIRE PSW_Bias1/2_B . B-	SPK.I	-	S212	021BS-38	14			HSSVMCB1	27	312100 J04	039	
001	SPIRE PSW_Bias1/2_B . SHD07	SPK.I	-	S212	021BS-38	14			HSSVMCB1	27	312100 J04	001	
018	SPIRE PSW_Bias3/4_B . B+	SPK.I	-	S213	021BS-38	15		Cabel S213 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	018	
028	SPIRE PSW_Bias3/4_B . B-	SPK.I	-	S213	021BS-38	15			HSSVMCB1	27	312100 J04	028	
001	SPIRE PSW_Bias3/4_B . SHD08	SPK.I	-	S213	021BS-38	15			HSSVMCB1	27	312100 J04	001	
009	SPIRE PSW_Bias5/6_B . B+	SPK.I	-	S214	021BS-38	16		Cabel S214 Shd daisy ch to Pin 01 at CVV side (A3)	HSSVMCB1	27	312100 J04	009	
017	SPIRE PSW_Bias5/6_B . B-	SPK.I	-	S214	021BS-38	16			HSSVMCB1	27	312100 J04	017	
001	SPIRE PSW_Bias5/6_B . SHD09	SPK.I	-	S214	021BS-38	16			HSSVMCB1	27	312100 J04	001	

# Pin Allocation List (Harness)

**Connector:** 211121 P26  
**Item:** CVWUCR  
**EMC-Category:** 2I/Sig H fr CWVFT to SVMCB

**Function:** UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
**Location:** 33 / CVW I/F CB Top PFM (CWUJCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
005	SPIRE PSW_HTR_GND B3	SPX,- -	S434	010B0-30			Sum of Cable SHDs, not a Wire at J side	HSSVMCB1	27	312100 J04	005	
013	SPIRE PSW_Heater_B1 . B1+	SPM,- -	S215	021SS-38	23			HSSVMCB1	27	312100 J04	013	
012	SPIRE PSW_Heater_B1 . B1-	SPM,- -	S215	021SS-38	23			HSSVMCB1	27	312100 J04	012	
005	SPIRE PSW_Heater_B1 . SHD10	SPM,- -	S215	021SS-38	23		Cable Shd routed to Pin 005 at CVV side (routed as Gnd Wire B2)	HSSVMCB1	27	312100 J04	005	
021	SPIRE PSW_Heater_B2 . B2+	SPM,- -	S216	021SS-38	24			HSSVMCB1	27	312100 J04	021	
020	SPIRE PSW_Heater_B2 . B2-	SPM,- -	S216	021SS-38	24			HSSVMCB1	27	312100 J04	020	
005	SPIRE PSW_Heater_B2 . SHD11	SPM,- -	S216	021SS-38	24		Cable Shd routed to Pin 005 at CVV side (routed as Gnd Wire B2)	HSSVMCB1	27	312100 J04	005	
031	SPIRE PSW_Heater_B3 . B3+	SPM,- -	S217	021SS-38	25			HSSVMCB1	27	312100 J04	031	
043	SPIRE PSW_Heater_B3 . B3-	SPM,- -	S217	021SS-38	25			HSSVMCB1	27	312100 J04	043	
005	SPIRE PSW_Heater_B3 . SHD12	SPM,- -	S217	021SS-38	25		Cable Shd routed to Pin 005 at CVV side (B2)	HSSVMCB1	27	312100 J04	005	
-	Faraday Link						Cable from P26 Faraday Shd con to Busbar ECR0039tbc					
064	SPIRE PMW_GND A2	SPX,- -	S435	010B0-30			GND Wire A2 con to cable 190-195 Shd	HSSVMCB1	27	312100 J04	064	
086	SPIRE PMW_JFETV1_A . A+	SPH,I -	S190	021BS-38	34			HSSVMCB1	27	312100 J04	086	
087	SPIRE PMW_JFETV1_A . A-	SPH,I -	S190	021BS-38	34			HSSVMCB1	27	312100 J04	087	
064	SPIRE PMW_JFETV1_A . SHD01	SPH,I -	S190	021BS-38	34		Cabel S190 Shd daisy ch to Pin 64 at CVW side (A2)	HSSVMCB1	27	312100 J04	064	
097	SPIRE PMW_JFETV2_A . A+	SPH,I -	S191	021BS-38	35			HSSVMCB1	27	312100 J04	097	
098	SPIRE PMW_JFETV2_A . A-	SPH,I -	S191	021BS-38	35			HSSVMCB1	27	312100 J04	098	
064	SPIRE PMW_JFETV2_A . SHD02	SPH,I -	S191	021BS-38	35		Cabel S191 Shd daisy ch to Pin 64 at CVW side (A2)	HSSVMCB1	27	312100 J04	064	
108	SPIRE PMW_JFETV3_A . A+	SPH,I -	S192	021BS-38	36			HSSVMCB1	27	312100 J04	108	
109	SPIRE PMW_JFETV3_A . A-	SPH,I -	S192	021BS-38	36			HSSVMCB1	27	312100 J04	109	
064	SPIRE PMW_JFETV3_A . SHD03	SPH,I -	S192	021BS-38	36		Cabel S192 Shd daisy ch to Pin 64 at CVW side (A2)	HSSVMCB1	27	312100 J04	064	



# Pin Allocation List (Harness)

Connector: 211121 P26

Item: CVVUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr 250.8° (SPIRE XS-03JFP25.26.27.28)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
116	SPIRE PMW_JFETV4_A.A+	SPH.I	-	S193	021BS-38	37		Cabel S193 Shd daisy ch to Pin 64 at CVV side (A2)	HSSVMCB1	27	312100 J04	116	
117	SPIRE PMW_JFETV4_A.A-	SPH.I	-	S193	021BS-38	37			HSSVMCB1	27	312100 J04	117	
064	SPIRE PMW_JFETV4_A.SHD04	SPH.I	-	S193	021BS-38	37			HSSVMCB1	27	312100 J04	064	
076	SPIRE PMW_Bias1/2_A.A+	SPG.I	-	S194	021BS-38	32		Cabel S194 Shd daisy ch to Pin 64 at CVV side (A2)	HSSVMCB1	27	312100 J04	076	
077	SPIRE PMW_Bias1/2_A.A-	SPG.I	-	S194	021BS-38	32			HSSVMCB1	27	312100 J04	077	
064	SPIRE PMW_Bias1/2_A.SHD05	SPG.I	-	S194	021BS-38	32			HSSVMCB1	27	312100 J04	064	
088	SPIRE PMW_Bias3/4_A.A+	SPG.I	-	S195	021BS-38	33		Cabel S195 Shd daisy ch to Pin 64 at CVV side (A2)	HSSVMCB1	27	312100 J04	088	
089	SPIRE PMW_Bias3/4_A.A-	SPG.I	-	S195	021BS-38	33			HSSVMCB1	27	312100 J04	089	
064	SPIRE PMW_Bias3/4_A.SHD06	SPG.I	-	S195	021BS-38	33			HSSVMCB1	27	312100 J04	064	
114	SPIRE HTR GND B2	SPX.-	-	S436	010B0-30			Sum of Cable SHDs, not a Wire at J side PAGE 132 to be clarified !!	HSSVMCB1	27	312100 J04	114	
103	SPIRE PMW_Heater_A1.A1+	SPJ.-	-	S197	021SS-38	38		Cable Shd routed to Pin 114 at CVV side (routed as Gnd Wire B2)	HSSVMCB1	27	312100 J04	103	
113	SPIRE PMW_Heater_A1.A1-	SPJ.-	-	S197	021SS-38	38			HSSVMCB1	27	312100 J04	113	
114	SPIRE PMW_Heater_A1.SHD07	SPJ.-	-	S197	021SS-38	38			HSSVMCB1	27	312100 J04	114	
102	SPIRE PMW_Heater_A2.A2+	SPJ.-	-	S198	021SS-38	39		Cable Shd routed to Pin 114 at CVV side (routed as Gnd Wire B2)	HSSVMCB1	27	312100 J04	102	
101	SPIRE PMW_Heater_A2.A2-	SPJ.-	-	S198	021SS-38	39			HSSVMCB1	27	312100 J04	101	
114	SPIRE PMW_Heater_A2.SHD08	SPJ.-	-	S198	021SS-38	39			HSSVMCB1	27	312100 J04	114	
092	SPIRE PLW_Heater_A.A+	SPF.-	-	S199	021SS-38	31		Cable Shd routed to Pin 093 at CVV side (routed as Gnd Wire D2)	HSSVMCB1	27	312100 J04	092	
104	SPIRE PLW_Heater_A.A-	SPF.-	-	S199	021SS-38	31			HSSVMCB1	27	312100 J04	104	
114	SPIRE PLW_Heater_A.SHD09	SPF.-	-	S199	021SS-38	31			HSSVMCB1	27	312100 J04	114	3.
99	SPIRE PLW_JFETV1_A.A+	SPE.I	-	S200	021BS-38	29			HSSVMCB1	27	312100 J04	99	

# Pin Allocation List

(Harness)

**Connector:** 211121 P26  
**Item:** CWUUCR  
**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
100	SPIRE PLW_JFETV1_A . A-	SPE.I	-	S200	021BS-38	29		Cabel S200 Shd daisy ch to Pin 128 at CVV side (C2)	HSSVMCB1	27	312100 J04	100	
128	SPIRE PLW_JFETV1_A . SHD10	SPE.I	-	S200	021BS-38	29			HSSVMCB1	27	312100 J04	128	
110	SPIRE PLW_JFETV2_A . A+	SPE.I	-	S201	021BS-38	30		Cabel S201Shd daisy ch to Pin 128 at CVV side (C2)	HSSVMCB1	27	312100 J04	110	
111	SPIRE PLW_JFETV2_A . A-	SPE.I	-	S201	021BS-38	30			HSSVMCB1	27	312100 J04	111	
128	SPIRE PLW_JFETV2_A . SHD11	SPE.I	-	S201	021BS-38	30			HSSVMCB1	27	312100 J04	128	
118	SPIRE PLW_Bias1_A . A+	SPD.I	-	S202	021BS-38	27		Cabel Shd daisy ch to Pin 128 at CVV side (C2)	HSSVMCB1	27	312100 J04	118	
119	SPIRE PLW_Bias1_A . A-	SPD.I	-	S202	021BS-38	27			HSSVMCB1	27	312100 J04	119	
128	SPIRE PLW_Bias1_A . SHD12	SPD.I	-	S202	021BS-38	27			HSSVMCB1	27	312100 J04	128	
112	SPIRE PLW_Bias2_A . A+	SPD.I	-	S203	021BS-38	28		Cabel Shd daisy ch to Pin 128 at CVV side (C2)	HSSVMCB1	27	312100 J04	112	
120	SPIRE PLW_Bias2_A . A-	SPD.I	-	S203	021BS-38	28			HSSVMCB1	27	312100 J04	120	
128	SPIRE PLW_Bias2_A . SHD13	SPD.I	-	S203	021BS-38	28			HSSVMCB1	27	312100 J04	128	
128	SPIRE PLW_GND C2	SPX.-	-	S437	01050-30			GND Wire C2 con to Cable SHDs	HSSVMCB1	27	312100 J04	128	
-	Faraday Link							Cable from P27 Faraday Shd con to Busbar ECR0039tbc					
006	SPIRE PMW_GND A4	SPX.-	-	S438	01050-30			GND Wire A4 con to P28 SHDs	HSSVMCB1	27	312100 J04	006	
007	SPIRE PMW_JFETV1_B . B+	SPH.I	-	S219	021BS-38	49		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	HSSVMCB1	27	312100 J04	007	
014	SPIRE PMW_JFETV1_B . B-	SPH.I	-	S219	021BS-38	49			HSSVMCB1	27	312100 J04	014	
006	SPIRE PMW_JFETV1_B . SHD01	SPH.I	-	S219	021BS-38	49			HSSVMCB1	27	312100 J04	006	
024	SPIRE PMW_JFETV2_B . B+	SPH.I	-	S220	021BS-38	50		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	HSSVMCB1	27	312100 J04	024	
035	SPIRE PMW_JFETV2_B . B-	SPH.I	-	S220	021BS-38	50			HSSVMCB1	27	312100 J04	035	
006	SPIRE PMW_JFETV2_B . SHD02	SPH.I	-	S220	021BS-38	50			HSSVMCB1	27	312100 J04	006	
023	SPIRE PMW_JFETV3_B . B+	SPH.I	-	S221	021BS-38	51		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	HSSVMCB1	27	312100 J04	023	
034	SPIRE PMW_JFETV3_B . B-	SPH.I	-	S221	021BS-38	51			HSSVMCB1	27	312100 J04	034	

# Pin Allocation List (Harness)

**Connector:** 211121 P26  
**Item:** CVUUCR

**EMC-Category:** 2/Sig H fr CVWFT to SVMCB

**Function:** UFTThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
006	SPIRE PMW_JFETV3_B . SHD03	SPH.I -		S221	021BS-38	51		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	HSSVMCB1	27	312100 J04	006	
033	SPIRE PMW_JFETV4_B . B+	SPH.I -		S222	021BS-38	52			HSSVMCB1	27	312100 J04	033	
045	SPIRE PMW_JFETV4_B . B-	SPH.I -		S222	021BS-38	52			HSSVMCB1	27	312100 J04	045	
006	SPIRE PMW_JFETV4_B . SHD04	SPH.I -		S222	021BS-38	52		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	HSSVMCB1	27	312100 J04	006	
044	SPIRE PMW_Bias1/2_B . B+	SPG.I -		S223	021BS-38	47			HSSVMCB1	27	312100 J04	044	
056	SPIRE PMW_Bias1/2_B . B-	SPG.I -		S223	021BS-38	47			HSSVMCB1	27	312100 J04	056	
006	SPIRE PMW_Bias1/2_B . SHD05	SPG.I -		S223	021BS-38	47		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	HSSVMCB1	27	312100 J04	006	
022	SPIRE PMW_Bias3/4_B . B+	SPG.I -		S224	021BS-38	48			HSSVMCB1	27	312100 J04	022	
032	SPIRE PMW_Bias3/4_B . B-	SPG.I -		S224	021BS-38	48			HSSVMCB1	27	312100 J04	032	
006	SPIRE PMW_Bias3/4_B . SHD06	SPG.I -		S224	021BS-38	48		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	HSSVMCB1	27	312100 J04	006	
055	SPIRE PMW_Heater_B1 . B1+	SPJ.-		S226	021SS-38	53			HSSVMCB1	27	312100 J04	055	
066	SPIRE PMW_Heater_B1 . B1-	SPJ.-		S226	021SS-38	53			HSSVMCB1	27	312100 J04	066	
065	SPIRE PMW_Heater_B1 . SHD07	SPJ.-		S226	021SS-38	53		Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	HSSVMCB1	27	312100 J04	065	
067	SPIRE PMW_Heater_B2 . B2+	SPJ.-		S227	021SS-38	54			HSSVMCB1	27	312100 J04	067	
078	SPIRE PMW_Heater_B2 . B2-	SPJ.-		S227	021SS-38	54			HSSVMCB1	27	312100 J04	078	
065	SPIRE PMW_Heater_B2 . SHD08	SPJ.-		S227	021SS-38	54		Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	HSSVMCB1	27	312100 J04	065	
090	SPIRE PLW_Heater_B . B+	SPF.-		S228	021SS-38	46			HSSVMCB1	27	312100 J04	090	
079	SPIRE PLW_Heater_B . B-	SPF.-		S228	021SS-38	46			HSSVMCB1	27	312100 J04	079	
065	SPIRE PLW_Heater_B . SHD09	SPF.-		S228	021SS-38	46		Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	HSSVMCB1	27	312100 J04	065	
091	SPIRE PLW_GND C4	SPX.-		S440	010B0-30			GND Wire C4 con to Cable SHDs	HSSVMCB1	27	312100 J04	091	

# Pin Allocation List

(Harness)

**Connector:** 211121 P26

**Item:** CWUUCR

**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)

**Location:** 33 / CVV /IF CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal	Pos.	Ch. ID	Wiring						
070	SPIRE PLW_JFETV1_B . B+	SPE.I	-	S229	021BS-38	44	Cabel S229 Shd daisy ch to Pin 91 at CVV side (C4)	HSSVMCB1	27	312100 J04	070	
081	SPIRE PLW_JFETV1_B . B-	SPE.I	-	S229	021BS-38	44		HSSVMCB1	27	312100 J04	081	
091	SPIRE PLW_JFETV1_B . SHD10	SPE.I	-	S229	021BS-38	44		HSSVMCB1	27	312100 J04	091	
069	SPIRE PLW_JFETV2_B . B+	SPE.I	-	S230	021BS-38	45	Cabel S230 Shd daisy ch to Pin 91 at CVV side (C4)	HSSVMCB1	27	312100 J04	069	
080	SPIRE PLW_JFETV2_B . B-	SPE.I	-	S230	021BS-38	45		HSSVMCB1	27	312100 J04	080	
091	SPIRE PLW_JFETV2_B . SHD11	SPE.I	-	S230	021BS-38	45		HSSVMCB1	27	312100 J04	091	
068	SPIRE PLW_Bias1_B . B+	SPD.I	-	S231	021BS-38	42	Cabel S231 Shd daisy ch to Pin 91 at CVV side (C4)	HSSVMCB1	27	312100 J04	068	
057	SPIRE PLW_Bias1_B . B-	SPD.I	-	S231	021BS-38	42		HSSVMCB1	27	312100 J04	057	
091	SPIRE PLW_Bias1_B . SHD12	SPD.I	-	S231	021BS-38	42		HSSVMCB1	27	312100 J04	091	
058	SPIRE PLW_Bias2_B . B+	SPD.I	-	S232	021BS-38	43	Cabel S232Shd daisy ch to Pin 91 at CVV side (C4)	HSSVMCB1	27	312100 J04	058	
046	SPIRE PLW_Bias2_B . B-	SPD.I	-	S232	021BS-38	43		HSSVMCB1	27	312100 J04	046	
091	SPIRE PLW_Bias2_B . SHD13	SPD.I	-	S232	021BS-38	43		HSSVMCB1	27	312100 J04	091	
-	Faraday Link	-	-	-	-	-	Cable from P28 Faraday Shd con to Busbar ECR0039tbc	-	-	-	-	-
002	Faraday Shd Pins	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
003	Faraday Shd Pins	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
004	Faraday Shd Pins	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
005	Faraday Shd Pins	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
007	Faraday Shd Pins	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
008	Faraday Shd Pins	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
015	Faraday Shd Pins	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
025	Faraday Shd Pins	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-9 (of 9)

Connector: 211121 P26  
Item: CVWUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)  
Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
047	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
065	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
082	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
093	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
094	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
105	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
114	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
115	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
121	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
122	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
123	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
124	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
125	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
126	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
127	Faraday Shd Pins	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc	-	-	-	-	-
-	Connector Housing	-	-	-	-	-	-	CH isolated from Faraday Shd	-	-	-	-	-
-	Insulating Jacket	-	-	-	-	-	-	Insulating Jacket between Bundle Overall Shd and Faraday Shd	-	-	-	-	-
-	Bundle Overall Shd	-	-	-	-	-	-	Bundle Overall Shd co to Backshell	-	-	-	-	-
-	to inner overall shield	-	-	-	-	-	-		-	-	-	-	3.





# Pin Allocation List (Harness)

**Connector:** 211121 P22

**Item:** CVUUCR

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** UFTnr 193.0° (SPIRE XS-04JFP21,22,23,24)

**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PMW B04 GND WIRE A1	SPX	-	S441	010B0-30			Con to Cable from P24 GND/Shds	HSSVMCB1	27	312100 J03	036	
026	SPIRE PMW Ch01 to 04 . 1+	SPB.I	-	S067	021SS-38	1		PMW-F10	HSSVMCB1	27	312100 J03	026	
037	SPIRE PMW Ch01 to 04 . 1-	SPB.I	-	S067	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	037	
036	SPIRE PMW Ch01 to 04 . 1gnd	SPB.I	-	S067	021SS-38	1			HSSVMCB1	27	312100 J03	036	
038	SPIRE PMW Ch01 to 04 . 2+	SPB.I	-	S067	021SS-38	1		PMW-E11	HSSVMCB1	27	312100 J03	038	
049	SPIRE PMW Ch01 to 04 . 2-	SPB.I	-	S067	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	049	
036	SPIRE PMW Ch01 to 04 . 2gnd	SPB.I	-	S067	021SS-38	1			HSSVMCB1	27	312100 J03	036	
048	SPIRE PMW Ch01 to 04 . 3+	SPB.I	-	S067	021SS-38	1		PMW-G11	HSSVMCB1	27	312100 J03	048	
060	SPIRE PMW Ch01 to 04 . 3-	SPB.I	-	S067	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	060	
036	SPIRE PMW Ch01 to 04 . 3gnd	SPB.I	-	S067	021SS-38	1			HSSVMCB1	27	312100 J03	036	
059	SPIRE PMW Ch01 to 04 . 4+	SPB.I	-	S067	021SS-38	1		PMW-F11	HSSVMCB1	27	312100 J03	059	
071	SPIRE PMW Ch01 to 04 . 4-	SPB.I	-	S067	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	071	
036	SPIRE PMW Ch01 to 04 . 4gnd	SPB.I	-	S067	021SS-38	1			HSSVMCB1	27	312100 J03	036	
050	SPIRE PMW Ch05 to 08 . 5+	SPB.I	-	S068	021SS-38	2		PMW-E12	HSSVMCB1	27	312100 J03	050	
061	SPIRE PMW Ch05 to 08 . 5-	SPB.I	-	S068	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	061	
036	SPIRE PMW Ch05 to 08 . 5gnd	SPB.I	-	S068	021SS-38	2			HSSVMCB1	27	312100 J03	036	
062	SPIRE PMW Ch05 to 08 . 6+	SPB.I	-	S068	021SS-38	2		PMW-G12	HSSVMCB1	27	312100 J03	062	
051	SPIRE PMW Ch05 to 08 . 6-	SPB.I	-	S068	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	051	
036	SPIRE PMW Ch05 to 08 . 6gnd	SPB.I	-	S068	021SS-38	2			HSSVMCB1	27	312100 J03	036	
063	SPIRE PMW Ch05 to 08 . 7+	SPB.I	-	S068	021SS-38	2		PMW-F12	HSSVMCB1	27	312100 J03	063	
075	SPIRE PMW Ch05 to 08 . 7-	SPB.I	-	S068	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	075	
036	SPIRE PMW Ch05 to 08 . 7gnd	SPB.I	-	S068	021SS-38	2			HSSVMCB1	27	312100 J03	036	
074	SPIRE PMW Ch05 to 08 . 8+	SPB.I	-	S068	021SS-38	2		PMW-G13	HSSVMCB1	27	312100 J03	074	
073	SPIRE PMW Ch05 to 08 . 8-	SPB.I	-	S068	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	073	
036	SPIRE PMW Ch05 to 08 . 8gnd	SPB.I	-	S068	021SS-38	2			HSSVMCB1	27	312100 J03	036	
083	SPIRE PMW Ch09 to 12 . 9+	SPB.I	-	S069	021SS-38	3		PMW-DK2	HSSVMCB1	27	312100 J03	083	
072	SPIRE PMW Ch09 to 12 . 9-	SPB.I	-	S069	021SS-38	3			HSSVMCB1	27	312100 J03	072	



# Pin Allocation List (Harness)

**Connector:** 211121 P22  
**Item:** CWUJCR

**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)  
**Location:** 33 / CWV I/F CB Top PFM (CWUJCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PMW Ch09 to 12 . 9gnd	SPB.I -	S069	021SS-38	3			Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	036	
095	SPIRE PMW Ch09 to 12 . 10+	SPB.I -	S069	021SS-38	3			SPARE Channel	HSSVMCB1	27	312100 J03	095	
084	SPIRE PMW Ch09 to 12 . 10-	SPB.I -	S069	021SS-38	3			SPARE Channel	HSSVMCB1	27	312100 J03	084	
036	SPIRE PMW Ch09 to 12 . 10gnd	SPB.I -	S069	021SS-38	3			Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	036	
096	SPIRE PMW Ch09 to 12 . 11+	SPB.I -	S069	021SS-38	3			SPARE Channel	HSSVMCB1	27	312100 J03	096	
085	SPIRE PMW Ch09 to 12 . 11-	SPB.I -	S069	021SS-38	3			SPARE Channel	HSSVMCB1	27	312100 J03	085	
036	SPIRE PMW Ch09 to 12 . 11gnd	SPB.I -	S069	021SS-38	3			Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	036	
106	SPIRE PMW Ch09 to 12 . 12+	SPB.I -	S069	021SS-38	3			SPARE Channel	HSSVMCB1	27	312100 J03	106	
107	SPIRE PMW Ch09 to 12 . 12-	SPB.I -	S069	021SS-38	3			SPARE Channel	HSSVMCB1	27	312100 J03	107	
036	SPIRE PMW Ch09 to 12 . 12gnd	SPB.I -	S069	021SS-38	3			Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J03	036	
-	Faraday link							Cable from P24 Faraday Shd con to Busbar tbc					
128	SPIRE PMW B04 GND Wire A2	SPX.-	S442	010B0-30				Con to Cable from P23 GND/Shds	HSSVMCB1	27	312100 J03	128	
086	SPIRE PMW Ch 13 to 16 . 13+	SPB.I -	S072	021SS-38	4			PMW-E7	HSSVMCB1	27	312100 J03	086	
087	SPIRE PMW Ch 13 to 16 . 13-	SPB.I -	S072	021SS-38	4				HSSVMCB1	27	312100 J03	087	
036	SPIRE PMW Ch 13 to 16 . 13gnd	SPB.I -	S072	021SS-38	4			Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	036	3.
097	SPIRE PMW Ch 13 to 16 . 14+	SPB.I -	S072	021SS-38	4			PMW-D7	HSSVMCB1	27	312100 J03	097	
098	SPIRE PMW Ch 13 to 16 . 14-	SPB.I -	S072	021SS-38	4				HSSVMCB1	27	312100 J03	098	
036	SPIRE PMW Ch 13 to 16 . 14gnd	SPB.I -	S072	021SS-38	4			Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	036	3.
108	SPIRE PMW Ch 13 to 16 . 15+	SPB.I -	S072	021SS-38	4			PMW-F7	HSSVMCB1	27	312100 J03	108	
109	SPIRE PMW Ch 13 to 16 . 15-	SPB.I -	S072	021SS-38	4				HSSVMCB1	27	312100 J03	109	
036	SPIRE PMW Ch 13 to 16 . 15gnd	SPB.I -	S072	021SS-38	4			Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	036	3.
116	SPIRE PMW Ch 13 to 16 . 16+	SPB.I -	S072	021SS-38	4			PMW-E8	HSSVMCB1	27	312100 J03	116	
117	SPIRE PMW Ch 13 to 16 . 16-	SPB.I -	S072	021SS-38	4				HSSVMCB1	27	312100 J03	117	
036	SPIRE PMW Ch 13 to 16 . 16gnd	SPB.I -	S072	021SS-38	4			Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	036	3.
055	SPIRE PMW Ch17 to 19 . 17+	SPB.I -	S073	021SS-38	5			PMW-G8	HSSVMCB1	27	312100 J03	055	

# Pin Allocation List (Harness)

**Connector:** 211121 P22

**Item:** CWVUCR

**EMC-Category:** 2I/Sig H fr CWVFT to SVMCB

**Function:** UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)

**Location:** 33 / CWV I/F CB Top PFM (CWVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
066	SPIRE PMW Ch17 to 19 . 17-	SPB.I	-	S073	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	066	
128	SPIRE PMW Ch17 to 19 . 17gnd	SPB.I	-	S073	021SS-38	5			HSSVMCB1	27	312100 J03	128	
067	SPIRE PMW Ch17 to 19 . 18+	SPB.I	-	S073	021SS-38	5		PMW-F8	HSSVMCB1	27	312100 J03	067	
078	SPIRE PMW Ch17 to 19 . 18-	SPB.I	-	S073	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	078	
128	SPIRE PMW Ch17 to 19 . 18gnd	SPB.I	-	S073	021SS-38	5			HSSVMCB1	27	312100 J03	128	
076	SPIRE PMW Ch17 to 19 . 19+	SPB.I	-	S073	021SS-38	5		PMW-E9	HSSVMCB1	27	312100 J03	076	
077	SPIRE PMW Ch17 to 19 . 19-	SPB.I	-	S073	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	077	
128	SPIRE PMW Ch17 to 19 . 19gnd	SPB.I	-	S073	021SS-38	5			HSSVMCB1	27	312100 J03	128	
088	SPIRE PMW Ch 20 . 20+	SPB.-	-	S73A	12AXD-38	5		PMW-G9	HSSVMCB1	27	312100 J03	088	
089	SPIRE PMW Ch 20 . 20-	SPB.-	-	S73A	12AXD-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	089	
128	SPIRE PMW Ch 20 . 20gnd	SPB.-	-	S73A	12AXD-38	5			HSSVMCB1	27	312100 J03	128	
099	SPIRE PMW Ch21 to 24 . 21+	SPB.I	-	S074	021SS-38	6		PMW-D9	HSSVMCB1	27	312100 J03	099	
100	SPIRE PMW Ch21 to 24 . 21-	SPB.I	-	S074	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	100	
128	SPIRE PMW Ch21 to 24 . 21gnd	SPB.I	-	S074	021SS-38	6			HSSVMCB1	27	312100 J03	128	
110	SPIRE PMW Ch21 to 24 . 22+	SPB.I	-	S074	021SS-38	6		PMW-F9	HSSVMCB1	27	312100 J03	110	
111	SPIRE PMW Ch21 to 24 . 22-	SPB.I	-	S074	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	111	
128	SPIRE PMW Ch21 to 24 . 22gnd	SPB.I	-	S074	021SS-38	6			HSSVMCB1	27	312100 J03	128	
118	SPIRE PMW Ch21 to 24 . 23+	SPB.I	-	S074	021SS-38	6		PMW-E10	HSSVMCB1	27	312100 J03	118	
119	SPIRE PMW Ch21 to 24 . 23-	SPB.I	-	S074	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	119	
128	SPIRE PMW Ch21 to 24 . 23gnd	SPB.I	-	S074	021SS-38	6			HSSVMCB1	27	312100 J03	128	
112	SPIRE PMW Ch21 to 24 . 24+	SPB.I	-	S074	021SS-38	6		PMW-G10	HSSVMCB1	27	312100 J03	112	
120	SPIRE PMW Ch21 to 24 . 24-	SPB.I	-	S074	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J03	120	
128	SPIRE PMW Ch21 to 24 . 24gnd	SPB.I	-	S074	021SS-38	6			HSSVMCB1	27	312100 J03	128	
-	Faraday link							Cable from P23 Faraday Shd con to Busbar tbc					
047	SPIRE PMW B04 GND Wire A3	SPX.-	-	S443	010B0-30			Con to Cable from P22 GND /Shds	HSSVMCB1	27	312100 J03	047	

# Pin Allocation List (Harness)

Connector: 211121 P22

Item: CVVUCR

EMC-Category: 2/Sig H fr CWVFT to SVMCB

Function: UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Circuit	Signal Pos.	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
				Ch. ID	Wiring	Shd Cable Twist						
090	SPIRE PMW Ch25 to 28 . 25+	SPB.I -		S076	021SS-38	8	PMW-C4	HSSVMCB1	27	312100 J03	090	
079	SPIRE PMW Ch25 to 28 . 25-	SPB.I -		S076	021SS-38	8	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	079	
128	SPIRE PMW Ch25 to 28 . 25gnd	SPB.I -		S076	021SS-38	8		HSSVMCB1	27	312100 J03	128	3.
102	SPIRE PMW Ch25 to 28 . 26+	SPB.I -		S076	021SS-38	8	PMW-B3	HSSVMCB1	27	312100 J03	102	
101	SPIRE PMW Ch25 to 28 . 26-	SPB.I -		S076	021SS-38	8	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	101	
128	SPIRE PMW Ch25 to 28 . 26gnd	SPB.I -		S076	021SS-38	8		HSSVMCB1	27	312100 J03	128	3.
092	SPIRE PMW Ch25 to 28 . 27+	SPB.I -		S076	021SS-38	8	PMW-C3	HSSVMCB1	27	312100 J03	092	
091	SPIRE PMW Ch25 to 28 . 27-	SPB.I -		S076	021SS-38	8	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	091	
128	SPIRE PMW Ch25 to 28 . 27gnd	SPB.I -		S076	021SS-38	8		HSSVMCB1	27	312100 J03	128	3.
103	SPIRE PMW Ch25 to 28 . 28+	SPB.I -		S076	021SS-38	8	PMW-B2	HSSVMCB1	27	312100 J03	103	
113	SPIRE PMW Ch25 to 28 . 28-	SPB.I -		S076	021SS-38	8	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	113	
128	SPIRE PMW Ch25 to 28 . 28gnd	SPB.I -		S076	021SS-38	8		HSSVMCB1	27	312100 J03	128	3.
058	SPIRE PMW Ch29 to 32 . 29+	SPB.I -		S077	021SS-38	9	PMW-D2	HSSVMCB1	27	312100 J03	058	
046	SPIRE PMW Ch29 to 32 . 29-	SPB.I -		S077	021SS-38	9	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	046	
128	SPIRE PMW Ch29 to 32 . 29gnd	SPB.I -		S077	021SS-38	9		HSSVMCB1	27	312100 J03	128	3.
068	SPIRE PMW Ch29 to 32 . 30+	SPB.I -		S077	021SS-38	9	PMW-A3	HSSVMCB1	27	312100 J03	068	
057	SPIRE PMW Ch29 to 32 . 30-	SPB.I -		S077	021SS-38	9	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	057	
128	SPIRE PMW Ch29 to 32 . 30gnd	SPB.I -		S077	021SS-38	9		HSSVMCB1	27	312100 J03	128	3.
069	SPIRE PMW Ch29 to 32 . 31+	SPB.I -		S077	021SS-38	9	PMW-A2	HSSVMCB1	27	312100 J03	069	
080	SPIRE PMW Ch29 to 32 . 31-	SPB.I -		S077	021SS-38	9	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	080	
128	SPIRE PMW Ch29 to 32 . 31gnd	SPB.I -		S077	021SS-38	9		HSSVMCB1	27	312100 J03	128	3.
070	SPIRE PMW Ch29 to 32 . 32+	SPB.I -		S077	021SS-38	9	PMW-C2	HSSVMCB1	27	312100 J03	070	
081	SPIRE PMW Ch29 to 32 . 32-	SPB.I -		S077	021SS-38	9	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	081	
128	SPIRE PMW Ch29 to 32 . 32gnd	SPB.I -		S077	021SS-38	9		HSSVMCB1	27	312100 J03	128	3.
023	SPIRE PMW Ch33 to 35 . 33+	SPB.I -		S078	021SS-38	10	PMW-B1	HSSVMCB1	27	312100 J03	023	
034	SPIRE PMW Ch33 to 35 . 33-	SPB.I -		S078	021SS-38	10	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	034	
004	SPIRE PMW Ch33 to 35 . 33gnd	SPB.I -		S078	021SS-38	10		HSSVMCB1	27	312100 J03	004	3.
033	SPIRE PMW Ch33 to 35 . 34+	SPB.I -		S078	021SS-38	10	PMW-A1	HSSVMCB1	27	312100 J03	033	

# Pin Allocation List (Harness)

**Connector:** 211121 P22

**Item:** CVUUCR

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)

**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal	Pos.	Ch. ID	Wiring						
045	SPIRE PMW Ch33 to 35 . 34-	SPB.I	-	S078	021SS-38	10	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	045	3.
004	SPIRE PMW Ch33 to 35 . 34gnd	SPB.I	-	S078	021SS-38	10		HSSVMCB1	27	312100 J03	004	
044	SPIRE PMW Ch33 to 35 . 35+	SPB.I	-	S078	021SS-38	10	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	044	3.
056	SPIRE PMW Ch33 to 35 . 35-	SPB.I	-	S078	021SS-38	10		HSSVMCB1	27	312100 J03	056	
004	SPIRE PMW Ch33 to 35 . 35gnd	SPB.I	-	S078	021SS-38	10	HSSVMCB1	27	312100 J03	004		
022	SPIRE PMW Ch36 . 36+	SPB.-	-	S78A	12AXD-38	10	Daisy ch to Pin 47 (A3)	HSSVMCB1	27	312100 J03	022	3.
032	SPIRE PMW Ch36 . 36-	SPB.-	-	S78A	12AXD-38	10		HSSVMCB1	27	312100 J03	032	
004	SPIRE PMW Ch36 . 36gnd	SPB.-	-	S78A	12AXD-38	10		HSSVMCB1	27	312100 J03	004	
-	Faraday Link						Cable from P22 Faraday Shd con to Busbar tbc					
004	SPIRE PMW B04 GND Wire A4	SPX.-	-	S444	010B0-30		Con to Cable from P21 GND/Shds	HSSVMCB1	27	312100 J03	004	
013	SPIRE PMW Ch37 to 40 . 37+	SPB.-	-	S083	12AXD-38	12	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J03	013	3.
012	SPIRE PMW Ch37 to 40 . 37-	SPB.-	-	S083	12AXD-38	12		HSSVMCB1	27	312100 J03	012	
004	SPIRE PMW Ch37 to 40 . 37gnd	SPB.-	-	S083	12AXD-38	12		HSSVMCB1	27	312100 J03	004	
021	SPIRE PMW Ch37 to 40 . 38+	SPB.-	-	S083	12AXD-38	12	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J03	021	3.
020	SPIRE PMW Ch37 to 40 . 38-	SPB.-	-	S083	12AXD-38	12		HSSVMCB1	27	312100 J03	020	
004	SPIRE PMW Ch37 to 40 . 38gnd	SPB.-	-	S083	12AXD-38	12		HSSVMCB1	27	312100 J03	004	
031	SPIRE PMW Ch37 to 40 . 39+	SPB.-	-	S083	12AXD-38	12	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J03	031	3.
043	SPIRE PMW Ch37 to 40 . 39-	SPB.-	-	S083	12AXD-38	12		HSSVMCB1	27	312100 J03	043	
004	SPIRE PMW Ch37 to 40 . 39gnd	SPB.-	-	S083	12AXD-38	12		HSSVMCB1	27	312100 J03	004	
042	SPIRE PMW Ch37 to 40 . 40+	SPB.-	-	S083	12AXD-38	12	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J03	042	3.
054	SPIRE PMW Ch37 to 40 . 40-	SPB.-	-	S083	12AXD-38	12		HSSVMCB1	27	312100 J03	054	
004	SPIRE PMW Ch37 to 40 . 40gnd	SPB.-	-	S083	12AXD-38	12		HSSVMCB1	27	312100 J03	004	
010	SPIRE PMW Ch41 to 44 . 41+	SPB.I	-	S081	021SS-38	13	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J03	010	3.
011	SPIRE PMW Ch41 to 44 . 41-	SPB.I	-	S081	021SS-38	13		HSSVMCB1	27	312100 J03	011	
004	SPIRE PMW Ch41 to 44 . 41gnd	SPB.I	-	S081	021SS-38	13		HSSVMCB1	27	312100 J03	004	

# Pin Allocation List (Harness)

**Connector:** 211121 P22

**Item:** CVVUCR

**EMC-Category:** 2I/Sig H fr CVVFT to SVMCB

**Function:** UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
019	SPIRE PMW Ch41 to 44 . 42+	SPB.I -		S081	021SS-38	13	PMW-B5		HSSVMCB1	27	312100 J03	019	
029	SPIRE PMW Ch41 to 44 . 42-	SPB.I -		S081	021SS-38	13			HSSVMCB1	27	312100 J03	029	
004	SPIRE PMW Ch41 to 44 . 42gnd	SPB.I -		S081	021SS-38	13	Daisy ch to Pin 004 (A4)		HSSVMCB1	27	312100 J03	004	
041	SPIRE PMW Ch41 to 44 . 43+	SPB.I -		S081	021SS-38	13	PMW-C6		HSSVMCB1	27	312100 J03	041	
030	SPIRE PMW Ch41 to 44 . 43-	SPB.I -		S081	021SS-38	13			HSSVMCB1	27	312100 J03	030	
004	SPIRE PMW Ch41 to 44 . 43gnd	SPB.I -		S081	021SS-38	13	Daisy ch to Pin 004 (A4)		HSSVMCB1	27	312100 J03	004	
053	SPIRE PMW Ch41 to 44 . 44+	SPB.I -		S081	021SS-38	13	PMW-D6		HSSVMCB1	27	312100 J03	053	
052	SPIRE PMW Ch41 to 44 . 44-	SPB.I -		S081	021SS-38	13			HSSVMCB1	27	312100 J03	052	
004	SPIRE PMW Ch41 to 44 . 44gnd	SPB.I -		S081	021SS-38	13	Daisy ch to Pin 004 (A4)		HSSVMCB1	27	312100 J03	004	
009	SPIRE PMW Ch45 to 48 . 45+	SPB.I -		S082	021SS-38	14	PMW-B4		HSSVMCB1	27	312100 J03	009	
017	SPIRE PMW Ch45 to 48 . 45-	SPB.I -		S082	021SS-38	14			HSSVMCB1	27	312100 J03	017	
004	SPIRE PMW Ch45 to 48 . 45gnd	SPB.I -		S082	021SS-38	14	Daisy ch to Pin 004 (A4)		HSSVMCB1	27	312100 J03	004	
018	SPIRE PMW Ch45 to 48 . 46+	SPB.I -		S082	021SS-38	14	PMW-C5		HSSVMCB1	27	312100 J03	018	
028	SPIRE PMW Ch45 to 48 . 46-	SPB.I -		S082	021SS-38	14			HSSVMCB1	27	312100 J03	028	
004	SPIRE PMW Ch45 to 48 . 46gnd	SPB.I -		S082	021SS-38	14	Daisy ch to Pin 004 (A4)		HSSVMCB1	27	312100 J03	004	
016	SPIRE PMW Ch45 to 48 . 47+	SPB.I -		S082	021SS-38	14	PMW-D4		HSSVMCB1	27	312100 J03	016	
027	SPIRE PMW Ch45 to 48 . 47-	SPB.I -		S082	021SS-38	14			HSSVMCB1	27	312100 J03	027	
004	SPIRE PMW Ch45 to 48 . 47gnd	SPB.I -		S082	021SS-38	14	Daisy ch to Pin 004 (A4)		HSSVMCB1	27	312100 J03	004	
040	SPIRE PMW Ch45 to 48 . 48+	SPB.I -		S082	021SS-38	14	PMW-A4		HSSVMCB1	27	312100 J03	040	
039	SPIRE PMW Ch45 to 48 . 48-	SPB.I -		S082	021SS-38	14			HSSVMCB1	27	312100 J03	039	
004	SPIRE PMW Ch45 to 48 . 48gnd	SPB.I -		S082	021SS-38	14	Daisy ch to Pin 004 (A4)		HSSVMCB1	27	312100 J03	004	
-	Faraday Link						Cable from P21 Faraday Shd con to Busbar tbc						
001	Faraday Pins						Connected to Busbar ECR 0039 tbc						
002	Faraday Pins						Connected to Busbar ECR 0039 tbc						
003	Faraday Pins						Connected to Busbar ECR 0039 tbc						

# Pin Allocation List (Harness)

Connector: 211121 P22

Item: CWUCR

EMC-Category: 2/Sig H fr CWVFT to SVMCB

Function: UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)  
Location: 33 / CVV I/F CB Top PFM (CWUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
005	Faraday Pins					Conected to Busbar ECR 0039 tbc					
006	Faraday Pins					Conected to Busbar ECR 0039 tbc					
007	Faraday Pins					Conected to Busbar ECR 0039 tbc					
008	Faraday Pins					Conected to Busbar ECR 0039 tbc					
014	Faraday Pins					Conected to Busbar ECR 0039 tbc					
015	Faraday Pins					Conected to Busbar ECR 0039 tbc					
024	Faraday Pins					Conected to Busbar ECR 0039 tbc					
025	Faraday Pins					Conected to Busbar ECR 0039 tbc					
035	Faraday Pins					Conected to Busbar ECR 0039 tbc					
082	Faraday Pins					Conected to Busbar ECR 0039 tbc					
093	Faraday Pins					Conected to Busbar ECR 0039 tbc					
094	Faraday Pins					Conected to Busbar ECR 0039 tbc					
104	Faraday Pins					Conected to Busbar ECR 0039 tbc					
105	Faraday Pins					Conected to Busbar ECR 0039 tbc					
114	Faraday Pins					Conected to Busbar ECR 0039 tbc					
115	Faraday Pins					Conected to Busbar ECR 0039 tbc					
121	Faraday Pins					Conected to Busbar ECR 0039 tbc					
122	Faraday Pins					Conected to Busbar ECR 0039 tbc					
123	Faraday Pins					Conected to Busbar ECR 0039 tbc					
124	Faraday Pins					Conected to Busbar ECR 0039 tbc					

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

Connector: 211121 P22

Item: CVVUCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
125	Faraday Pins							Connected to Busbar ECR 0039 tbc					
126	Faraday Pins							Connected to Busbar ECR 0039 tbc					
127	Faraday Pins							Connected to Busbar ECR 0039 tbc					
-	CH Connector Housing							CH isolated from Faraday Shd No Overall Shd at Junction side					

to inner Shield





# Pin Allocation List (Harness)

Connector: 211121 P23

Item: CVUUCR

EMC-Category: 2/Sig H fr CVWFT to SVMCB

Function: UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
036	SPIRE PMW B05 GND WIRE A1	SPX.-	-	S451	010B0-30			Con to Cable from P17 GND/Shds	HSSVMCB1	27	312100 J02	036	
026	SPIRE PMW Ch01-04 . 1+	SPB.I	-	S085	021SS-38	1		PMW-A13	HSSVMCB1	27	312100 J02	026	
037	SPIRE PMW Ch01-04 . 1-	SPB.I	-	S085	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	037	
036	SPIRE PMW Ch01-04 . 1gnd	SPB.I	-	S085	021SS-38	1			HSSVMCB1	27	312100 J02	036	
038	SPIRE PMW Ch01-04 . 2+	SPB.I	-	S085	021SS-38	1		PMW-T1	HSSVMCB1	27	312100 J02	038	
049	SPIRE PMW Ch01-04 . 2-	SPB.I	-	S085	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	049	
036	SPIRE PMW Ch01-04 . 2gnd	SPB.I	-	S085	021SS-38	1			HSSVMCB1	27	312100 J02	036	
048	SPIRE PMW Ch01-04 . 3+	SPB.I	-	S085	021SS-38	1		PMW-B12	HSSVMCB1	27	312100 J02	048	
060	SPIRE PMW Ch01-04 . 3-	SPB.I	-	S085	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	060	
036	SPIRE PMW Ch01-04 . 3gnd	SPB.I	-	S085	021SS-38	1			HSSVMCB1	27	312100 J02	036	
059	SPIRE PMW Ch01-04 . 4+	SPB.I	-	S085	021SS-38	1		PMW-C13	HSSVMCB1	27	312100 J02	059	
071	SPIRE PMW Ch01-04 . 4-	SPB.I	-	S085	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	071	
036	SPIRE PMW Ch01-04 . 4gnd	SPB.I	-	S085	021SS-38	1			HSSVMCB1	27	312100 J02	036	
050	SPIRE PMW Ch05-08 . 5+	SPB.I	-	S086	021SS-38	2		PMW-A12	HSSVMCB1	27	312100 J02	050	
061	SPIRE PMW Ch05-08 . 5-	SPB.I	-	S086	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	061	
036	SPIRE PMW Ch05-08 . 5gnd	SPB.I	-	S086	021SS-38	2			HSSVMCB1	27	312100 J02	036	
062	SPIRE PMW Ch05-08 . 6+	SPB.I	-	S086	021SS-38	2		PMW-D12	HSSVMCB1	27	312100 J02	062	
051	SPIRE PMW Ch05-08 . 6-	SPB.I	-	S086	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	051	
036	SPIRE PMW Ch05-08 . 6gnd	SPB.I	-	S086	021SS-38	2			HSSVMCB1	27	312100 J02	036	
063	SPIRE PMW Ch05-08 . 7+	SPB.I	-	S086	021SS-38	2		PMW-C12	HSSVMCB1	27	312100 J02	063	
075	SPIRE PMW Ch05-08 . 7-	SPB.I	-	S086	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	075	
036	SPIRE PMW Ch05-08 . 7gnd	SPB.I	-	S086	021SS-38	2			HSSVMCB1	27	312100 J02	036	
074	SPIRE PMW Ch05-08 . 8+	SPB.I	-	S086	021SS-38	2		PMW-B11	HSSVMCB1	27	312100 J02	074	
073	SPIRE PMW Ch05-08 . 8-	SPB.I	-	S086	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	073	
036	SPIRE PMW Ch05-08 . 8gnd	SPB.I	-	S086	021SS-38	2			HSSVMCB1	27	312100 J02	036	
083	SPIRE PMW Ch09-12 . 9+	SPB.I	-	S087	021SS-38	3		PMW-A11	HSSVMCB1	27	312100 J02	083	
072	SPIRE PMW Ch09-12 . 9-	SPB.I	-	S087	021SS-38	3			HSSVMCB1	27	312100 J02	072	

# Pin Allocation List (Harness)

**Connector:** 211121 P23

**Item:** CVUUCR

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)

**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
036	SPIRE PMW Ch09-12 . 9gnd	SPB.I	-	S087	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	036	
095	SPIRE PMW Ch09-12 . 10+	SPB.I	-	S087	021SS-38	3		PMW-A13	HSSVMCB1	27	312100 J02	095	
084	SPIRE PMW Ch09-12 . 10-	SPB.I	-	S087	021SS-38	3			HSSVMCB1	27	312100 J02	084	
036	SPIRE PMW Ch09-12 . 10gnd	SPB.I	-	S087	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	036	
096	SPIRE PMW Ch09-12 . 11+	SPB.I	-	S087	021SS-38	3		PMW-D11	HSSVMCB1	27	312100 J02	096	
085	SPIRE PMW Ch09-12 . 11-	SPB.I	-	S087	021SS-38	3			HSSVMCB1	27	312100 J02	085	
036	SPIRE PMW Ch09-12 . 11gnd	SPB.I	-	S087	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	036	
106	SPIRE PMW Ch09-12 . 12+	SPB.I	-	S087	021SS-38	3		PMW-C11	HSSVMCB1	27	312100 J02	106	
107	SPIRE PMW Ch09-12 . 12-	SPB.I	-	S087	021SS-38	3			HSSVMCB1	27	312100 J02	107	
036	SPIRE PMW Ch09-12 . 12gnd	SPB.I	-	S087	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB1	27	312100 J02	036	
-	Faraday link							Cable P17 Faraday con to Busbar					
128	SPIRE PMW B05 GND WIRE A2	SPX.-	-	S452	010B0-30			Con to Cable from P18 GND/Shds	HSSVMCB1	27	312100 J02	128	
086	SPIRE PMW Ch13-16 . 13+	SPB.I	-	S090	021SS-38	4		PMW-B10	HSSVMCB1	27	312100 J02	086	
087	SPIRE PMW Ch13-16 . 13-	SPB.I	-	S090	021SS-38	4			HSSVMCB1	27	312100 J02	087	
036	SPIRE PMW Ch13-16 . 13gnd	SPB.I	-	S090	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	036	3.
097	SPIRE PMW Ch13-16 . 14+	SPB.I	-	S090	021SS-38	4		PMW-A10	HSSVMCB1	27	312100 J02	097	
098	SPIRE PMW Ch13-16 . 14-	SPB.I	-	S090	021SS-38	4			HSSVMCB1	27	312100 J02	098	
036	SPIRE PMW Ch13-16 . 14gnd	SPB.I	-	S090	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	036	3.
108	SPIRE PMW Ch13-16 . 15+	SPB.I	-	S090	021SS-38	4		PMW-D10	HSSVMCB1	27	312100 J02	108	
109	SPIRE PMW Ch13-16 . 15-	SPB.I	-	S090	021SS-38	4			HSSVMCB1	27	312100 J02	109	
036	SPIRE PMW Ch13-16 . 15gnd	SPB.I	-	S090	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	036	3.
116	SPIRE PMW Ch13-16 . 16+	SPB.I	-	S090	021SS-38	4		PMW-B9	HSSVMCB1	27	312100 J02	116	
117	SPIRE PMW Ch13-16 . 16-	SPB.I	-	S090	021SS-38	4			HSSVMCB1	27	312100 J02	117	
036	SPIRE PMW Ch13-16 . 16gnd	SPB.I	-	S090	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	036	3.
055	SPIRE PMW Ch17-20 . 17+	SPB.I	-	S091	021SS-38	5		PMW-C10	HSSVMCB1	27	312100 J02	055	

# Pin Allocation List (Harness)

**Connector:** 211121 P23  
**Item:** CWUOCR  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)  
**Location:** 33 / CVW I/F CB Top PFM (CWUOCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
066	SPIRE PMW Ch17-20 . 17-	SPB.I -			S091	021SS-38	5				Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	066	
128	SPIRE PMW Ch17-20 . 17gnd	SPB.I -			S091	021SS-38	5					HSSVMCB1	27	312100 J02	128	
067	SPIRE PMW Ch17-20 . 18+	SPB.I -			S091	021SS-38	5				PMW-C9	HSSVMCB1	27	312100 J02	067	
078	SPIRE PMW Ch17-20 . 18-	SPB.I -			S091	021SS-38	5					HSSVMCB1	27	312100 J02	078	
128	SPIRE PMW Ch17-20 . 18gnd	SPB.I -			S091	021SS-38	5				Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	128	
076	SPIRE PMW Ch17-20 . 19+	SPB.I -			S091	021SS-38	5				PMW-A9	HSSVMCB1	27	312100 J02	076	
077	SPIRE PMW Ch17-20 . 19-	SPB.I -			S091	021SS-38	5					HSSVMCB1	27	312100 J02	077	
128	SPIRE PMW Ch17-20 . 19gnd	SPB.I -			S091	021SS-38	5				Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	128	
088	SPIRE PMW Ch17-20 . 20+	SPB.I -			S091	021SS-38	5				PMW-B8	HSSVMCB1	27	312100 J02	088	
089	SPIRE PMW Ch17-20 . 20-	SPB.I -			S091	021SS-38	5					HSSVMCB1	27	312100 J02	089	
128	SPIRE PMW Ch17-20 . 20gnd	SPB.I -			S091	021SS-38	5				Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	128	
099	SPIRE PMW Ch21-24 . 21+	SPB.I -			S092	021SS-38	6				PMW-B8	HSSVMCB1	27	312100 J02	099	
100	SPIRE PMW Ch21-24 . 21-	SPB.I -			S092	021SS-38	6					HSSVMCB1	27	312100 J02	100	
128	SPIRE PMW Ch21-24 . 21gnd	SPB.I -			S092	021SS-38	6				Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	128	
110	SPIRE PMW Ch21-24 . 22+	SPB.I -			S092	021SS-38	6				PMW-D8	HSSVMCB1	27	312100 J02	110	
111	SPIRE PMW Ch21-24 . 22-	SPB.I -			S092	021SS-38	6					HSSVMCB1	27	312100 J02	111	
128	SPIRE PMW Ch21-24 . 22gnd	SPB.I -			S092	021SS-38	6				Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	128	
118	SPIRE PMW Ch21-24 . 23+	SPB.I -			S092	021SS-38	6				PMW-C8	HSSVMCB1	27	312100 J02	118	
119	SPIRE PMW Ch21-24 . 23-	SPB.I -			S092	021SS-38	6					HSSVMCB1	27	312100 J02	119	
128	SPIRE PMW Ch21-24 . 23gnd	SPB.I -			S092	021SS-38	6				Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	128	
112	SPIRE PMW Ch21-24 . 24+	SPB.I -			S092	021SS-38	6				PMW-B7	HSSVMCB1	27	312100 J02	112	
120	SPIRE PMW Ch21-24 . 24-	SPB.I -			S092	021SS-38	6					HSSVMCB1	27	312100 J02	120	
128	SPIRE PMW Ch21-24 . 24gnd	SPB.I -			S092	021SS-38	6				Daisy ch to Pin 128 (A2)	HSSVMCB1	27	312100 J02	128	
-	Faraday Link										Cable P18 Farady con to Busbar					
047	SPIRE PMW B05 GND WIRE A3	SPX.-			S453	010B0-30					Con to Cable from P19 GND/Shds	HSSVMCB1	27	312100 J02	047	

# Pin Allocation List (Harness)

**Connector:** 211121 P23

**Item:** CVVUCR

**EMC-Category:** 2I/Sig H fr CVVFT to SVMCB

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
090	SPIRE PMW Ch25-28 . 25+	SPB.I	-	S094	021SS-38	7		PMW-R1	HSSVMCB1	27	312100 J02	090	
079	SPIRE PMW Ch25-28 . 25-	SPB.I	-	S094	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	079	
128	SPIRE PMW Ch25-28 . 25grnd	SPB.I	-	S094	021SS-38	7			HSSVMCB1	27	312100 J02	128	3.
102	SPIRE PMW Ch25-28 . 26+	SPB.I	-	S094	021SS-38	7			PMW-G1	HSSVMCB1	27	312100 J02	102
101	SPIRE PMW Ch25-28 . 26-	SPB.I	-	S094	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	101	
128	SPIRE PMW Ch25-28 . 26grnd	SPB.I	-	S094	021SS-38	7			HSSVMCB1	27	312100 J02	128	3.
092	SPIRE PMW Ch25-28 . 27+	SPB.I	-	S094	021SS-38	7			PMW-T2	HSSVMCB1	27	312100 J02	092
091	SPIRE PMW Ch25-28 . 27-	SPB.I	-	S094	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	091	
128	SPIRE PMW Ch25-28 . 27grnd	SPB.I	-	S094	021SS-38	7			HSSVMCB1	27	312100 J02	128	3.
103	SPIRE PMW Ch25-28 . 28+	SPB.I	-	S094	021SS-38	7			PMW-E1	HSSVMCB1	27	312100 J02	103
113	SPIRE PMW Ch25-28 . 28-	SPB.I	-	S094	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	113	
128	SPIRE PMW Ch25-28 . 28grnd	SPB.I	-	S094	021SS-38	7			HSSVMCB1	27	312100 J02	128	3.
058	SPIRE PMW Ch29-32 . 29+	SPB.I	-	S095	021SS-38	8			PMW-D1	HSSVMCB1	27	312100 J02	058
046	SPIRE PMW Ch29-32 . 29-	SPB.I	-	S095	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	046	
128	SPIRE PMW Ch29-32 . 29grnd	SPB.I	-	S095	021SS-38	8			HSSVMCB1	27	312100 J02	128	3.
068	SPIRE PMW Ch29-32 . 30+	SPB.I	-	S095	021SS-38	8			PMW-F1	HSSVMCB1	27	312100 J02	068
057	SPIRE PMW Ch29-32 . 30-	SPB.I	-	S095	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	057	
128	SPIRE PMW Ch29-32 . 30grnd	SPB.I	-	S095	021SS-38	8			HSSVMCB1	27	312100 J02	128	3.
069	SPIRE PMW Ch29-32 . 31+	SPB.I	-	S095	021SS-38	8			PMW-E2	HSSVMCB1	27	312100 J02	069
080	SPIRE PMW Ch29-32 . 31-	SPB.I	-	S095	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	080	
128	SPIRE PMW Ch29-32 . 31grnd	SPB.I	-	S095	021SS-38	8			HSSVMCB1	27	312100 J02	128	3.
070	SPIRE PMW Ch29-32 . 32+	SPB.I	-	S095	021SS-38	8			PMW-G2	HSSVMCB1	27	312100 J02	070
081	SPIRE PMW Ch29-32 . 32-	SPB.I	-	S095	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	081	
128	SPIRE PMW Ch29-32 . 32grnd	SPB.I	-	S095	021SS-38	8			HSSVMCB1	27	312100 J02	128	3.
023	SPIRE PMW Ch33-36 . 33+	SPB.I	-	S096	021SS-38	9			PMW-F2	HSSVMCB1	27	312100 J02	023
034	SPIRE PMW Ch33-36 . 33-	SPB.I	-	S096	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	034	
004	SPIRE PMW Ch33-36 . 33grnd	SPB.I	-	S096	021SS-38	9			HSSVMCB1	27	312100 J02	004	3.
033	SPIRE PMW Ch33-36 . 34+	SPB.I	-	S096	021SS-38	9			PMW-G3	HSSVMCB1	27	312100 J02	033

# Pin Allocation List (Harness)

**Connector:** 211121 P23  
**Item:** CVWUCR

**Function:** UFThr 199.2° (SPIRE XS-05JFP17, 18, 19, 20)  
**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
045	SPIRE PMW Ch33-36 . 34-	SPB.I	-	S096	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	045	
004	SPIRE PMW Ch33-36 . 34gnd	SPB.I	-	S096	021SS-38	9			HSSVMCB1	27	312100 J02	004	3.
044	SPIRE PMW Ch33-36 . 35+	SPB.I	-	S096	021SS-38	9		PMW-E3	HSSVMCB1	27	312100 J02	044	
056	SPIRE PMW Ch33-36 . 35-	SPB.I	-	S096	021SS-38	9			HSSVMCB1	27	312100 J02	056	
004	SPIRE PMW Ch33-36 . 35gnd	SPB.I	-	S096	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	004	3.
022	SPIRE PMW Ch33-36 . 36+	SPB.I	-	S096	021SS-38	9		PMW-D3	HSSVMCB1	27	312100 J02	022	
032	SPIRE PMW Ch33-36 . 36-	SPB.I	-	S096	021SS-38	9			HSSVMCB1	27	312100 J02	032	
004	SPIRE PMW Ch33-36 . 36gnd	SPB.I	-	S096	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB1	27	312100 J02	004	3.
-	Faraday Link							Cable P19 Farady con to Busbar					
004	SPIRE PMW B05 GND WIRE A4	SPX.-	-	S454	010B0-30			Con to Cable from P20 GND/Shds	HSSVMCB1	27	312100 J02	004	
013	SPIRE PMW Ch37-40 . 37+	SPB.I	-	S099	021SS-38	10		PMW-F3	HSSVMCB1	27	312100 J02	013	
012	SPIRE PMW Ch37-40 . 37-	SPB.I	-	S099	021SS-38	10			HSSVMCB1	27	312100 J02	012	
004	SPIRE PMW Ch37-40 . 37gnd	SPB.I	-	S099	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	004	
021	SPIRE PMW Ch37-40 . 38+	SPB.I	-	S099	021SS-38	10		PMW-G4	HSSVMCB1	27	312100 J02	021	
020	SPIRE PMW Ch37-40 . 38-	SPB.I	-	S099	021SS-38	10			HSSVMCB1	27	312100 J02	020	
004	SPIRE PMW Ch37-40 . 38gnd	SPB.I	-	S099	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	004	
031	SPIRE PMW Ch37-40 . 39+	SPB.I	-	S099	021SS-38	10		PMW-E4	HSSVMCB1	27	312100 J02	031	
043	SPIRE PMW Ch37-40 . 39-	SPB.I	-	S099	021SS-38	10			HSSVMCB1	27	312100 J02	043	
004	SPIRE PMW Ch37-40 . 39gnd	SPB.I	-	S099	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	004	
042	SPIRE PMW Ch37-40 . 40+	SPB.I	-	S099	021SS-38	10		PMW-F4	HSSVMCB1	27	312100 J02	042	
054	SPIRE PMW Ch37-40 . 40-	SPB.I	-	S099	021SS-38	10			HSSVMCB1	27	312100 J02	054	
004	SPIRE PMW Ch37-40 . 40gnd	SPB.I	-	S099	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	004	
010	SPIRE PMW Ch41-44 . 41+	SPB.I	-	S100	021SS-38	11		PMW-E5	HSSVMCB1	27	312100 J02	010	
011	SPIRE PMW Ch41-44 . 41-	SPB.I	-	S100	021SS-38	11			HSSVMCB1	27	312100 J02	011	
004	SPIRE PMW Ch41-44 . 41gnd	SPB.I	-	S100	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	004	
019	SPIRE PMW Ch41-44 . 42+	SPB.I	-	S100	021SS-38	11		PMW-D5	HSSVMCB1	27	312100 J02	019	

# Pin Allocation List (Harness)

**Connector:** 211121 P23

**Item:** CVVUCR

**EMC-Category:** 2l/Sig H fr CVVFT to SVMCB

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.	Ch. ID	Wiring	Std						
029	SPIRE PMW Ch41-44 . 42-	SPB.I -	-	S100	021SS-38	11	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	029	
004	SPIRE PMW Ch41-44 . 42gnd	SPB.I -	-	S100	021SS-38	11						
041	SPIRE PMW Ch41-44 . 43+	SPB.I -	-	S100	021SS-38	11	PMW-F5	HSSVMCB1	27	312100 J02	041	
030	SPIRE PMW Ch41-44 . 43-	SPB.I -	-	S100	021SS-38	11	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	030	
004	SPIRE PMW Ch41-44 . 43gnd	SPB.I -	-	S100	021SS-38	11						
053	SPIRE PMW Ch41-44 . 44+	SPB.I -	-	S100	021SS-38	11	PMW-G5	HSSVMCB1	27	312100 J02	053	
052	SPIRE PMW Ch41-44 . 44-	SPB.I -	-	S100	021SS-38	11	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	052	
004	SPIRE PMW Ch41-44 . 44gnd	SPB.I -	-	S100	021SS-38	11						
009	SPIRE PMW Ch45-48 . 45+	SPB.I -	-	S101	021SS-38	12	PMW-E6	HSSVMCB1	27	312100 J02	009	
017	SPIRE PMW Ch45-48 . 45-	SPB.I -	-	S101	021SS-38	12	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	017	
004	SPIRE PMW Ch45-48 . 45gnd	SPB.I -	-	S101	021SS-38	12						
018	SPIRE PMW Ch45-48 . 46+	SPB.I -	-	S101	021SS-38	12	PMW-G6	HSSVMCB1	27	312100 J02	018	
028	SPIRE PMW Ch45-48 . 46-	SPB.I -	-	S101	021SS-38	12	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	028	
004	SPIRE PMW Ch45-48 . 46gnd	SPB.I -	-	S101	021SS-38	12						
016	SPIRE PMW Ch45-48 . 47+	SPB.I -	-	S101	021SS-38	12	PMW-F6	HSSVMCB1	27	312100 J02	016	
027	SPIRE PMW Ch45-48 . 47-	SPB.I -	-	S101	021SS-38	12	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	027	
004	SPIRE PMW Ch45-48 . 47gnd	SPB.I -	-	S101	021SS-38	12						
040	SPIRE PMW Ch45-48 . 48+	SPB.I -	-	S101	021SS-38	12	PMW-G7	HSSVMCB1	27	312100 J02	040	
039	SPIRE PMW Ch45-48 . 48-	SPB.I -	-	S101	021SS-38	12	Daisy ch to Pin 004 (A4)	HSSVMCB1	27	312100 J02	039	
004	SPIRE PMW Ch45-48 . 48gnd	SPB.I -	-	S101	021SS-38	12						
-	Faraday Link						Cable P20 Farady con to Busbar					
001	Faraday Pins						Connected to Busbar ECR0039tbc					
002	Faraday Pins						Connected to Busbar ECR0039tbc					
003	Faraday Pins						Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 211121 P23

Item: CVVUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
005	Faraday Pins							Connected to Busbar ECR0039tbc					
006	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					
015	Faraday Pins							Connected to Busbar ECR0039tbc					
024	Faraday Pins							Connected to Busbar ECR0039tbc					
025	Faraday Pins							Connected to Busbar ECR0039tbc					
035	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
093	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
104	Faraday Pins							Connected to Busbar ECR0039tbc					
105	Faraday Pins							Connected to Busbar ECR0039tbc					
114	Faraday Pins							Connected to Busbar ECR0039tbc					
115	Faraday Pins							Connected to Busbar ECR0039tbc					
121	Faraday Pins							Connected to Busbar ECR0039tbc					
122	Faraday Pins							Connected to Busbar ECR0039tbc					
123	Faraday Pins							Connected to Busbar ECR0039tbc					
124	Faraday Pins							Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

**Connector:** 211121 P23

**Item:** CVVUCR

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	Connector Housing							CH isolated from Farady					
-	Insulating Jacket							Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd (imvty)							Bundle Overall Shd con to Backshell					





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**Project: HERSCHEL**

*For wiring schematic  
 see S14-15-05 CVVUCR P23*

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-1 (of 8)

**Connector:** 211121 P24  
**Item:** CVVUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)  
**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PLW B06 GND WIRE A1	SPX	-	S461	010B0-30			Con to Cable from P13 GND/Shds	HSSVMCB2	27	312200 J03	036	
026	SPIRE PLW Ch01-04 . 1+	SPA.I	-	S104	021SS-38	1		PLW-R1	HSSVMCB2	27	312200 J03	026	
037	SPIRE PLW Ch01-04 . 1-	SPA.I	-	S104	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	037	
036	SPIRE PLW Ch01-04 . 1gnd	SPA.I	-	S104	021SS-38	1			HSSVMCB2	27	312200 J03	036	
038	SPIRE PLW Ch01-04 . 2+	SPA.I	-	S104	021SS-38	1		PLW-A8	HSSVMCB2	27	312200 J03	038	
049	SPIRE PLW Ch01-04 . 2-	SPA.I	-	S104	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	049	
036	SPIRE PLW Ch01-04 . 2gnd	SPA.I	-	S104	021SS-38	1			HSSVMCB2	27	312200 J03	036	
048	SPIRE PLW Ch01-04 . 3+	SPA.I	-	S104	021SS-38	1		PLW-A7	HSSVMCB2	27	312200 J03	048	
060	SPIRE PLW Ch01-04 . 3-	SPA.I	-	S104	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	060	
036	SPIRE PLW Ch01-04 . 3gnd	SPA.I	-	S104	021SS-38	1			HSSVMCB2	27	312200 J03	036	
059	SPIRE PLW Ch01-04 . 4+	SPA.I	-	S104	021SS-38	1		PLW-A6	HSSVMCB2	27	312200 J03	059	
071	SPIRE PLW Ch01-04 . 4-	SPA.I	-	S104	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	071	
036	SPIRE PLW Ch01-04 . 4gnd	SPA.I	-	S104	021SS-38	1			HSSVMCB2	27	312200 J03	036	
050	SPIRE PLW Ch05-08 . 5+	SPA.I	-	S105	021SS-38	2		PLW-A9	HSSVMCB2	27	312200 J03	050	
061	SPIRE PLW Ch05-08 . 5-	SPA.I	-	S105	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	061	
036	SPIRE PLW Ch05-08 . 5gnd	SPA.I	-	S105	021SS-38	2			HSSVMCB2	27	312200 J03	036	
062	SPIRE PLW Ch05-08 . 6+	SPA.I	-	S105	021SS-38	2		PLW-C9	HSSVMCB2	27	312200 J03	062	
051	SPIRE PLW Ch05-08 . 6-	SPA.I	-	S105	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	051	
036	SPIRE PLW Ch05-08 . 6gnd	SPA.I	-	S105	021SS-38	2			HSSVMCB2	27	312200 J03	036	
063	SPIRE PLW Ch05-08 . 7+	SPA.I	-	S105	021SS-38	2		PLW-B8	HSSVMCB2	27	312200 J03	063	
075	SPIRE PLW Ch05-08 . 7-	SPA.I	-	S105	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	075	
036	SPIRE PLW Ch05-08 . 7gnd	SPA.I	-	S105	021SS-38	2			HSSVMCB2	27	312200 J03	036	
074	SPIRE PLW Ch05-08 . 8+	SPA.I	-	S105	021SS-38	2		PLW-B7	HSSVMCB2	27	312200 J03	074	
073	SPIRE PLW Ch05-08 . 8-	SPA.I	-	S105	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	073	
036	SPIRE PLW Ch05-08 . 8gnd	SPA.I	-	S105	021SS-38	2			HSSVMCB2	27	312200 J03	036	
083	SPIRE PLW Ch09-12 . 9+	SPA.I	-	S106	021SS-38	3		PLW-C7	HSSVMCB2	27	312200 J03	083	
072	SPIRE PLW Ch09-12 . 9-	SPA.I	-	S106	021SS-38	3			HSSVMCB2	27	312200 J03	072	

# Pin Allocation List (Harness)

**Connector:** 211121 P24  
**Item:** CWWUCR  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)  
**Location:** 33 / CVV I/F CB Top PFM (CWWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
036	SPIRE PLW Ch09-12 . 9gnd	SPA.I	-	S106	021SS-38	3			Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	036	
095	SPIRE PLW Ch09-12 . 10+	SPA.I	-	S106	021SS-38	3			PLW-B5	HSSVMCB2	27	312200 J03	095	
084	SPIRE PLW Ch09-12 . 10-	SPA.I	-	S106	021SS-38	3				HSSVMCB2	27	312200 J03	084	
036	SPIRE PLW Ch09-12 . 10gnd	SPA.I	-	S106	021SS-38	3			Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	036	
096	SPIRE PLW Ch09-12 . 11+	SPA.I	-	S106	021SS-38	3			PLW-B6	HSSVMCB2	27	312200 J03	096	
085	SPIRE PLW Ch09-12 . 11-	SPA.I	-	S106	021SS-38	3				HSSVMCB2	27	312200 J03	085	
036	SPIRE PLW Ch09-12 . 11gnd	SPA.I	-	S106	021SS-38	3			Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	036	
106	SPIRE PLW Ch09-12 . 12+	SPA.I	-	S106	021SS-38	3			PLW-A5	HSSVMCB2	27	312200 J03	106	
107	SPIRE PLW Ch09-12 . 12-	SPA.I	-	S106	021SS-38	3				HSSVMCB2	27	312200 J03	107	
036	SPIRE PLW Ch09-12 . 12gnd	SPA.I	-	S106	021SS-38	3			Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J03	036	
-	Faraday link								Cable P13 Faraday Shd con to Busbar tbc					
128	SPIRE PMW B06 GND WIRE A2	SPX.-	-	S462	010B0-30				Con to Cable from P13 GND/Shds	HSSVMCB2	27	312200 J03	128	
086	SPIRE PLW Ch13-16 . 13+	SPA.I	-	S109	021SS-38	4			PLW-T1	HSSVMCB2	27	312200 J03	086	
087	SPIRE PLW Ch13-16 . 13-	SPA.I	-	S109	021SS-38	4				HSSVMCB2	27	312200 J03	087	
036	SPIRE PLW Ch13-16 . 13gnd	SPA.I	-	S109	021SS-38	4			Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	036	3.
097	SPIRE PLW Ch13-16 . 14+	SPA.I	-	S109	021SS-38	4			PLW-B4	HSSVMCB2	27	312200 J03	097	
098	SPIRE PLW Ch13-16 . 14-	SPA.I	-	S109	021SS-38	4				HSSVMCB2	27	312200 J03	098	
036	SPIRE PLW Ch13-16 . 14gnd	SPA.I	-	S109	021SS-38	4			Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	036	3.
108	SPIRE PLW Ch13-16 . 15+	SPA.I	-	S109	021SS-38	4			PLW-C4	HSSVMCB2	27	312200 J03	108	
109	SPIRE PLW Ch13-16 . 15-	SPA.I	-	S109	021SS-38	4				HSSVMCB2	27	312200 J03	109	
036	SPIRE PLW Ch13-16 . 15gnd	SPA.I	-	S109	021SS-38	4			Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	036	3.
116	SPIRE PLW Ch13-16 . 16+	SPA.I	-	S109	021SS-38	4			PLW-B3	HSSVMCB2	27	312200 J03	116	
117	SPIRE PLW Ch13-16 . 16-	SPA.I	-	S109	021SS-38	4				HSSVMCB2	27	312200 J03	117	
036	SPIRE PLW Ch13-16 . 16gnd	SPA.I	-	S109	021SS-38	4			Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	036	3.
055	SPIRE PLW Ch17-20 . 17+	SPA.I	-	S110	021SS-38	5			PLW-C2	HSSVMCB2	27	312200 J03	055	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 8)

Connector: 211121 P24

Item: CVVUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Snd	Cable Twist						
066	SPIRE PLW Ch17-20 . 17-	SPA.I	-	S110	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	066	
128	SPIRE PLW Ch17-20 . 17gnd	SPA.I	-	S110	021SS-38	5			HSSVMCB2	27	312200 J03	128	
067	SPIRE PLW Ch17-20 . 18+	SPA.I	-	S110	021SS-38	5		PLW-B2	HSSVMCB2	27	312200 J03	067	
078	SPIRE PLW Ch17-20 . 18-	SPA.I	-	S110	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	078	
128	SPIRE PLW Ch17-20 . 18gnd	SPA.I	-	S110	021SS-38	5			HSSVMCB2	27	312200 J03	128	
076	SPIRE PLW Ch17-20 . 19+	SPA.I	-	S110	021SS-38	5		PLW-B1	HSSVMCB2	27	312200 J03	076	
077	SPIRE PLW Ch17-20 . 19-	SPA.I	-	S110	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	077	
128	SPIRE PLW Ch17-20 . 19gnd	SPA.I	-	S110	021SS-38	5			HSSVMCB2	27	312200 J03	128	
088	SPIRE PLW Ch17-20 . 20+	SPA.I	-	S110	021SS-38	5		PLW-A3	HSSVMCB2	27	312200 J03	088	
089	SPIRE PLW Ch17-20 . 20-	SPA.I	-	S110	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	089	
128	SPIRE PLW Ch17-20 . 20gnd	SPA.I	-	S110	021SS-38	5			HSSVMCB2	27	312200 J03	128	
099	SPIRE PLW Ch21-24 . 21+	SPA.I	-	S111	021SS-38	6		PLW-A4	HSSVMCB2	27	312200 J03	099	
100	SPIRE PLW Ch21-24 . 21-	SPA.I	-	S111	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	100	
128	SPIRE PLW Ch21-24 . 21gnd	SPA.I	-	S111	021SS-38	6			HSSVMCB2	27	312200 J03	128	
110	SPIRE PLW Ch21-24 . 22+	SPA.I	-	S111	021SS-38	6		PLW-A1	HSSVMCB2	27	312200 J03	110	
111	SPIRE PLW Ch21-24 . 22-	SPA.I	-	S111	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	111	
128	SPIRE PLW Ch21-24 . 22gnd	SPA.I	-	S111	021SS-38	6			HSSVMCB2	27	312200 J03	128	
118	SPIRE PLW Ch21-24 . 23+	SPA.I	-	S111	021SS-38	6		PLW-DK1	HSSVMCB2	27	312200 J03	118	
119	SPIRE PLW Ch21-24 . 23-	SPA.I	-	S111	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	119	
128	SPIRE PLW Ch21-24 . 23gnd	SPA.I	-	S111	021SS-38	6			HSSVMCB2	27	312200 J03	128	
112	SPIRE PLW Ch21-24 . 24+	SPA.I	-	S111	021SS-38	6		PLW-A2	HSSVMCB2	27	312200 J03	112	
120	SPIRE PLW Ch21-24 . 24-	SPA.I	-	S111	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J03	120	
128	SPIRE PLW Ch21-24 . 24gnd	SPA.I	-	S111	021SS-38	6			HSSVMCB2	27	312200 J03	128	
-	Faraday link							Cable P14 Faraday con to Busbar					
047	SPIRE PMW B06 GND WIRE A3	SPX.-	-	S463	010B0-30			Con to Cable from P15 GND/Shds	HSSVMCB2	27	312200 J03	047	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-4 (of 8)

**Connector:** 211121 P24  
**Item:** CVWUCR  
**EMC-Category:** 2/Sig H fr CVWFT to SVMCB

**Function:** UFThr 215.0° (SPIRE XS-06JFP13, 14, 15, 16)  
**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
090	SPIRE PLW Ch25-28 . 25+	SPA.I -		S113	021SS-38	7		PLW-E1	HSSVMCB2	27	312200 J03	090	
079	SPIRE PLW Ch25-28 . 25-	SPA.I -		S113	021SS-38	7			HSSVMCB2	27	312200 J03	079	
128	SPIRE PLW Ch25-28 . 25grnd	SPA.I -		S113	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	128	3. 3.
102	SPIRE PLW Ch25-28 . 26+	SPA.I -		S113	021SS-38	7		PLW-E2	HSSVMCB2	27	312200 J03	102	
101	SPIRE PLW Ch25-28 . 26-	SPA.I -		S113	021SS-38	7			HSSVMCB2	27	312200 J03	101	
128	SPIRE PLW Ch25-28 . 26grnd	SPA.I -		S113	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	128	3. 3.
092	SPIRE PLW Ch25-28 . 27+	SPA.I -		S113	021SS-38	7		PLW-E3	HSSVMCB2	27	312200 J03	092	
091	SPIRE PLW Ch25-28 . 27-	SPA.I -		S113	021SS-38	7			HSSVMCB2	27	312200 J03	091	
128	SPIRE PLW Ch25-28 . 27grnd	SPA.I -		S113	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	128	3. 3.
103	SPIRE PLW Ch25-28 . 28+	SPA.I -		S113	021SS-38	7		PLW-E4	HSSVMCB2	27	312200 J03	103	
113	SPIRE PLW Ch25-28 . 28-	SPA.I -		S113	021SS-38	7			HSSVMCB2	27	312200 J03	113	
128	SPIRE PLW Ch25-28 . 28grnd	SPA.I -		S113	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	128	3. 3.
058	SPIRE PLW Ch29-32 . 29+	SPA.I -		S114	021SS-38	8		PLW-D1	HSSVMCB2	27	312200 J03	058	
046	SPIRE PLW Ch29-32 . 29-	SPA.I -		S114	021SS-38	8			HSSVMCB2	27	312200 J03	046	
128	SPIRE PLW Ch29-32 . 29grnd	SPA.I -		S114	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	128	3. 3.
068	SPIRE PLW Ch29-32 . 30+	SPA.I -		S114	021SS-38	8		PLW-D2	HSSVMCB2	27	312200 J03	068	
057	SPIRE PLW Ch29-32 . 30-	SPA.I -		S114	021SS-38	8			HSSVMCB2	27	312200 J03	057	
128	SPIRE PLW Ch29-32 . 30grnd	SPA.I -		S114	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	128	3. 3.
069	SPIRE PLW Ch29-32 . 31+	SPA.I -		S114	021SS-38	8		PLW-D3	HSSVMCB2	27	312200 J03	069	
080	SPIRE PLW Ch29-32 . 31-	SPA.I -		S114	021SS-38	8			HSSVMCB2	27	312200 J03	080	
128	SPIRE PLW Ch29-32 . 31grnd	SPA.I -		S114	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	128	3. 3.
070	SPIRE PLW Ch29-32 . 32+	SPA.I -		S114	021SS-38	8		PLW-D4	HSSVMCB2	27	312200 J03	070	
081	SPIRE PLW Ch29-32 . 32-	SPA.I -		S114	021SS-38	8			HSSVMCB2	27	312200 J03	081	
128	SPIRE PLW Ch29-32 . 32grnd	SPA.I -		S114	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	128	3. 3.
023	SPIRE PLW Ch33-36 . 33+	SPA.I -		S115	021SS-38	9		PLW-C1	HSSVMCB2	27	312200 J03	023	
034	SPIRE PLW Ch33-36 . 33-	SPA.I -		S115	021SS-38	9			HSSVMCB2	27	312200 J03	034	
004	SPIRE PLW Ch33-36 . 33grnd	SPA.I -		S115	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	004	3. 3.
033	SPIRE PLW Ch33-36 . 34+	SPA.I -		S115	021SS-38	9		PLW-C3	HSSVMCB2	27	312200 J03	033	
045	SPIRE PLW Ch33-36 . 34-	SPA.I -		S115	021SS-38	9			HSSVMCB2	27	312200 J03	045	
004	SPIRE PLW Ch33-36 . 34grnd	SPA.I -		S115	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	004	3. 3.

# Pin Allocation List (Harness)

Project: **HERSCHEL**

**Connector:** 211121 P24  
**Item:** CVUUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)  
**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
044	SPIRE PLW Ch33-36 . 35+	SPA.J	-	S115	021SS-38	9		PLW-C5	HSSVMCB2	27	312200 J03	044	
056	SPIRE PLW Ch33-36 . 35-	SPA.J	-	S115	021SS-38	9			HSSVMCB2	27	312200 J03	056	
004	SPIRE PLW Ch33-36 . 35gnd	SPA.J	-	S115	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	004	3. 3.
022	SPIRE PLW Ch33-36 . 36+	SPA.J	-	S115	021SS-38	9		PLW-T2	HSSVMCB2	27	312200 J03	022	
032	SPIRE PLW Ch33-36 . 36-	SPA.J	-	S115	021SS-38	9			HSSVMCB2	27	312200 J03	032	
004	SPIRE PLW Ch33-36 . 36gnd	SPA.J	-	S115	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J03	004	3. 3.
-	Faraday Link							Cable P15 Faraday Shd con to Busbar tbc					
004	SPIRE PMW B06 GND WIRE A4	SPX.-	-	S464	010B0-30			Con to Cable from P13 GND/Shds	HSSVMCB2	27	312200 J03	004	
013	SPIRE PLW Ch37-40 . 37+	SPA.J	-	S118	021SS-38	10		PLW-E5	HSSVMCB2	27	312200 J03	013	
012	SPIRE PLW Ch37-40 . 37-	SPA.J	-	S118	021SS-38	10			HSSVMCB2	27	312200 J03	012	
004	SPIRE PLW Ch37-40 . 37gnd	SPA.J	-	S118	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
021	SPIRE PLW Ch37-40 . 38+	SPA.J	-	S118	021SS-38	10		PLW-C6	HSSVMCB2	27	312200 J03	021	
020	SPIRE PLW Ch37-40 . 38-	SPA.J	-	S118	021SS-38	10			HSSVMCB2	27	312200 J03	020	
004	SPIRE PLW Ch37-40 . 38gnd	SPA.J	-	S118	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
031	SPIRE PLW Ch37-40 . 39+	SPA.J	-	S118	021SS-38	10		PLW-C8	HSSVMCB2	27	312200 J03	031	
043	SPIRE PLW Ch37-40 . 39-	SPA.J	-	S118	021SS-38	10			HSSVMCB2	27	312200 J03	043	
004	SPIRE PLW Ch37-40 . 39gnd	SPA.J	-	S118	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
042	SPIRE PLW Ch37-40 . 40+	SPA.J	-	S118	021SS-38	10		PLW-D5	HSSVMCB2	27	312200 J03	042	
054	SPIRE PLW Ch37-40 . 40-	SPA.J	-	S118	021SS-38	10			HSSVMCB2	27	312200 J03	054	
004	SPIRE PLW Ch37-40 . 40gnd	SPA.J	-	S118	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
010	SPIRE PLW Ch41-44 . 41+	SPA.J	-	S119	021SS-38	11		PLW-D6	HSSVMCB2	27	312200 J03	010	
011	SPIRE PLW Ch41-44 . 41-	SPA.J	-	S119	021SS-38	11			HSSVMCB2	27	312200 J03	011	
004	SPIRE PLW Ch41-44 . 41gnd	SPA.J	-	S119	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
019	SPIRE PLW Ch41-44 . 42+	SPA.J	-	S119	021SS-38	11		PLW-D7	HSSVMCB2	27	312200 J03	019	
029	SPIRE PLW Ch41-44 . 42-	SPA.J	-	S119	021SS-38	11			HSSVMCB2	27	312200 J03	029	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-6 (of 8)

**Connector:** 211121 P24  
**Item:** CVUUCR  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)  
**Location:** 33 / CVV / IF CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
004	SPIRE PLW Ch41-44 . 42gnd	SPA.I	-	S119	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
041	SPIRE PLW Ch41-44 . 43+	SPA.I	-	S119	021SS-38	11		PLW-D8	HSSVMCB2	27	312200 J03	041	
030	SPIRE PLW Ch41-44 . 43-	SPA.I	-	S119	021SS-38	11			HSSVMCB2	27	312200 J03	030	
004	SPIRE PLW Ch41-44 . 43gnd	SPA.I	-	S119	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
053	SPIRE PLW Ch41-44 . 44+	SPA.I	-	S119	021SS-38	11		PLW-E7	HSSVMCB2	27	312200 J03	053	
052	SPIRE PLW Ch41-44 . 44-	SPA.I	-	S119	021SS-38	11			HSSVMCB2	27	312200 J03	052	
004	SPIRE PLW Ch41-44 . 44gnd	SPA.I	-	S119	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
009	SPIRE PLW Ch45-48 . 45+	SPA.I	-	S120	021SS-38	12		PLW-E6	HSSVMCB2	27	312200 J03	009	
017	SPIRE PLW Ch45-48 . 45-	SPA.I	-	S120	021SS-38	12			HSSVMCB2	27	312200 J03	017	
004	SPIRE PLW Ch45-48 . 45gnd	SPA.I	-	S120	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
018	SPIRE PLW Ch45-48 . 46+	SPA.I	-	S120	021SS-38	12		PLW-E8	HSSVMCB2	27	312200 J03	018	
028	SPIRE PLW Ch45-48 . 46-	SPA.I	-	S120	021SS-38	12			HSSVMCB2	27	312200 J03	028	
004	SPIRE PLW Ch45-48 . 46gnd	SPA.I	-	S120	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
016	SPIRE PLW Ch45-48 . 47+	SPA.I	-	S120	021SS-38	12		PLW-DK2	HSSVMCB2	27	312200 J03	016	
027	SPIRE PLW Ch45-48 . 47-	SPA.I	-	S120	021SS-38	12			HSSVMCB2	27	312200 J03	027	
004	SPIRE PLW Ch45-48 . 47gnd	SPA.I	-	S120	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
040	SPIRE PLW Ch45-48 . 48+	SPA.I	-	S120	021SS-38	12		PLW-E9	HSSVMCB2	27	312200 J03	040	
039	SPIRE PLW Ch45-48 . 48-	SPA.I	-	S120	021SS-38	12			HSSVMCB2	27	312200 J03	039	
004	SPIRE PLW Ch45-48 . 48gnd	SPA.I	-	S120	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J03	004	
-	Faraday Link	-	-	-	-	-	-	Cable P13 Faraday Shd con to Busbar tbc	-	-	-	-	-
001	Faraday Pins	-	-	-	-	-	-	Connected to Busbar ECR0039 tbc	-	-	-	-	-
002	Faraday Pins	-	-	-	-	-	-	Connected to Busbar ECR0039 tbc	-	-	-	-	-
003	Faraday Pins	-	-	-	-	-	-	Connected to Busbar ECR0039 tbc	-	-	-	-	-
005	Faraday Pins	-	-	-	-	-	-	Connected to Busbar ECR0039 tbc	-	-	-	-	-

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 211121 P24

Item: CVVUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
006	Faraday Pins						Connected to Busbar ECR0039 tbc					
007	Faraday Pins						Connected to Busbar ECR0039 tbc					
008	Faraday Pins						Connected to Busbar ECR0039 tbc					
014	Faraday Pins						Connected to Busbar ECR0039 tbc					
015	Faraday Pins						Connected to Busbar ECR0039 tbc					
024	Faraday Pins						Connected to Busbar ECR0039 tbc					
025	Faraday Pins						Connected to Busbar ECR0039 tbc					
035	Faraday Pins						Connected to Busbar ECR0039 tbc					
082	Faraday Pins						Connected to Busbar ECR0039 tbc					
093	Faraday Pins						Connected to Busbar ECR0039 tbc					
094	Faraday Pins						Connected to Busbar ECR0039 tbc					
104	Faraday Pins						Connected to Busbar ECR0039 tbc					
105	Faraday Pins						Connected to Busbar ECR0039 tbc					
114	Faraday Pins						Connected to Busbar ECR0039 tbc					
115	Faraday Pins						Connected to Busbar ECR0039 tbc					
121	Faraday Pins						Connected to Busbar ECR0039 tbc					
122	Faraday Pins						Connected to Busbar ECR0039 tbc					
123	Faraday Pins						Connected to Busbar ECR0039 tbc					
124	Faraday Pins						Connected to Busbar ECR0039 tbc					
125	Faraday Pins						Connected to Busbar ECR0039 tbc					



Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

**Connector:** 211121 P24  
**Item:** CWUCR  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)  
**Location:** 33 / CVV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
126	Faraday Pins						Connected to Busbar ECR0039 tbc					
127	Faraday Pins						Connected to Busbar ECR0039 tbc					
-	Connector Housing						CH isolated from Faraday Shds					
-	Insulating Jacket						Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd						Bundle Overall Shd con to Backshell					
-	to inner overall shield											3.



**Pin Allocation List**  
**(Harness)**

For wiring Schematic  
 see Slt-15-05-CVVUCR P23

**Connector:** 21121 P25  
**Item:** CVWUCR

**Function:** UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
036	SPIRE PLW B07 GND WIRE A1	SPX.-	-	S471	010B0-30			Con to Cable from P09 GND/Shds	HSSVMCB2	27	312200 J04	036	
026	SPIRE PSW (5) Ch01-04 . 1+	SPC.I	-	S158	021SS-38	1		PSW-D11	HSSVMCB2	27	312200 J04	026	
037	SPIRE PSW (5) Ch01-04 . 1-	SPC.I	-	S158	021SS-38	1			HSSVMCB2	27	312200 J04	037	
036	SPIRE PSW (5) Ch01-04 . 1gnd	SPC.I	-	S158	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
038	SPIRE PSW (5) Ch01-04 . 2+	SPC.I	-	S158	021SS-38	1		PSW-A10	HSSVMCB2	27	312200 J04	038	
049	SPIRE PSW (5) Ch01-04 . 2-	SPC.I	-	S158	021SS-38	1			HSSVMCB2	27	312200 J04	049	
036	SPIRE PSW (5) Ch01-04 . 2gnd	SPC.I	-	S158	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
048	SPIRE PSW (5) Ch01-04 . 3+	SPC.I	-	S158	021SS-38	1		PSW-E10	HSSVMCB2	27	312200 J04	048	
060	SPIRE PSW (5) Ch01-04 . 3-	SPC.I	-	S158	021SS-38	1			HSSVMCB2	27	312200 J04	060	
036	SPIRE PSW (5) Ch01-04 . 3gnd	SPC.I	-	S158	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
059	SPIRE PSW (5) Ch01-04 . 4+	SPC.I	-	S158	021SS-38	1		PSW-C10	HSSVMCB2	27	312200 J04	059	
071	SPIRE PSW (5) Ch01-04 . 4-	SPC.I	-	S158	021SS-38	1			HSSVMCB2	27	312200 J04	071	
036	SPIRE PSW (5) Ch01-04 . 4gnd	SPC.I	-	S158	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
050	SPIRE PSW (5) Ch05-08 . 5+	SPC.I	-	S159	021SS-38	2		PSW-B10	HSSVMCB2	27	312200 J04	050	
061	SPIRE PSW (5) Ch05-08 . 5-	SPC.I	-	S159	021SS-38	2			HSSVMCB2	27	312200 J04	061	
036	SPIRE PSW (5) Ch05-08 . 5gnd	SPC.I	-	S159	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
062	SPIRE PSW (5) Ch05-08 . 6+	SPC.I	-	S159	021SS-38	2		PSW-D10	HSSVMCB2	27	312200 J04	062	
051	SPIRE PSW (5) Ch05-08 . 6-	SPC.I	-	S159	021SS-38	2			HSSVMCB2	27	312200 J04	051	
036	SPIRE PSW (5) Ch05-08 . 6gnd	SPC.I	-	S159	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
063	SPIRE PSW (5) Ch05-08 . 7+	SPC.I	-	S159	021SS-38	2		PSW-A9	HSSVMCB2	27	312200 J04	063	
075	SPIRE PSW (5) Ch05-08 . 7-	SPC.I	-	S159	021SS-38	2			HSSVMCB2	27	312200 J04	075	
036	SPIRE PSW (5) Ch05-08 . 7gnd	SPC.I	-	S159	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
074	SPIRE PSW (5) Ch05-08 . 8+	SPC.I	-	S159	021SS-38	2		PSW-E9	HSSVMCB2	27	312200 J04	074	
073	SPIRE PSW (5) Ch05-08 . 8-	SPC.I	-	S159	021SS-38	2			HSSVMCB2	27	312200 J04	073	
036	SPIRE PSW (5) Ch05-08 . 8gnd	SPC.I	-	S159	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
083	SPIRE PSW (5) Ch09-12 . 9+	SPC.I	-	S160	021SS-38	3		PSW-C9	HSSVMCB2	27	312200 J04	083	
072	SPIRE PSW (5) Ch09-12 . 9-	SPC.I	-	S160	021SS-38	3			HSSVMCB2	27	312200 J04	072	

# Pin Allocation List

(Harness)

**Connector:** 211121 P25  
**Item:** CVVUCR  
**EMC-Category:** 2/Sig H fr CVWFT to SVMCB

**Function:** UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PSW (5) Ch09-12 . 9gnd	SPC.I	-	S160	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
095	SPIRE PSW (5) Ch09-12 . 10+	SPC.I	-	S160	021SS-38	3		PSW-B9	HSSVMCB2	27	312200 J04	095	
084	SPIRE PSW (5) Ch09-12 . 10-	SPC.I	-	S160	021SS-38	3			HSSVMCB2	27	312200 J04	084	
036	SPIRE PSW (5) Ch09-12 . 10gnd	SPC.I	-	S160	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
096	SPIRE PSW (5) Ch09-12 . 11+	SPC.I	-	S160	021SS-38	3		PSW-D9	HSSVMCB2	27	312200 J04	096	
085	SPIRE PSW (5) Ch09-12 . 11-	SPC.I	-	S160	021SS-38	3			HSSVMCB2	27	312200 J04	085	
036	SPIRE PSW (5) Ch09-12 . 11gnd	SPC.I	-	S160	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
106	SPIRE PSW (5) Ch09-12 . 12+	SPC.I	-	S160	021SS-38	3		PSW-A8	HSSVMCB2	27	312200 J04	106	
107	SPIRE PSW (5) Ch09-12 . 12-	SPC.I	-	S160	021SS-38	3			HSSVMCB2	27	312200 J04	107	
036	SPIRE PSW (5) Ch09-12 . 12gnd	SPC.I	-	S160	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J04	036	
-	Faraday Link							Cable P09 Faraday Shd con to Busbar tbc					
128	SPIRE PLW B07 GND WIRE A2	SPX.-	-	S472	010B0-30			Con to Cable from P10 GND/Shds	HSSVMCB2	27	312200 J04	128	
086	SPIRE PSW (5) Ch13-16 . 13+	SPC.I	-	S163	021SS-38	4		PSW-C8	HSSVMCB2	27	312200 J04	086	
087	SPIRE PSW (5) Ch13-16 . 13-	SPC.I	-	S163	021SS-38	4			HSSVMCB2	27	312200 J04	087	
036	SPIRE PSW (5) Ch13-16 . 13gnd	SPC.I	-	S163	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	036	3.
097	SPIRE PSW (5) Ch13-16 . 14+	SPC.I	-	S163	021SS-38	4		PSW-E8	HSSVMCB2	27	312200 J04	097	
098	SPIRE PSW (5) Ch13-16 . 14-	SPC.I	-	S163	021SS-38	4			HSSVMCB2	27	312200 J04	098	
036	SPIRE PSW (5) Ch13-16 . 14gnd	SPC.I	-	S163	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	036	3.
108	SPIRE PSW (5) Ch13-16 . 15+	SPC.I	-	S163	021SS-38	4		PSW-D8	HSSVMCB2	27	312200 J04	108	
109	SPIRE PSW (5) Ch13-16 . 15-	SPC.I	-	S163	021SS-38	4			HSSVMCB2	27	312200 J04	109	
036	SPIRE PSW (5) Ch13-16 . 15gnd	SPC.I	-	S163	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	036	3.
116	SPIRE PSW (5) Ch13-16 . 16+	SPC.I	-	S163	021SS-38	4		PSW-B8	HSSVMCB2	27	312200 J04	116	
117	SPIRE PSW (5) Ch13-16 . 16-	SPC.I	-	S163	021SS-38	4			HSSVMCB2	27	312200 J04	117	
036	SPIRE PSW (5) Ch13-16 . 16gnd	SPC.I	-	S163	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	036	3.
055	SPIRE PSW (5) Ch17-20 . 17+	SPC.I	-	S164	021SS-38	5		PSW-C7	HSSVMCB2	27	312200 J04	055	

**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-3 (of 8)

**Connector:** 211121 P25  
**Item:** CAVUCR  
**EMC-Category:** 2/Sig H fr CAVFT to SVMCB

**Function:** UFTThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVV I/F CB Top PFM (CWWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
066	SPIRE PSW (5) Ch17-20 . 17-	SPC.I	-	S164	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	066	
128	SPIRE PSW (5) Ch17-20 . 17gnd	SPC.I	-	S164	021SS-38	5			HSSVMCB2	27	312200 J04	128	
067	SPIRE PSW (5) Ch17-20 . 18+	SPC.I	-	S164	021SS-38	5		PSW-E7	HSSVMCB2	27	312200 J04	067	
078	SPIRE PSW (5) Ch17-20 . 18-	SPC.I	-	S164	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	078	
128	SPIRE PSW (5) Ch17-20 . 18gnd	SPC.I	-	S164	021SS-38	5			HSSVMCB2	27	312200 J04	128	
076	SPIRE PSW (5) Ch17-20 . 19+	SPC.I	-	S164	021SS-38	5		PSW-A7	HSSVMCB2	27	312200 J04	076	
077	SPIRE PSW (5) Ch17-20 . 19-	SPC.I	-	S164	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	077	
128	SPIRE PSW (5) Ch17-20 . 19gnd	SPC.I	-	S164	021SS-38	5			HSSVMCB2	27	312200 J04	128	
088	SPIRE PSW (5) Ch17-20 . 20+	SPC.I	-	S164	021SS-38	5		PSW-D7	HSSVMCB2	27	312200 J04	088	
089	SPIRE PSW (5) Ch17-20 . 20-	SPC.I	-	S164	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	089	
128	SPIRE PSW (5) Ch17-20 . 20gnd	SPC.I	-	S164	021SS-38	5			HSSVMCB2	27	312200 J04	128	
099	SPIRE PSW (5) Ch21-24 . 21+	SPC.I	-	S165	021SS-38	6		PSW-B7	HSSVMCB2	27	312200 J04	099	
100	SPIRE PSW (5) Ch21-24 . 21-	SPC.I	-	S165	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	100	
128	SPIRE PSW (5) Ch21-24 . 21gnd	SPC.I	-	S165	021SS-38	6			HSSVMCB2	27	312200 J04	128	
110	SPIRE PSW (5) Ch21-24 . 22+	SPC.I	-	S165	021SS-38	6		PSW-C6	HSSVMCB2	27	312200 J04	110	
111	SPIRE PSW (5) Ch21-24 . 22-	SPC.I	-	S165	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	111	
128	SPIRE PSW (5) Ch21-24 . 22gnd	SPC.I	-	S165	021SS-38	6			HSSVMCB2	27	312200 J04	128	
118	SPIRE PSW (5) Ch21-24 . 23+	SPC.I	-	S165	021SS-38	6		PSW-E6	HSSVMCB2	27	312200 J04	118	
119	SPIRE PSW (5) Ch21-24 . 23-	SPC.I	-	S165	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	119	
128	SPIRE PSW (5) Ch21-24 . 23gnd	SPC.I	-	S165	021SS-38	6			HSSVMCB2	27	312200 J04	128	
112	SPIRE PSW (5) Ch21-24 . 24+	SPC.I	-	S165	021SS-38	6		PSW-A6	HSSVMCB2	27	312200 J04	112	
120	SPIRE PSW (5) Ch21-24 . 24-	SPC.I	-	S165	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J04	120	
128	SPIRE PSW (5) Ch21-24 . 24gnd	SPC.I	-	S165	021SS-38	6			HSSVMCB2	27	312200 J04	128	
-	Faraday Link							Cable P10 Faraday Shd con to Busbar tbc					
047	SPIRE PLW B07 GND WIRE A3	SPX.-	-	S473	010B0-30			Con to Cable from P11 GND/Shds	HSSVMCB2	27	312200 J04	047	

# Pin Allocation List (Harness)

**Connector:** 211121 P25  
**Item:** CWUJCR  
**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CW / I/F CB Top PFM (CWUJCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
090	SPIRE PSW (6) Ch25-28 . 25+	SPC.I -		S167	021SS-38	7		PSW-G5	HSSVMCB2	27	312200 J04	090	
079	SPIRE PSW (6) Ch25-28 . 25-	SPC.I -		S167	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	079	
128	SPIRE PSW (6) Ch25-28 . 25grnd	SPC.I -		S167	021SS-38	7			HSSVMCB2	27	312200 J04	128	3.
102	SPIRE PSW (6) Ch25-28 . 26+	SPC.I -		S167	021SS-38	7		PSW-H6	HSSVMCB2	27	312200 J04	102	
101	SPIRE PSW (6) Ch25-28 . 26-	SPC.I -		S167	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	101	
128	SPIRE PSW (6) Ch25-28 . 26grnd	SPC.I -		S167	021SS-38	7			HSSVMCB2	27	312200 J04	128	3.
092	SPIRE PSW (6) Ch25-28 . 27+	SPC.I -		S167	021SS-38	7		PSW-J6	HSSVMCB2	27	312200 J04	092	
091	SPIRE PSW (6) Ch25-28 . 27-	SPC.I -		S167	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	091	
128	SPIRE PSW (6) Ch25-28 . 27grnd	SPC.I -		S167	021SS-38	7			HSSVMCB2	27	312200 J04	128	3.
103	SPIRE PSW (6) Ch25-28 . 28+	SPC.I -		S167	021SS-38	7		PSW-F6	HSSVMCB2	27	312200 J04	103	
113	SPIRE PSW (6) Ch25-28 . 28-	SPC.I -		S167	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	113	
128	SPIRE PSW (6) Ch25-28 . 28grnd	SPC.I -		S167	021SS-38	7			HSSVMCB2	27	312200 J04	128	3.
058	SPIRE PSW (6) Ch29-32 . 29+	SPC.I -		S168	021SS-38	8		PSW-G6	HSSVMCB2	27	312200 J04	058	
046	SPIRE PSW (6) Ch29-32 . 29-	SPC.I -		S168	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	046	
128	SPIRE PSW (6) Ch29-32 . 29grnd	SPC.I -		S168	021SS-38	8			HSSVMCB2	27	312200 J04	128	3.
068	SPIRE PSW (6) Ch29-32 . 30+	SPC.I -		S168	021SS-38	8		PSW-H7	HSSVMCB2	27	312200 J04	068	
057	SPIRE PSW (6) Ch29-32 . 30-	SPC.I -		S168	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	057	
128	SPIRE PSW (6) Ch29-32 . 30grnd	SPC.I -		S168	021SS-38	8			HSSVMCB2	27	312200 J04	128	3.
069	SPIRE PSW (6) Ch29-32 . 31+	SPC.I -		S168	021SS-38	8		PSW-F7	HSSVMCB2	27	312200 J04	069	
080	SPIRE PSW (6) Ch29-32 . 31-	SPC.I -		S168	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	080	
128	SPIRE PSW (6) Ch29-32 . 31grnd	SPC.I -		S168	021SS-38	8			HSSVMCB2	27	312200 J04	128	3.
070	SPIRE PSW (6) Ch29-32 . 32+	SPC.I -		S168	021SS-38	8		PSW-J7	HSSVMCB2	27	312200 J04	070	
081	SPIRE PSW (6) Ch29-32 . 32-	SPC.I -		S168	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	081	
128	SPIRE PSW (6) Ch29-32 . 32grnd	SPC.I -		S168	021SS-38	8			HSSVMCB2	27	312200 J04	128	3.
023	SPIRE PSW (6) Ch33-36 . 33+	SPC.I -		S169	021SS-38	9		PSW-G7	HSSVMCB2	27	312200 J04	023	
034	SPIRE PSW (6) Ch33-36 . 33-	SPC.I -		S169	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	034	
004	SPIRE PSW (6) Ch33-36 . 33grnd	SPC.I -		S169	021SS-38	9			HSSVMCB2	27	312200 J04	004	3.
033	SPIRE PSW (6) Ch33-36 . 34+	SPC.I -		169	021SS-38	9		PSW-H8	HSSVMCB2	27	312200 J04	033	

# Pin Allocation List (Harness)

**Connector:** 211121 P25  
**Item:** CVAUCR  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** UFTThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVV I/F CB Top PFM (CVAUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring		Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	SPX	Shd	Cable Twist						
045	SPIRE PSW (6) Ch33-36 . 34-	SPC.I	-	S169	021SS-38	9			Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	045	
004	SPIRE PSW (6) Ch33-36 . 34gnd	SPC.I	-	S169	021SS-38	9				HSSVMCB2	27	312200 J04	004	3.
044	SPIRE PSW (6) Ch33-36 . 35+	SPC.I	-	S169	021SS-38	9			PSW-F8		27	312200 J04	044	
056	SPIRE PSW (6) Ch33-36 . 35-	SPC.I	-	S169	021SS-38	9			Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	056	
004	SPIRE PSW (6) Ch33-36 . 35gnd	SPC.I	-	S169	021SS-38	9				HSSVMCB2	27	312200 J04	004	3.
022	SPIRE PSW (6) Ch33-36 . 36+	SPC.I	-	S169	021SS-38	9			PSW-G8		27	312200 J04	022	
032	SPIRE PSW (6) Ch33-36 . 36-	SPC.I	-	S169	021SS-38	9			Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J04	032	
004	SPIRE PSW (6) Ch33-36 . 36gnd	SPC.I	-	S169	021SS-38	9				HSSVMCB2	27	312200 J04	004	3.
-	Faraday Link								Cable P11 Faraday Shd con to Busbar tbc					
004	SPIRE PLW B07 GND WIRE A4	SPX.-	-	S474	010B0-30				Con to Cable from P12 GND/Shds	HSSVMCB2	27	312200 J04	004	
013	SPIRE PSW (6) Ch37-40 . 37+	SPC.I	-	S172	021SS-38	10			PSW-J8	HSSVMCB2	27	312200 J04	013	
012	SPIRE PSW (6) Ch37-40 . 37-	SPC.I	-	S172	021SS-38	10				HSSVMCB2	27	312200 J04	012	
004	SPIRE PSW (6) Ch37-40 . 37gnd	SPC.I	-	S172	021SS-38	10			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	004	
021	SPIRE PSW (6) Ch37-40 . 38+	SPC.I	-	S172	021SS-38	10			PSW-F9		27	312200 J04	021	
020	SPIRE PSW (6) Ch37-40 . 38-	SPC.I	-	S172	021SS-38	10			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	020	
004	SPIRE PSW (6) Ch37-40 . 38gnd	SPC.I	-	S172	021SS-38	10				HSSVMCB2	27	312200 J04	004	
031	SPIRE PSW (6) Ch37-40 . 39+	SPC.I	-	S172	021SS-38	10			PSW-H9		27	312200 J04	031	
043	SPIRE PSW (6) Ch37-40 . 39-	SPC.I	-	S172	021SS-38	10			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	043	
004	SPIRE PSW (6) Ch37-40 . 39gnd	SPC.I	-	S172	021SS-38	10				HSSVMCB2	27	312200 J04	004	
042	SPIRE PSW (6) Ch37-40 . 40+	SPC.I	-	S172	021SS-38	10			PSW-G9		27	312200 J04	042	
054	SPIRE PSW (6) Ch37-40 . 40-	SPC.I	-	S172	021SS-38	10			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	054	
004	SPIRE PSW (6) Ch37-40 . 40gnd	SPC.I	-	S172	021SS-38	10				HSSVMCB2	27	312200 J04	004	
010	SPIRE PSW (6) Ch41-44 . 41+	SPC.I	-	S173	021SS-38	11			PSW-J9		27	312200 J04	010	
011	SPIRE PSW (6) Ch41-44 . 41-	SPC.I	-	S173	021SS-38	11			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	011	
004	SPIRE PSW (6) Ch41-44 . 41gnd	SPC.I	-	S173	021SS-38	11				HSSVMCB2	27	312200 J04	004	

# Pin Allocation List

(Harness)

**Connector:** 211121 P25  
**Item:** CWUUCR  
**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVW /IF CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring		Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	S173	S174	Shd						
019	SPIRE PSW (6) Ch41-44 . 42+	SPC.I	-	S173	021SS-38	11			PSW-F10	HSSVMCB2	27	312200 J04	019	
029	SPIRE PSW (6) Ch41-44 . 42-	SPC.I	-	S173	021SS-38	11			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	029	
004	SPIRE PSW (6) Ch41-44 . 42grnd	SPC.I	-	S173	021SS-38	11				HSSVMCB2	27	312200 J04	004	
041	SPIRE PSW (6) Ch41-44 . 43+	SPC.I	-	S173	021SS-38	11			PSW-H10	HSSVMCB2	27	312200 J04	041	
030	SPIRE PSW (6) Ch41-44 . 43-	SPC.I	-	S173	021SS-38	11			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	030	
004	SPIRE PSW (6) Ch41-44 . 43grnd	SPC.I	-	S173	021SS-38	11				HSSVMCB2	27	312200 J04	004	
053	SPIRE PSW (6) Ch41-44 . 44+	SPC.I	-	S173	021SS-38	11			PSW-G10	HSSVMCB2	27	312200 J04	053	
052	SPIRE PSW (6) Ch41-44 . 44-	SPC.I	-	S173	021SS-38	11			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	052	
004	SPIRE PSW (6) Ch41-44 . 44grnd	SPC.I	-	S173	021SS-38	11				HSSVMCB2	27	312200 J04	004	
009	SPIRE PSW (6) Ch45-48 . 45+	SPC.I	-	S174	021SS-38	12			PSW-F11	HSSVMCB2	27	312200 J04	009	
017	SPIRE PSW (6) Ch45-48 . 45-	SPC.I	-	S174	021SS-38	12			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	017	
004	SPIRE PSW (6) Ch45-48 . 45grnd	SPC.I	-	S174	021SS-38	12				HSSVMCB2	27	312200 J04	004	
018	SPIRE PSW (6) Ch45-48 . 46+	SPC.I	-	S174	021SS-38	12			PSW-J10	HSSVMCB2	27	312200 J04	018	
028	SPIRE PSW (6) Ch45-48 . 46-	SPC.I	-	S174	021SS-38	12			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	028	
004	SPIRE PSW (6) Ch45-48 . 46grnd	SPC.I	-	S174	021SS-38	12				HSSVMCB2	27	312200 J04	004	
016	SPIRE PSW (6) Ch45-48 . 47+	SPC.I	-	S174	021SS-38	12			PSW-H11	HSSVMCB2	27	312200 J04	016	
027	SPIRE PSW (6) Ch45-48 . 47-	SPC.I	-	S174	021SS-38	12			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	027	
004	SPIRE PSW (6) Ch45-48 . 47grnd	SPC.I	-	S174	021SS-38	12				HSSVMCB2	27	312200 J04	004	
040	SPIRE PSW (6) Ch45-48 . 48+	SPC.I	-	S174	021SS-38	12			PSW-G11	HSSVMCB2	27	312200 J04	040	
039	SPIRE PSW (6) Ch45-48 . 48-	SPC.I	-	S174	021SS-38	12			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J04	039	
004	SPIRE PSW (6) Ch45-48 . 48grnd	SPC.I	-	S174	021SS-38	12				HSSVMCB2	27	312200 J04	004	
-	Faraday Link								Cable from P12 Faraday Shd con to Busbar tbc					
001	Faraday Pins								Connected to Busbar ECR0039tbc					
002	Faraday Pins								Connected to Busbar ECR0039tbc					
003	Faraday Pins								Connected to Busbar ECR0039tbc					



# Pin Allocation List (Harness)

**Connector:** 211121 P25  
**Item:** CVUUCR  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)  
**Location:** 33 / CVW /IF CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
005	Faraday Pins							Connected to Busbar ECR0039tbc					
006	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					
015	Faraday Pins							Connected to Busbar ECR0039tbc					
024	Faraday Pins							Connected to Busbar ECR0039tbc					
025	Faraday Pins							Connected to Busbar ECR0039tbc					
035	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
093	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
104	Faraday Pins							Connected to Busbar ECR0039tbc					
105	Faraday Pins							Connected to Busbar ECR0039tbc					
114	Faraday Pins							Connected to Busbar ECR0039tbc					
115	Faraday Pins							Connected to Busbar ECR0039tbc					
121	Faraday Pins							Connected to Busbar ECR0039tbc					
122	Faraday Pins							Connected to Busbar ECR0039tbc					
123	Faraday Pins							Connected to Busbar ECR0039tbc					
124	Faraday Pins							Connected to Busbar ECR0039tbc					

Astrium GmbH

Project: HERSCHEL

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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Connector: 211121 P25

Item: CVVUCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	CH Connector Housing							Ch isolated from Faraday Shds No Overall Shd at Junction side					



# Pin Allocation List

(Harness)

For wiring schematic  
see S11-LS-05 CAVUCR P23

Connector: 211121 P27

Item: CAVUCR

EMC-Category: 2/Sig H fr CAVFT to SVMCB

Function: UFThr 257.0° (SPIRE XS-08 JFP 5.6.7.8)  
Location: 33 / CVV I/F CB Top PFM (CAWUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PLW B08 GND WIRE A1	SPX.- -	S481	010B0-30			Con to Cable from P05 GND/Shds	HSSVMCB2	27	312200 J01	036	
026	SPIRE PSW (3) Ch01-04 . 1+	SPC.I -	S140	021SS-38	1		PSW-D6	HSSVMCB2	27	312200 J01	026	
037	SPIRE PSW (3) Ch01-04 . 1-	SPC.I -	S140	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	037	
036	SPIRE PSW (3) Ch01-04 . 1gnd	SPC.I -	S140	021SS-38	1			HSSVMCB2	27	312200 J01	036	
038	SPIRE PSW (3) Ch01-04 . 2+	SPC.I -	S140	021SS-38	1		PSW-B6	HSSVMCB2	27	312200 J01	038	
049	SPIRE PSW (3) Ch01-04 . 2-	SPC.I -	S140	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	049	
036	SPIRE PSW (3) Ch01-04 . 2gnd	SPC.I -	S140	021SS-38	1			HSSVMCB2	27	312200 J01	036	
048	SPIRE PSW (3) Ch01-04 . 3+	SPC.I -	S140	021SS-38	1		PSW-C5	HSSVMCB2	27	312200 J01	048	
060	SPIRE PSW (3) Ch01-04 . 3-	SPC.I -	S140	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	060	
036	SPIRE PSW (3) Ch01-04 . 3gnd	SPC.I -	S140	021SS-38	1			HSSVMCB2	27	312200 J01	036	
059	SPIRE PSW (3) Ch01-04 . 4+	SPC.I -	S140	021SS-38	1		PSW-A5	HSSVMCB2	27	312200 J01	059	
071	SPIRE PSW (3) Ch01-04 . 4-	SPC.I -	S140	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	071	
036	SPIRE PSW (3) Ch01-04 . 4gnd	SPC.I -	S140	021SS-38	1			HSSVMCB2	27	312200 J01	036	
050	SPIRE PSW (3) Ch05-08 . 5+	SPC.I -	S141	021SS-38	2		PSW-E5	HSSVMCB2	27	312200 J01	050	
061	SPIRE PSW (3) Ch05-08 . 5-	SPC.I -	S141	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	061	
036	SPIRE PSW (3) Ch05-08 . 5gnd	SPC.I -	S141	021SS-38	2			HSSVMCB2	27	312200 J01	036	
062	SPIRE PSW (3) Ch05-08 . 6+	SPC.I -	S141	021SS-38	2		PSW-B5	HSSVMCB2	27	312200 J01	062	
051	SPIRE PSW (3) Ch05-08 . 6-	SPC.I -	S141	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	051	
036	SPIRE PSW (3) Ch05-08 . 6gnd	SPC.I -	S141	021SS-38	2			HSSVMCB2	27	312200 J01	036	
063	SPIRE PSW (3) Ch05-08 . 7+	SPC.I -	S141	021SS-38	2		PSW-D5	HSSVMCB2	27	312200 J01	063	
075	SPIRE PSW (3) Ch05-08 . 7-	SPC.I -	S141	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	075	
036	SPIRE PSW (3) Ch05-08 . 7gnd	SPC.I -	S141	021SS-38	2			HSSVMCB2	27	312200 J01	036	
074	SPIRE PSW (3) Ch05-08 . 8+	SPC.I -	S141	021SS-38	2		PSW-C4	HSSVMCB2	27	312200 J01	074	
073	SPIRE PSW (3) Ch05-08 . 8-	SPC.I -	S141	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	073	
036	SPIRE PSW (3) Ch05-08 . 8gnd	SPC.I -	S141	021SS-38	2			HSSVMCB2	27	312200 J01	036	
083	SPIRE PSW (3) Ch09-12 . 9+	SPC.I -	S142	021SS-38	3		PSW-A4	HSSVMCB2	27	312200 J01	083	
072	SPIRE PSW (3) Ch09-12 . 9-	SPC.I -	S142	021SS-38	3			HSSVMCB2	27	312200 J01	072	

# Pin Allocation List (Harness)

**Connector:** 211121 P27  
**Item:** CVVUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr 257.0° (SPIRE XS-08 JFP 5.6,.7,8)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
036	SPIRE PSW (3) Ch09-12 . 9gnd	SPC.I	-	S142	021SS-38	3	Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	036	
095	SPIRE PSW (3) Ch09-12 . 10+	SPC.I	-	S142	021SS-38	3	PSW-D4	HSSVMCB2	27	312200 J01	095	
084	SPIRE PSW (3) Ch09-12 . 10-	SPC.I	-	S142	021SS-38	3		HSSVMCB2	27	312200 J01	084	
036	SPIRE PSW (3) Ch09-12 . 10gnd	SPC.I	-	S142	021SS-38	3	Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	036	
096	SPIRE PSW (3) Ch09-12 . 11+	SPC.I	-	S142	021SS-38	3	PSW-B4	HSSVMCB2	27	312200 J01	096	
085	SPIRE PSW (3) Ch09-12 . 11-	SPC.I	-	S142	021SS-38	3		HSSVMCB2	27	312200 J01	085	
036	SPIRE PSW (3) Ch09-12 . 11gnd	SPC.I	-	S142	021SS-38	3	Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	036	
106	SPIRE PSW (3) Ch09-12 . 12+	SPC.I	-	S142	021SS-38	3	PSW-C3	HSSVMCB2	27	312200 J01	106	
107	SPIRE PSW (3) Ch09-12 . 12-	SPC.I	-	S142	021SS-38	3		HSSVMCB2	27	312200 J01	107	
036	SPIRE PSW (3) Ch09-12 . 12gnd	SPC.I	-	S142	021SS-38	3	Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J01	036	
-	Faraday Link						Cable P05 Faraday Shd con to Busbar tbc					
128	SPIRE PLW B08 GND WIRE A2	SPX.-	-	S482	010B0-30		Con to Cable from P06 GND/Shds	HSSVMCB2	27	312200 J01	128	
086	SPIRE PSW (3) Ch13-16 . 13+	SPC.I	-	S145	021SS-38	4	PSW-B3	HSSVMCB2	27	312200 J01	086	
087	SPIRE PSW (3) Ch13-16 . 13-	SPC.I	-	S145	021SS-38	4		HSSVMCB2	27	312200 J01	087	
036	SPIRE PSW (3) Ch13-16 . 13gnd	SPC.I	-	S145	021SS-38	4	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	036	3.
097	SPIRE PSW (3) Ch13-16 . 14+	SPC.I	-	S145	021SS-38	4	PSW-A3	HSSVMCB2	27	312200 J01	097	
098	SPIRE PSW (3) Ch13-16 . 14-	SPC.I	-	S145	021SS-38	4		HSSVMCB2	27	312200 J01	098	
036	SPIRE PSW (3) Ch13-16 . 14gnd	SPC.I	-	S145	021SS-38	4	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	036	3.
108	SPIRE PSW (3) Ch13-16 . 15+	SPC.I	-	S145	021SS-38	4	PSW-A2	HSSVMCB2	27	312200 J01	108	
109	SPIRE PSW (3) Ch13-16 . 15-	SPC.I	-	S145	021SS-38	4		HSSVMCB2	27	312200 J01	109	
036	SPIRE PSW (3) Ch13-16 . 15gnd	SPC.I	-	S145	021SS-38	4	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	036	3.
116	SPIRE PSW (3) Ch13-16 . 16+	SPC.I	-	S145	021SS-38	4	PSW-D3	HSSVMCB2	27	312200 J01	116	
117	SPIRE PSW (3) Ch13-16 . 16-	SPC.I	-	S145	021SS-38	4		HSSVMCB2	27	312200 J01	117	
036	SPIRE PSW (3) Ch13-16 . 16gnd	SPC.I	-	S145	021SS-38	4	Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	036	3.
055	SPIRE PSW (3) Ch17-20 . 17+	SPC.I	-	S146	021SS-38	5	PSW-C2	HSSVMCB2	27	312200 J01	055	

# Pin Allocation List (Harness)

**Connector:** 211121 P27  
**Item:** CVVUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr 257.0° (SPIRE XS-08 JFP 5.6,.7,8)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
066	SPIRE PSW (3) Ch17-20 . 17-	SPC.I	-	S146	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	066	
128	SPIRE PSW (3) Ch17-20 . 17gnd	SPC.I	-	S146	021SS-38	5			HSSVMCB2	27	312200 J01	128	
067	SPIRE PSW (3) Ch17-20 . 18+	SPC.I	-	S146	021SS-38	5		PSW-B2	HSSVMCB2	27	312200 J01	067	
078	SPIRE PSW (3) Ch17-20 . 18-	SPC.I	-	S146	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	078	
128	SPIRE PSW (3) Ch17-20 . 18gnd	SPC.I	-	S146	021SS-38	5			HSSVMCB2	27	312200 J01	128	
076	SPIRE PSW (3) Ch17-20 . 19+	SPC.I	-	S146	021SS-38	5		PSW-D2	HSSVMCB2	27	312200 J01	076	
077	SPIRE PSW (3) Ch17-20 . 19-	SPC.I	-	S146	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	077	
128	SPIRE PSW (3) Ch17-20 . 19gnd	SPC.I	-	S146	021SS-38	5			HSSVMCB2	27	312200 J01	128	
088	SPIRE PSW (3) Ch17-20 . 20+	SPC.I	-	S146	021SS-38	5		PSW-A1	HSSVMCB2	27	312200 J01	088	
089	SPIRE PSW (3) Ch17-20 . 20-	SPC.I	-	S146	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	089	
128	SPIRE PSW (3) Ch17-20 . 20gnd	SPC.I	-	S146	021SS-38	5			HSSVMCB2	27	312200 J01	128	
099	SPIRE PSW (3) Ch21-24 . 21+	SPC.I	-	S147	021SS-38	6		PSW-C1	HSSVMCB2	27	312200 J01	099	
100	SPIRE PSW (3) Ch21-24 . 21-	SPC.I	-	S147	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	100	
128	SPIRE PSW (3) Ch21-24 . 21gnd	SPC.I	-	S147	021SS-38	6			HSSVMCB2	27	312200 J01	128	
110	SPIRE PSW (3) Ch21-24 . 22+	SPC.I	-	S147	021SS-38	6		PSW-B1	HSSVMCB2	27	312200 J01	110	
111	SPIRE PSW (3) Ch21-24 . 22-	SPC.I	-	S147	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	111	
128	SPIRE PSW (3) Ch21-24 . 22gnd	SPC.I	-	S147	021SS-38	6			HSSVMCB2	27	312200 J01	128	
118	SPIRE PSW (3) Ch21-24 . 23+	SPC.I	-	S147	021SS-38	6		PSW-DK1	HSSVMCB2	27	312200 J01	118	
119	SPIRE PSW (3) Ch21-24 . 23-	SPC.I	-	S147	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	119	
128	SPIRE PSW (3) Ch21-24 . 23gnd	SPC.I	-	S147	021SS-38	6			HSSVMCB2	27	312200 J01	128	
112	SPIRE PSW (3) Ch21-24 . 24+	SPC.I	-	S147	021SS-38	6		PSW-D1	HSSVMCB2	27	312200 J01	112	
120	SPIRE PSW (3) Ch21-24 . 24-	SPC.I	-	S147	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J01	120	
128	SPIRE PSW (3) Ch21-24 . 24gnd	SPC.I	-	S147	021SS-38	6			HSSVMCB2	27	312200 J01	128	
-	Faraday Link							Cable P06 Faraday Shd con to Busbar tbc					
047	SPIRE PLW B08 GND WIRE A3	SPX.-	-	S483	010B0-30			Con to Cable from P07 GND/Shds	HSSVMCB2	27	312200 J01	047	

# Pin Allocation List (Harness)

**Connector:** 211121 P27  
**Item:** CVVUCR  
**EMC-Category:** 2/Sig H fr CVWFT to SVMCB

**Function:** UFThr 257.0° (SPIRE XS-08 JFP 5.6, 7, 8)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
090	SPIRE PSW (4) Ch25-28 . 25+	SPC.I	-	S149	021SS-38	7		PSW-F12	HSSVMCB2	27	312200 J01	090	
079	SPIRE PSW (4) Ch25-28 . 25-	SPC.I	-	S149	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	079	3.
128	SPIRE PSW (4) Ch25-28 . 25gnd	SPC.I	-	S149	021SS-38	7			HSSVMCB2	27	312200 J01	128	3.
102	SPIRE PSW (4) Ch25-28 . 26+	SPC.I	-	S149	021SS-38	7		PSW-J11	HSSVMCB2	27	312200 J01	102	
101	SPIRE PSW (4) Ch25-28 . 26-	SPC.I	-	S149	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	101	3.
128	SPIRE PSW (4) Ch25-28 . 26gnd	SPC.I	-	S149	021SS-38	7			HSSVMCB2	27	312200 J01	128	3.
092	SPIRE PSW (4) Ch25-28 . 27+	SPC.I	-	S149	021SS-38	7		PSW-E12	HSSVMCB2	27	312200 J01	092	
091	SPIRE PSW (4) Ch25-28 . 27-	SPC.I	-	S149	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	091	3.
128	SPIRE PSW (4) Ch25-28 . 27gnd	SPC.I	-	S149	021SS-38	7			HSSVMCB2	27	312200 J01	128	3.
103	SPIRE PSW (4) Ch25-28 . 28+	SPC.I	-	S149	021SS-38	7		PSW-H12	HSSVMCB2	27	312200 J01	103	
113	SPIRE PSW (4) Ch25-28 . 28-	SPC.I	-	S149	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	113	3.
128	SPIRE PSW (4) Ch25-28 . 28gnd	SPC.I	-	S149	021SS-38	7			HSSVMCB2	27	312200 J01	128	3.
058	SPIRE PSW (4) Ch29-32 . 29+	SPC.I	-	S150	021SS-38	8		PSW-G12	HSSVMCB2	27	312200 J01	058	
046	SPIRE PSW (4) Ch29-32 . 29-	SPC.I	-	S150	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	046	3.
128	SPIRE PSW (4) Ch29-32 . 29gnd	SPC.I	-	S150	021SS-38	8			HSSVMCB2	27	312200 J01	128	3.
068	SPIRE PSW (4) Ch29-32 . 30+	SPC.I	-	S150	021SS-38	8		PSW-F13	HSSVMCB2	27	312200 J01	068	
057	SPIRE PSW (4) Ch29-32 . 30-	SPC.I	-	S150	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	057	3.
128	SPIRE PSW (4) Ch29-32 . 30gnd	SPC.I	-	S150	021SS-38	8			HSSVMCB2	27	312200 J01	128	3.
069	SPIRE PSW (4) Ch29-32 . 31+	SPC.I	-	S150	021SS-38	8		PSW-E13	HSSVMCB2	27	312200 J01	069	
080	SPIRE PSW (4) Ch29-32 . 31-	SPC.I	-	S150	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	080	3.
128	SPIRE PSW (4) Ch29-32 . 31gnd	SPC.I	-	S150	021SS-38	8			HSSVMCB2	27	312200 J01	128	3.
070	SPIRE PSW (4) Ch29-32 . 32+	SPC.I	-	S150	021SS-38	8		PSW-J12	HSSVMCB2	27	312200 J01	070	
081	SPIRE PSW (4) Ch29-32 . 32-	SPC.I	-	S150	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	081	3.
128	SPIRE PSW (4) Ch29-32 . 32gnd	SPC.I	-	S150	021SS-38	8			HSSVMCB2	27	312200 J01	128	3.
023	SPIRE PSW (4) Ch33-36 . 33+	SPC.I	-	S151	021SS-38	9		PSW-H13	HSSVMCB2	27	312200 J01	023	
034	SPIRE PSW (4) Ch33-36 . 33-	SPC.I	-	S151	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	034	3.
004	SPIRE PSW (4) Ch33-36 . 33gnd	SPC.I	-	S151	021SS-38	9			HSSVMCB2	27	312200 J01	004	3.
033	SPIRE PSW (4) Ch33-36 . 34+	SPC.I	-	S151	021SS-38	9		PSW-G13	HSSVMCB2	27	312200 J01	033	

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-5 (of 8)

Connector: 211121 P27

Item: CVVUCR

EMC-Category: 2l/Sig H fr CVVFT to SVMCB

Function: UFThr 257.0° (SPIRE XS-08 JFP 5.6.,7.8)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
045	SPIRE PSW (4) Ch33-36 . 34-	SPC.I -		S151	021SS-38	9			HSSVMCB2	27	312200 J01	045	
004	SPIRE PSW (4) Ch33-36 . 34gnd	SPC.I -		S151	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	004	3.
044	SPIRE PSW (4) Ch33-36 . 35+	SPC.I -		S151	021SS-38	9		PSW-F14	HSSVMCB2	27	312200 J01	044	
056	SPIRE PSW (4) Ch33-36 . 35-	SPC.I -		S151	021SS-38	9			HSSVMCB2	27	312200 J01	056	
004	SPIRE PSW (4) Ch33-36 . 35gnd	SPC.I -		S151	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	004	3.
022	SPIRE PSW (4) Ch33-36 . 36+	SPC.I -		S151	021SS-38	9		PSW-E14	HSSVMCB2	27	312200 J01	022	
032	SPIRE PSW (4) Ch33-36 . 36-	SPC.I -		S151	021SS-38	9			HSSVMCB2	27	312200 J01	032	
004	SPIRE PSW (4) Ch33-36 . 36gnd	SPC.I -		S151	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J01	004	3.
-	Faraday Link							Cable P07 Faraday Shd con to Busbar tbc					
004	SPIRE PLW B08 GND WIRE A4	SPX.- -		S484	010B0-30			Con to Cable from P08 GND/Shds	HSSVMCB2	27	312200 J01	004	
013	SPIRE PSW (4) Ch37-40 . 37+	SPC.I -		S154	021SS-38	10		PSW-J13	HSSVMCB2	27	312200 J01	013	
012	SPIRE PSW (4) Ch37-40 . 37-	SPC.I -		S154	021SS-38	10			HSSVMCB2	27	312200 J01	012	
004	SPIRE PSW (4) Ch37-40 . 37gnd	SPC.I -		S154	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
021	SPIRE PSW (4) Ch37-40 . 38+	SPC.I -		S154	021SS-38	10		PSW-H14	HSSVMCB2	27	312200 J01	021	
020	SPIRE PSW (4) Ch37-40 . 38-	SPC.I -		S154	021SS-38	10			HSSVMCB2	27	312200 J01	020	
004	SPIRE PSW (4) Ch37-40 . 38gnd	SPC.I -		S154	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
031	SPIRE PSW (4) Ch37-40 . 39+	SPC.I -		S154	021SS-38	10		PSW-G14	HSSVMCB2	27	312200 J01	031	
043	SPIRE PSW (4) Ch37-40 . 39-	SPC.I -		S154	021SS-38	10			HSSVMCB2	27	312200 J01	043	
004	SPIRE PSW (4) Ch37-40 . 39gnd	SPC.I -		S154	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
042	SPIRE PSW (4) Ch37-40 . 40+	SPC.I -		S154	021SS-38	10		PSW-J14	HSSVMCB2	27	312200 J01	042	
054	SPIRE PSW (4) Ch37-40 . 40-	SPC.I -		S154	021SS-38	10			HSSVMCB2	27	312200 J01	054	
004	SPIRE PSW (4) Ch37-40 . 40gnd	SPC.I -		S154	021SS-38	10		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
010	SPIRE PSW (4) Ch41-44 . 41+	SPC.I -		S155	021SS-38	11		PSW-F15	HSSVMCB2	27	312200 J01	010	
011	SPIRE PSW (4) Ch41-44 . 41-	SPC.I -		S155	021SS-38	11			HSSVMCB2	27	312200 J01	011	
004	SPIRE PSW (4) Ch41-44 . 41gnd	SPC.I -		S155	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	



# Pin Allocation List (Harness)

**Connector:** 211121 P27

**Item:** CVUUCR

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** UFThr 257.0° (SPIRE XS-08 JFP 5.6, 7, 8)  
**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
019	SPIRE PSW (4) Ch41-44 . 42+	SPC.I	-	S155	021SS-38	11		PSW-H15	HSSVMCB2	27	312200 J01	019	
029	SPIRE PSW (4) Ch41-44 . 42-	SPC.I	-	S155	021SS-38	11			HSSVMCB2	27	312200 J01	029	
004	SPIRE PSW (4) Ch41-44 . 42gnd	SPC.I	-	S155	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
041	SPIRE PSW (4) Ch41-44 . 43+	SPC.I	-	S155	021SS-38	11		PSW-J15	HSSVMCB2	27	312200 J01	041	
030	SPIRE PSW (4) Ch41-44 . 43-	SPC.I	-	S155	021SS-38	11			HSSVMCB2	27	312200 J01	030	
004	SPIRE PSW (4) Ch41-44 . 43gnd	SPC.I	-	S155	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
053	SPIRE PSW (4) Ch41-44 . 44+	SPC.I	-	S155	021SS-38	11		PSW-G15	HSSVMCB2	27	312200 J01	053	
052	SPIRE PSW (4) Ch41-44 . 44-	SPC.I	-	S155	021SS-38	11			HSSVMCB2	27	312200 J01	052	
004	SPIRE PSW (4) Ch41-44 . 44gnd	SPC.I	-	S155	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
009	SPIRE PSW (4) Ch45-48 . 45+	SPC.I	-	S156	021SS-38	12		PSW-H16	HSSVMCB2	27	312200 J01	009	
017	SPIRE PSW (4) Ch45-48 . 45-	SPC.I	-	S156	021SS-38	12			HSSVMCB2	27	312200 J01	017	
004	SPIRE PSW (4) Ch45-48 . 45gnd	SPC.I	-	S156	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
018	SPIRE PSW (4) Ch45-48 . 46+	SPC.I	-	S156	021SS-38	12		PSW-DK2	HSSVMCB2	27	312200 J01	018	
028	SPIRE PSW (4) Ch45-48 . 46-	SPC.I	-	S156	021SS-38	12			HSSVMCB2	27	312200 J01	028	
004	SPIRE PSW (4) Ch45-48 . 46gnd	SPC.I	-	S156	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
016	SPIRE PSW (4) Ch45-48 . 47+	SPC.I	-	S156	021SS-38	12		PSW-F16	HSSVMCB2	27	312200 J01	016	
027	SPIRE PSW (4) Ch45-48 . 47-	SPC.I	-	S156	021SS-38	12			HSSVMCB2	27	312200 J01	027	
004	SPIRE PSW (4) Ch45-48 . 47gnd	SPC.I	-	S156	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
040	SPIRE PSW (4) Ch45-48 . 48+	SPC.I	-	S156	021SS-38	12		PSW-E15	HSSVMCB2	27	312200 J01	040	
039	SPIRE PSW (4) Ch45-48 . 48-	SPC.I	-	S156	021SS-38	12			HSSVMCB2	27	312200 J01	039	
004	SPIRE PSW (4) Ch45-48 . 48gnd	SPC.I	-	S156	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J01	004	
-	Faraday Link							Cable from P08 Faraday Shd con to Busbar					
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 211121 P27  
Item: CVVUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr 257.0° (SPIRE XS-08 JFP 5.6.,7,8)  
Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
005	Faraday Pins						Connected to Busbar ECR0039tbc					
006	Faraday Pins						Connected to Busbar ECR0039tbc					
007	Faraday Pins						Connected to Busbar ECR0039tbc					
008	Faraday Pins						Connected to Busbar ECR0039tbc					
014	Faraday Pins						Connected to Busbar ECR0039tbc					
015	Faraday Pins						Connected to Busbar ECR0039tbc					
024	Faraday Pins						Connected to Busbar ECR0039tbc					
025	Faraday Pins						Connected to Busbar ECR0039tbc					
035	Faraday Pins						Connected to Busbar ECR0039tbc					
082	Faraday Pins						Connected to Busbar ECR0039tbc					
093	Faraday Pins						Connected to Busbar ECR0039tbc					
094	Faraday Pins						Connected to Busbar ECR0039tbc					
104	Faraday Pins						Connected to Busbar ECR0039tbc					
105	Faraday Pins						Connected to Busbar ECR0039tbc					
114	Faraday Pins						Connected to Busbar ECR0039tbc					
115	Faraday Pins						Connected to Busbar ECR0039tbc					
121	Faraday Pins						Connected to Busbar ECR0039tbc					
122	Faraday Pins						Connected to Busbar ECR0039tbc					
123	Faraday Pins						Connected to Busbar ECR0039tbc					
124	Faraday Pins						Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

Connector: 211121 P27

Item: CVVUCR

EMC-Category: 2I/Sig H fr CVVFT to SVMCB

Function: UFThr 257.0° (SPIRE XS-08 JFP 5.6., 7.8)

Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
125	Faraday Pins						Connected to Busbar ECR0039tbc					
126	Faraday Pins						Connected to Busbar ECR0039tbc					
127	Faraday Pins						Connected to Busbar ECR0039tbc					
-	CH Connector Housing						CH isolated from Faraday Shds No Overall Shd at Junction side					



# Astrium GmbH

Project: **HERSCHEL**

For wiring schematic  
see S111-15-05 CUVUCR P23

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 8)

Connector: 211121 P28

Item: CUVUCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFTnr 263.2° (SPIRE XS-09 JFP 1,2,3,4)

Location: 33 / CVV I/F CB Top PFM (CWUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PLW B09 GND WIRE A1	SPX.-	-	S491	010B0-30			Con to Cable from P01 GND/Shds	HSSVMCB2	27	312200 J02	036	
026	SPIRE PSW Ch01-04 . 1+	SPC.I	-	S122	021SS-38	1		PSW-R1	HSSVMCB2	27	312200 J02	026	
037	SPIRE PSW Ch01-04 . 1-	SPC.I	-	S122	021SS-38	1			HSSVMCB2	27	312200 J02	037	
036	SPIRE PSW Ch01-04 . 1gnd	SPC.I	-	S122	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
038	SPIRE PSW Ch01-04 . 2+	SPC.I	-	S122	021SS-38	1		PSW-D16	HSSVMCB2	27	312200 J02	038	
049	SPIRE PSW Ch01-04 . 2-	SPC.I	-	S122	021SS-38	1			HSSVMCB2	27	312200 J02	049	
036	SPIRE PSW Ch01-04 . 2gnd	SPC.I	-	S122	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
048	SPIRE PSW Ch01-04 . 3+	SPC.I	-	S122	021SS-38	1		PSW-T1	HSSVMCB2	27	312200 J02	048	
060	SPIRE PSW Ch01-04 . 3-	SPC.I	-	S122	021SS-38	1			HSSVMCB2	27	312200 J02	060	
036	SPIRE PSW Ch01-04 . 3gnd	SPC.I	-	S122	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
059	SPIRE PSW Ch01-04 . 4+	SPC.I	-	S122	021SS-38	1		PSW-B16	HSSVMCB2	27	312200 J02	059	
071	SPIRE PSW Ch01-04 . 4-	SPC.I	-	S122	021SS-38	1			HSSVMCB2	27	312200 J02	071	
036	SPIRE PSW Ch01-04 . 4gnd	SPC.I	-	S122	021SS-38	1		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
050	SPIRE PSW Ch05-08 . 5+	SPC.I	-	S123	021SS-38	2		PSW-C15	HSSVMCB2	27	312200 J02	050	
061	SPIRE PSW Ch05-08 . 5-	SPC.I	-	S123	021SS-38	2			HSSVMCB2	27	312200 J02	061	
036	SPIRE PSW Ch05-08 . 5gnd	SPC.I	-	S123	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
062	SPIRE PSW Ch05-08 . 6+	SPC.I	-	S123	021SS-38	2		PSW-A15	HSSVMCB2	27	312200 J02	062	
051	SPIRE PSW Ch05-08 . 6-	SPC.I	-	S123	021SS-38	2			HSSVMCB2	27	312200 J02	051	
036	SPIRE PSW Ch05-08 . 6gnd	SPC.I	-	S123	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
063	SPIRE PSW Ch05-08 . 7+	SPC.I	-	S123	021SS-38	2		PSW-D15	HSSVMCB2	27	312200 J02	063	
075	SPIRE PSW Ch05-08 . 7-	SPC.I	-	S123	021SS-38	2			HSSVMCB2	27	312200 J02	075	
036	SPIRE PSW Ch05-08 . 7gnd	SPC.I	-	S123	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
074	SPIRE PSW Ch05-08 . 8+	SPC.I	-	S123	021SS-38	2		PSW-B15	HSSVMCB2	27	312200 J02	074	
073	SPIRE PSW Ch05-08 . 8-	SPC.I	-	S123	021SS-38	2			HSSVMCB2	27	312200 J02	073	
036	SPIRE PSW Ch05-08 . 8gnd	SPC.I	-	S123	021SS-38	2		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
083	SPIRE PSW Ch09-12 . 9+	SPC.I	-	S124	021SS-38	3		PSW-C14	HSSVMCB2	27	312200 J02	083	
072	SPIRE PSW Ch09-12 . 9-	SPC.I	-	S124	021SS-38	3			HSSVMCB2	27	312200 J02	072	

# Pin Allocation List (Harness)

**Connector:** 211121 P28  
**Item:** CWWUCR  
**EMC-Category:** 2i/Sig H fr CWWFT to SVMCB

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)  
**Location:** 33 / CVW I/F CB Top PFM (CWWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
036	SPIRE PSW Ch09-12 . 9gnd	SPC.I	-	S124	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
095	SPIRE PSW Ch09-12 . 10+	SPC.I	-	S124	021SS-38	3		PSW-D14	HSSVMCB2	27	312200 J02	095	
084	SPIRE PSW Ch09-12 . 10-	SPC.I	-	S124	021SS-38	3			HSSVMCB2	27	312200 J02	084	
036	SPIRE PSW Ch09-12 . 10gnd	SPC.I	-	S124	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
096	SPIRE PSW Ch09-12 . 11+	SPC.I	-	S124	021SS-38	3		PSW-A14	HSSVMCB2	27	312200 J02	096	
085	SPIRE PSW Ch09-12 . 11-	SPC.I	-	S124	021SS-38	3			HSSVMCB2	27	312200 J02	085	
036	SPIRE PSW Ch09-12 . 11gnd	SPC.I	-	S124	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
106	SPIRE PSW Ch09-12 . 12+	SPC.I	-	S124	021SS-38	3		PSW-A13	HSSVMCB2	27	312200 J02	106	
107	SPIRE PSW Ch09-12 . 12-	SPC.I	-	S124	021SS-38	3			HSSVMCB2	27	312200 J02	107	
036	SPIRE PSW Ch09-12 . 12gnd	SPC.I	-	S124	021SS-38	3		Daisy ch to Pin 36 (A1)	HSSVMCB2	27	312200 J02	036	
-	Faraday Link							Cable P01 Faraday Shd con to Busbar tbc					
128	SPIRE PLW B09 GND WIRE A2	SPX.-	-	S492	010B0-30			Con to Cable from P02 GND/Shds	HSSVMCB2	27	312200 J02	128	
086	SPIRE PSW Ch13-16 . 13+	SPC.I	-	S127	021SS-38	4		PSW-B14	HSSVMCB2	27	312200 J02	086	
087	SPIRE PSW Ch13-16 . 13-	SPC.I	-	S127	021SS-38	4			HSSVMCB2	27	312200 J02	087	
036	SPIRE PSW Ch13-16 . 13gnd	SPC.I	-	S127	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	036	3.
097	SPIRE PSW Ch13-16 . 14+	SPC.I	-	S127	021SS-38	4		PSW-C13	HSSVMCB2	27	312200 J02	097	
098	SPIRE PSW Ch13-16 . 14-	SPC.I	-	S127	021SS-38	4			HSSVMCB2	27	312200 J02	098	
036	SPIRE PSW Ch13-16 . 14gnd	SPC.I	-	S127	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	036	3.
108	SPIRE PSW Ch13-16 . 15+	SPC.I	-	S127	021SS-38	4		PSW-B13	HSSVMCB2	27	312200 J02	108	
109	SPIRE PSW Ch13-16 . 15-	SPC.I	-	S127	021SS-38	4			HSSVMCB2	27	312200 J02	109	
036	SPIRE PSW Ch13-16 . 15gnd	SPC.I	-	S127	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	036	3.
116	SPIRE PSW Ch13-16 . 16+	SPC.I	-	S127	021SS-38	4		PSW-D13	HSSVMCB2	27	312200 J02	116	
117	SPIRE PSW Ch13-16 . 16-	SPC.I	-	S127	021SS-38	4			HSSVMCB2	27	312200 J02	117	
036	SPIRE PSW Ch13-16 . 16gnd	SPC.I	-	S127	021SS-38	4		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	036	3.
055	SPIRE PSW Ch17-20 . 17+	SPC.I	-	S128	021SS-38	5		PSW-A12	HSSVMCB2	27	312200 J02	055	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 8)

**Connector:** 211121 P28  
**Item:** CWWUCR  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)  
**Location:** 33 / CVV I/F CB Top PFM (CWWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
066	SPIRE PSW Ch17-20 . 17-	SPC.I	-	S128	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	066	
128	SPIRE PSW Ch17-20 . 17gnd	SPC.I	-	S128	021SS-38	5			HSSVMCB2	27	312200 J02	128	
067	SPIRE PSW Ch17-20 . 18+	SPC.I	-	S128	021SS-38	5		PSW-C12	HSSVMCB2	27	312200 J02	067	
078	SPIRE PSW Ch17-20 . 18-	SPC.I	-	S128	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	078	
128	SPIRE PSW Ch17-20 . 18gnd	SPC.I	-	S128	021SS-38	5			HSSVMCB2	27	312200 J02	128	
076	SPIRE PSW Ch17-20 . 19+	SPC.I	-	S128	021SS-38	5		PSW-D12	HSSVMCB2	27	312200 J02	076	
077	SPIRE PSW Ch17-20 . 19-	SPC.I	-	S128	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	077	
128	SPIRE PSW Ch17-20 . 19gnd	SPC.I	-	S128	021SS-38	5			HSSVMCB2	27	312200 J02	128	
088	SPIRE PSW Ch17-20 . 20+	SPC.I	-	S128	021SS-38	5		PSW-B12	HSSVMCB2	27	312200 J02	088	
089	SPIRE PSW Ch17-20 . 20-	SPC.I	-	S128	021SS-38	5		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	089	
128	SPIRE PSW Ch17-20 . 20gnd	SPC.I	-	S128	021SS-38	5			HSSVMCB2	27	312200 J02	128	
099	SPIRE PSW Ch21-24 . 21+	SPC.I	-	S129	021SS-38	6		PSW-E11	HSSVMCB2	27	312200 J02	099	
100	SPIRE PSW Ch21-24 . 21-	SPC.I	-	S129	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	100	
128	SPIRE PSW Ch21-24 . 21gnd	SPC.I	-	S129	021SS-38	6			HSSVMCB2	27	312200 J02	128	
110	SPIRE PSW Ch21-24 . 22+	SPC.I	-	S129	021SS-38	6		PSW-A11	HSSVMCB2	27	312200 J02	110	
111	SPIRE PSW Ch21-24 . 22-	SPC.I	-	S129	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	111	
128	SPIRE PSW Ch21-24 . 22gnd	SPC.I	-	S129	021SS-38	6			HSSVMCB2	27	312200 J02	128	
118	SPIRE PSW Ch21-24 . 23+	SPC.I	-	S129	021SS-38	6		PSW-C11	HSSVMCB2	27	312200 J02	118	
119	SPIRE PSW Ch21-24 . 23-	SPC.I	-	S129	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	119	
128	SPIRE PSW Ch21-24 . 23gnd	SPC.I	-	S129	021SS-38	6			HSSVMCB2	27	312200 J02	128	
112	SPIRE PSW Ch21-24 . 24+	SPC.I	-	S129	021SS-38	6		PSB-B11	HSSVMCB2	27	312200 J02	112	
120	SPIRE PSW Ch21-24 . 24-	SPC.I	-	S129	021SS-38	6		Daisy ch to Pin 128 (A2)	HSSVMCB2	27	312200 J02	120	
128	SPIRE PSW Ch21-24 . 24gnd	SPC.I	-	S129	021SS-38	6			HSSVMCB2	27	312200 J02	128	
-	Faraday Link							Cable P02 Faraday Shd con to Busbar tbc					
047	SPIRE PLW B09 GND WIRE A3	SPX.-	-	S493	010B0-30			Con to Cable from P03 GND/Shds	HSSVMCB2	27	312200 J02	047	

# Pin Allocation List (Harness)

**Connector:** 211121 P28  
**Item:** CWWUCR  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)  
**Location:** 33 / CVV /IF CB Top PFM (CWWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
090	SPIRE PSW Ch25-28 . 25+	SPC.I	-	S131	021SS-38	7		PSW-E1	HSSVMCB2	27	312200 J02	090	
079	SPIRE PSW Ch25-28 . 25-	SPC.I	-	S131	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	079	3.
128	SPIRE PSW Ch25-28 . 25gnd	SPC.I	-	S131	021SS-38	7			HSSVMCB2	27	312200 J02	128	3.
102	SPIRE PSW Ch25-28 . 26+	SPC.I	-	S131	021SS-38	7			PSW-F1	HSSVMCB2	27	312200 J02	102
101	SPIRE PSW Ch25-28 . 26-	SPC.I	-	S131	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	101	3.
128	SPIRE PSW Ch25-28 . 26gnd	SPC.I	-	S131	021SS-38	7			HSSVMCB2	27	312200 J02	128	3.
092	SPIRE PSW Ch25-28 . 27+	SPC.I	-	S131	021SS-38	7			PSW-T2	HSSVMCB2	27	312200 J02	092
091	SPIRE PSW Ch25-28 . 27-	SPC.I	-	S131	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	091	3.
128	SPIRE PSW Ch25-28 . 27gnd	SPC.I	-	S131	021SS-38	7			HSSVMCB2	27	312200 J02	128	3.
103	SPIRE PSW Ch25-28 . 28+	SPC.I	-	S131	021SS-38	7			PSW-H1	HSSVMCB2	27	312200 J02	103
113	SPIRE PSW Ch25-28 . 28-	SPC.I	-	S131	021SS-38	7		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	113	3.
128	SPIRE PSW Ch25-28 . 28gnd	SPC.I	-	S131	021SS-38	7			HSSVMCB2	27	312200 J02	128	3.
058	SPIRE PSW Ch29-32 . 29+	SPC.I	-	S132	021SS-38	8			PSW-G1	HSSVMCB2	27	312200 J02	058
046	SPIRE PSW Ch29-32 . 29-	SPC.I	-	S132	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	046	3.
128	SPIRE PSW Ch29-32 . 29gnd	SPC.I	-	S132	021SS-38	8			HSSVMCB2	27	312200 J02	128	3.
068	SPIRE PSW Ch29-32 . 30+	SPC.I	-	S132	021SS-38	8			PSW-J1	HSSVMCB2	27	312200 J02	068
057	SPIRE PSW Ch29-32 . 30-	SPC.I	-	S132	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	057	3.
128	SPIRE PSW Ch29-32 . 30gnd	SPC.I	-	S132	021SS-38	8			HSSVMCB2	27	312200 J02	128	3.
069	SPIRE PSW Ch29-32 . 31+	SPC.I	-	S132	021SS-38	8			PSW-H2	HSSVMCB2	27	312200 J02	069
080	SPIRE PSW Ch29-32 . 31-	SPC.I	-	S132	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	080	3.
128	SPIRE PSW Ch29-32 . 31gnd	SPC.I	-	S132	021SS-38	8			HSSVMCB2	27	312200 J02	128	3.
070	SPIRE PSW Ch29-32 . 32+	SPC.I	-	S132	021SS-38	8			PSW-F2	HSSVMCB2	27	312200 J02	070
081	SPIRE PSW Ch29-32 . 32-	SPC.I	-	S132	021SS-38	8		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	081	3.
128	SPIRE PSW Ch29-32 . 32gnd	SPC.I	-	S132	021SS-38	8			HSSVMCB2	27	312200 J02	128	3.
023	SPIRE PSW Ch33-36 . 33+	SPC.I	-	S133	021SS-38	9			PSW-J2	HSSVMCB2	27	312200 J02	023
034	SPIRE PSW Ch33-36 . 33-	SPC.I	-	S133	021SS-38	9		Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	034	3.
004	SPIRE PSW Ch33-36 . 33gnd	SPC.I	-	S133	021SS-38	9			HSSVMCB2	27	312200 J02	004	3.
033	SPIRE PSW Ch33-36 . 34+	SPC.I	-	S133	021SS-38	9			PSW-G2	HSSVMCB2	27	312200 J02	033



**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-5 (of 8)

**Connector:** 211121 P28

**Item:** CWUUCR

**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)

**Location:** 33 / CWV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
045	SPIRE PSW Ch33-36 . 34-	SPC.I -	S133	021SS-38	9				HSSVMCB2	27	312200 J02	045	
004	SPIRE PSW Ch33-36 . 34gnd	SPC.I -	S133	021SS-38	9			Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	004	3.
044	SPIRE PSW Ch33-36 . 35+	SPC.I -	S133	021SS-38	9			PSW-H3	HSSVMCB2	27	312200 J02	044	
056	SPIRE PSW Ch33-36 . 35-	SPC.I -	S133	021SS-38	9				HSSVMCB2	27	312200 J02	056	
004	SPIRE PSW Ch33-36 . 35gnd	SPC.I -	S133	021SS-38	9			Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	004	3.
022	SPIRE PSW Ch33-36 . 36+	SPC.I -	S133	021SS-38	9			PSW-J3	HSSVMCB2	27	312200 J02	022	
032	SPIRE PSW Ch33-36 . 36-	SPC.I -	S133	021SS-38	9				HSSVMCB2	27	312200 J02	032	
004	SPIRE PSW Ch33-36 . 36gnd	SPC.I -	S133	021SS-38	9			Daisy ch to Pin 047 (A3)	HSSVMCB2	27	312200 J02	004	3.
-	Farady Link							Cable P03 Faraday Shd con to Busbar tbc					
004	SPIRE PLW B09 GND WIRE A4	SPX.-	S494	010B0-30				Con to Cable from P04 GND/Shds	HSSVMCB2	27	312200 J02	004	
013	SPIRE PSW Ch37-40 . 37+	SPC.I -	S136	021SS-38	10			PSW-E2	HSSVMCB2	27	312200 J02	013	
012	SPIRE PSW Ch37-40 . 37-	SPC.I -	S136	021SS-38	10				HSSVMCB2	27	312200 J02	012	
004	SPIRE PSW Ch37-40 . 37gnd	SPC.I -	S136	021SS-38	10			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	004	
021	SPIRE PSW Ch37-40 . 38+	SPC.I -	S136	021SS-38	10			PSW-F3	HSSVMCB2	27	312200 J02	021	
020	SPIRE PSW Ch37-40 . 38-	SPC.I -	S136	021SS-38	10				HSSVMCB2	27	312200 J02	020	
004	SPIRE PSW Ch37-40 . 38gnd	SPC.I -	S136	021SS-38	10			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	004	
031	SPIRE PSW Ch37-40 . 39+	SPC.I -	S136	021SS-38	10			PSW-G3	HSSVMCB2	27	312200 J02	031	
043	SPIRE PSW Ch37-40 . 39-	SPC.I -	S136	021SS-38	10				HSSVMCB2	27	312200 J02	043	
004	SPIRE PSW Ch37-40 . 39gnd	SPC.I -	S136	021SS-38	10			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	004	
042	SPIRE PSW Ch37-40 . 40+	SPC.I -	S136	021SS-38	10			PSW-H4	HSSVMCB2	27	312200 J02	042	
054	SPIRE PSW Ch37-40 . 40-	SPC.I -	S136	021SS-38	10				HSSVMCB2	27	312200 J02	054	
004	SPIRE PSW Ch37-40 . 40gnd	SPC.I -	S136	021SS-38	10			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	004	
010	SPIRE PSW Ch41-44 . 41+	SPC.I -	S137	021SS-38	11			PSW-J4	HSSVMCB2	27	312200 J02	010	
011	SPIRE PSW Ch41-44 . 41-	SPC.I -	S137	021SS-38	11				HSSVMCB2	27	312200 J02	011	
004	SPIRE PSW Ch41-44 . 41gnd	SPC.I -	S137	021SS-38	11			Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	004	

# Pin Allocation List (Harness)

**Connector:** 211121 P28  
**Item:** CVVUCR  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)  
**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
019	SPIRE PSW Ch41-44 . 42+	SPC.I	-	S137	021SS-38	11		PSW-E3	HSSVMCB2	27	312200 J02	019	
029	SPIRE PSW Ch41-44 . 42-	SPC.I	-	S137	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	029	
004	SPIRE PSW Ch41-44 . 42gnd	SPC.I	-	S137	021SS-38	11			HSSVMCB2	27	312200 J02	004	
041	SPIRE PSW Ch41-44 . 43+	SPC.I	-	S137	021SS-38	11		PSW-F4	HSSVMCB2	27	312200 J02	041	
030	SPIRE PSW Ch41-44 . 43-	SPC.I	-	S137	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	030	
004	SPIRE PSW Ch41-44 . 43gnd	SPC.I	-	S137	021SS-38	11			HSSVMCB2	27	312200 J02	004	
053	SPIRE PSW Ch41-44 . 44+	SPC.I	-	S137	021SS-38	11		PSW-G4	HSSVMCB2	27	312200 J02	053	
052	SPIRE PSW Ch41-44 . 44-	SPC.I	-	S137	021SS-38	11		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	052	
004	SPIRE PSW Ch41-44 . 44gnd	SPC.I	-	S137	021SS-38	11			HSSVMCB2	27	312200 J02	004	
009	SPIRE PSW Ch45-48 . 45+	SPC.I	-	S138	021SS-38	12		PSW-H5	HSSVMCB2	27	312200 J02	009	
017	SPIRE PSW Ch45-48 . 45-	SPC.I	-	S138	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	017	
004	SPIRE PSW Ch45-48 . 45gnd	SPC.I	-	S138	021SS-38	12			HSSVMCB2	27	312200 J02	004	
018	SPIRE PSW Ch45-48 . 46+	SPC.I	-	S138	021SS-38	12		PSW-E4	HSSVMCB2	27	312200 J02	018	
028	SPIRE PSW Ch45-48 . 46-	SPC.I	-	S138	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	028	
004	SPIRE PSW Ch45-48 . 46gnd	SPC.I	-	S138	021SS-38	12			HSSVMCB2	27	312200 J02	004	
016	SPIRE PSW Ch45-48 . 47+	SPC.I	-	S138	021SS-38	12		PSW-J5	HSSVMCB2	27	312200 J02	016	
027	SPIRE PSW Ch45-48 . 47-	SPC.I	-	S138	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	027	
004	SPIRE PSW Ch45-48 . 47gnd	SPC.I	-	S138	021SS-38	12			HSSVMCB2	27	312200 J02	004	
040	SPIRE PSW Ch45-48 . 48+	SPC.I	-	S138	021SS-38	12		PSW-F5	HSSVMCB2	27	312200 J02	040	
039	SPIRE PSW Ch45-48 . 48-	SPC.I	-	S138	021SS-38	12		Daisy ch to Pin 004 (A4)	HSSVMCB2	27	312200 J02	039	
004	SPIRE PSW Ch45-48 . 48gnd	SPC.I	-	S138	021SS-38	12			HSSVMCB2	27	312200 J02	004	
-	Faraday Link							Cable from P04 Faraday Shd con to Busbar tbc					
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

**Connector:** 211121 P28  
**Item:** CWVUCR

**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)  
**Location:** 33 / CWV I/F CB Top PFM (GWVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
005	Faraday Pins					Connected to Busbar ECR0039tbc					
006	Faraday Pins					Connected to Busbar ECR0039tbc					
007	Faraday Pins					Connected to Busbar ECR0039tbc					
008	Faraday Pins					Connected to Busbar ECR0039tbc					
014	Faraday Pins					Connected to Busbar ECR0039tbc					
015	Faraday Pins					Connected to Busbar ECR0039tbc					
024	Faraday Pins					Connected to Busbar ECR0039tbc					
025	Faraday Pins					Connected to Busbar ECR0039tbc					
035	Faraday Pins					Connected to Busbar ECR0039tbc					
082	Faraday Pins					Connected to Busbar ECR0039tbc					
093	Faraday Pins					Connected to Busbar ECR0039tbc					
094	Faraday Pins					Connected to Busbar ECR0039tbc					
104	Faraday Pins					Connected to Busbar ECR0039tbc					
105	Faraday Pins					Connected to Busbar ECR0039tbc					
114	Faraday Pins					Connected to Busbar ECR0039tbc					
115	Faraday Pins					Connected to Busbar ECR0039tbc					
121	Faraday Pins					Connected to Busbar ECR0039tbc					
122	Faraday Pins					Connected to Busbar ECR0039tbc					
123	Faraday Pins					Connected to Busbar ECR0039tbc					
124	Faraday Pins					Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

Connector: 211121 P28

Item: CWUUCR

EMC-Category: 2/Sig H fr CWVFT to SVMCB

Function: UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)

Location: 33 / CVV I/F CB Top PFM (CWUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	CH Connector Housing							CH isolated from Faraday Shds No Overall Shd at junction side					



# Pin Allocation List (Harness)

Connector: 211121 P34

Item: CVUUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)  
Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
			Ch. ID	Wiring	Shd						
029	SPIRE SorptPumpTemp(N) . I+	S3E.- -	S234	041SS-38	1	Cable S234 to S238 Shd con together	HSSVMCB3	312300 J06	029		
041	SPIRE SorptPumpTemp(N) . V+	S3E.- -	S234	041SS-38	1		HSSVMCB3	312300 J06	041		
042	SPIRE SorptPumpTemp(N) . V-	S3E.- -	S234	041SS-38	1		HSSVMCB3	312300 J06	042		
030	SPIRE SorptPumpTemp(N) . I-	S3E.- -	S234	041SS-38	1		HSSVMCB3	312300 J06	030		
031	SPIRE SorptPumpTemp(N) . SHD01	S3E.- -	S234	041SS-38	1		HSSVMCB3	312300 J06	031		
077	SPIRE EvaporatorTemp(N) . I+	S3E.- -	S235	041SS-38	2	Cable S234 to S238 Shd con together	HSSVMCB3	312300 J06	077		
066	SPIRE EvaporatorTemp(N) . V+	S3E.- -	S235	041SS-38	2		HSSVMCB3	312300 J06	066		
065	SPIRE EvaporatorTemp(N) . V-	S3E.- -	S235	041SS-38	2		HSSVMCB3	312300 J06	065		
076	SPIRE EvaporatorTemp(N) . I-	S3E.- -	S235	041SS-38	2		HSSVMCB3	312300 J06	076		
054	SPIRE EvaporatorTemp(N) . SHD02	S3E.- -	S235	041SS-38	2		HSSVMCB3	312300 J06	054		
053	SPIRE SorptPumpSwTemp(N) . I+	S3E.- -	S236	041SS-38	3	Cable S234 to S238 Shd con together	HSSVMCB3	312300 J06	053		
064	SPIRE SorptPumpSwTemp(N) . V+	S3E.- -	S236	041SS-38	3		HSSVMCB3	312300 J06	064		
063	SPIRE SorptPumpSwTemp(N) . V-	S3E.- -	S236	041SS-38	3		HSSVMCB3	312300 J06	063		
052	SPIRE SorptPumpSwTemp(N) . I-	S3E.- -	S236	041SS-38	3		HSSVMCB3	312300 J06	052		
075	SPIRE SorptPumpSwTemp(N) . SHD03	S3E.- -	S236	041SS-38	3		HSSVMCB3	312300 J06	075		
050	SPIRE EvaporSwTemp(N) . I+	S3E.- -	S237	041SS-38	4	Cable S234 to S238 Shd con together	HSSVMCB3	312300 J06	050		
062	SPIRE EvaporSwTemp(N) . V+	S3E.- -	S237	041SS-38	4		HSSVMCB3	312300 J06	062		
051	SPIRE EvaporSwTemp(N) . V-	S3E.- -	S237	041SS-38	4		HSSVMCB3	312300 J06	051		
061	SPIRE EvaporSwTemp(N) . I-	S3E.- -	S237	041SS-38	4		HSSVMCB3	312300 J06	061		
039	SPIRE EvaporSwTemp(N) . SHD04	S3E.- -	S237	041SS-38	4		HSSVMCB3	312300 J06	039		
011	SPIRE ThermShuntTemp(N) . I+A	S3E.- -	S238	041SS-38	5	Cable S234 to S238 Shd con together	HSSVMCB3	312300 J06	011		
019	SPIRE ThermShuntTemp(N) . V+B	S3E.- -	S238	041SS-38	5		HSSVMCB3	312300 J06	019		
018	SPIRE ThermShuntTemp(N) . V-A	S3E.- -	S238	041SS-38	5		HSSVMCB3	312300 J06	018		
010	SPIRE ThermShuntTemp(N) . I-B	S3E.- -	S238	041SS-38	5		HSSVMCB3	312300 J06	010		
020	SPIRE ThermShuntTemp(N) . SHD05	S3E.- -	S238	041SS-38	5		HSSVMCB3	312300 J06	020		
006	SPIRE SorptPumpHtr(N) . I+A	S3F.- -	S239	040B0-30			HSSVMCB3	312300 J06	006		
013	SPIRE SorptPumpHtr(N) . I+B	S3F.- -	S239	040B0-30			HSSVMCB3	312300 J06	013		
005	SPIRE SorptPumpHtr(N) . I-A	S3F.- -	S239	040B0-30			HSSVMCB3	312300 J06	005		
012	SPIRE SorptPumpHtr(N) . I-B	S3F.- -	S239	040B0-30			HSSVMCB3	312300 J06	012		

# Pin Allocation List (Harness)

**Connector:** 211121 P34  
**Item:** CWUCR  
**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)  
**Location:** 33 / CWV / IF CB Top PFM (CWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
022	SPIRE SorptPumpSwHtr(N) . I+A	S3F.-	-	S240	040B0-30				HSSVMCB3	27	312300 J06	022	
033	SPIRE SorptPumpSwHtr(N) . I+B	S3F.-	-	S240	040B0-30				HSSVMCB3	27	312300 J06	033	
021	SPIRE SorptPumpSwHtr(N) . I-A	S3F.-	-	S240	040B0-30				HSSVMCB3	27	312300 J06	021	
032	SPIRE SorptPumpSwHtr(N) . I-B	S3F.-	-	S240	040B0-30				HSSVMCB3	27	312300 J06	032	
055	SPIRE EvaporSwHtr(N) . I+A	S3F.-	-	S241	040B0-30				HSSVMCB3	27	312300 J06	055	
056	SPIRE EvaporSwHtr(N) . I+B	S3F.-	-	S241	040B0-30				HSSVMCB3	27	312300 J06	056	
043	SPIRE EvaporSwHtr(N) . I-A	S3F.-	-	S241	040B0-30				HSSVMCB3	27	312300 J06	043	
044	SPIRE EvaporSwHtr(N) . I-B	S3F.-	-	S241	040B0-30				HSSVMCB3	27	312300 J06	044	
004	SPIRE FPU FC Faraday . SFF	SFF.-	-	S249	010B0-30			Cable P19 Faraday Shd con to Busbar tbc	HSSVMCB3	27	312300 J06	004	3. 3. 3.
111	SPIRE Spectr4%Temp (N) . I+	SCA.-	-	S242	041SS-38	9			HSSVMCB3	27	312300 J06	111	
120	SPIRE Spectr4%Temp (N) . V+	SCA.-	-	S242	041SS-38	9			HSSVMCB3	27	312300 J06	120	
128	SPIRE Spectr4%Temp (N) . V-	SCA.-	-	S242	041SS-38	9			HSSVMCB3	27	312300 J06	128	
112	SPIRE Spectr4%Temp (N) . I-	SCA.-	-	S242	041SS-38	9			HSSVMCB3	27	312300 J06	112	
121	SPIRE Spectr4%Temp (N) . SHD01	SCA.-	-	S242	041SS-38	9		Cable S242 to S244 Shd con together	HSSVMCB3	27	312300 J06	121	
091	SPIRE Spectr2%Temp (N) . I+	SCA.-	-	S243	041SS-38	10			HSSVMCB3	27	312300 J06	091	
092	SPIRE Spectr2%Temp (N) . V+	SCA.-	-	S243	041SS-38	10			HSSVMCB3	27	312300 J06	092	
081	SPIRE Spectr2%Temp (N) . V-	SCA.-	-	S243	041SS-38	10			HSSVMCB3	27	312300 J06	081	
080	SPIRE Spectr2%Temp (N) . I-	SCA.-	-	S243	041SS-38	10			HSSVMCB3	27	312300 J06	080	
093	SPIRE Spectr2%Temp (N) . SHD02	SCA.-	-	S243	041SS-38	10		Cable S242 to S244 Shd con together	HSSVMCB3	27	312300 J06	093	
114	SPIRE SpStimFlanTemp(N) . I+	SCA.-	-	S244	041SS-38	11			HSSVMCB3	27	312300 J06	114	
113	SPIRE SpStimFlanTemp(N) . V+	SCA.-	-	S244	041SS-38	11			HSSVMCB3	27	312300 J06	113	
103	SPIRE SpStimFlanTemp(N) . V-	SCA.-	-	S244	041SS-38	11			HSSVMCB3	27	312300 J06	103	
104	SPIRE SpStimFlanTemp(N) . I-	SCA.-	-	S244	041SS-38	11			HSSVMCB3	27	312300 J06	104	
102	SPIRE SpStimFlanTemp(N) . SHD03	SCA.-	-	S244	041SS-38	11		Cable S242 to S244 Shd con together	HSSVMCB3	27	312300 J06	102	
035	SPIRE Spectr4%Heater (N) . I+A	SCB.-	-	S245	040B0-30				HSSVMCB3	27	312300 J06	035	
024	SPIRE Spectr4%Heater (N) . I+B	SCB.-	-	S245	040B0-30				HSSVMCB3	27	312300 J06	024	
034	SPIRE Spectr4%Heater (N) . I-A	SCB.-	-	S245	040B0-30				HSSVMCB3	27	312300 J06	034	

# Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 5)

Connector: 211121 P34

Item: CVUUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)  
Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal Pos.			Shd	Cable Twist						
023	SPIRE Spectr4%Heater (N) . I-B		SCB.-	-	S245	040B0-30				HSSVMCB3	27	312300 J06	023	
046	SPIRE Spectr2%Heater (N) . I+A		SCB.-	-	S246	040B0-30				HSSVMCB3	27	312300 J06	046	
058	SPIRE Spectr2%Heater (N) . I+B		SCB.-	-	S246	040B0-30				HSSVMCB3	27	312300 J06	058	
045	SPIRE Spectr2%Heater (N) . I-A		SCB.-	-	S246	040B0-30				HSSVMCB3	27	312300 J06	045	
057	SPIRE Spectr2%Heater (N) . I-B		SCB.-	-	S246	040B0-30				HSSVMCB3	27	312300 J06	057	
047	SPIRE FPU FSS Faraday . SFF		SFF.-	-	S251	010B0-30			Cable P21 Faraday Shd con to Busbar tbc	HSSVMCB3	27	312300 J06	047	3. 3. 3.
089	SPIRE FilterTemp(N) . I+		STA.-	-	S253	041SS-38	19			HSSVMCB3	27	312300 J06	089	
100	SPIRE FilterTemp(N) . V+		STA.-	-	S253	041SS-38	19			HSSVMCB3	27	312300 J06	100	
099	SPIRE FilterTemp(N) . V-		STA.-	-	S253	041SS-38	19			HSSVMCB3	27	312300 J06	099	
088	SPIRE FilterTemp(N) . I-		STA.-	-	S253	041SS-38	19			HSSVMCB3	27	312300 J06	088	
101	SPIRE FilterTemp(N) . SHD06		STA.-	-	S253	041SS-38	19		Cable S253 to S258 Shd con together	HSSVMCB3	27	312300 J06	101	
118	SPIRE SpectDetBoxTemp(N) . I+		STA.-	-	S254	041SS-38	14			HSSVMCB3	27	312300 J06	118	
125	SPIRE SpectDetBoxTemp(N) . V+		STA.-	-	S254	041SS-38	14			HSSVMCB3	27	312300 J06	125	
126	SPIRE SpectDetBoxTemp(N) . V-		STA.-	-	S254	041SS-38	14			HSSVMCB3	27	312300 J06	126	
119	SPIRE SpectDetBoxTemp(N) . I-		STA.-	-	S254	041SS-38	14			HSSVMCB3	27	312300 J06	119	
110	SPIRE SpectDetBoxTemp(N) . SHD01		STA.-	-	S254	041SS-38	14		Cable S253 to S258 Shd con together	HSSVMCB3	27	312300 J06	110	
123	SPIRE PhotomDetBoxTemp(N) . I+		STA.-	-	S255	041SS-38	15			HSSVMCB3	27	312300 J06	123	
116	SPIRE PhotomDetBoxTemp(N) . V+		STA.-	-	S255	041SS-38	15			HSSVMCB3	27	312300 J06	116	
117	SPIRE PhotomDetBoxTemp(N) . V-		STA.-	-	S255	041SS-38	15			HSSVMCB3	27	312300 J06	117	
124	SPIRE PhotomDetBoxTemp(N) . I-		STA.-	-	S255	041SS-38	15			HSSVMCB3	27	312300 J06	124	
108	SPIRE PhotomDetBoxTemp(N) . SHD02		STA.-	-	S255	041SS-38	15		Cable S253 to S258 Shd con together	HSSVMCB3	27	312300 J06	108	
106	SPIRE OptSubbenchTemp(N) . I+		STA.-	-	S256	041SS-38	16			HSSVMCB3	27	312300 J06	106	
107	SPIRE OptSubbenchTemp(N) . V+		STA.-	-	S256	041SS-38	16			HSSVMCB3	27	312300 J06	107	
122	SPIRE OptSubbenchTemp(N) . V-		STA.-	-	S256	041SS-38	16			HSSVMCB3	27	312300 J06	122	
115	SPIRE OptSubbenchTemp(N) . I-		STA.-	-	S256	041SS-38	16			HSSVMCB3	27	312300 J06	115	
105	SPIRE OptSubbenchTemp(N) . SHD03		STA.-	-	S256	041SS-38	16		Cable S253 to S258 Shd con together	HSSVMCB3	27	312300 J06	105	
097	SPIRE FPUInpBaffleTemp(N) . I+		STA.-	-	S257	041SS-38	17			HSSVMCB3	27	312300 J06	097	



# Pin Allocation List (Harness)

Connector: 211121 P34

Item: CVUUCR

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
086	SPIRE FPUInpBaffleTmp(N) . V+	STA-	-	S257	041SS-38	17		Cable S253 to S258 Shd con together	HSSVMCB3	27	312300 J06	086	
087	SPIRE FPUInpBaffleTmp(N) . V-	STA-	-	S257	041SS-38	17			HSSVMCB3	27	312300 J06	087	
098	SPIRE FPUInpBaffleTmp(N) . I-	STA-	-	S257	041SS-38	17			HSSVMCB3	27	312300 J06	098	
109	SPIRE FPUInpBaffleTmp(N) . SHD04	STA-	-	S257	041SS-38	17			HSSVMCB3	27	312300 J06	109	
073	SPIRE BSM/SOB I/FTmp(N) . I+	STA-	-	S258	041SS-38	18		Cable S253 to S258 Shd con together	HSSVMCB3	27	312300 J06	073	
074	SPIRE BSM/SOB I/FTmp(N) . V+	STA-	-	S258	041SS-38	18			HSSVMCB3	27	312300 J06	074	
085	SPIRE BSM/SOB I/FTmp(N) . V-	STA-	-	S258	041SS-38	18			HSSVMCB3	27	312300 J06	085	
084	SPIRE BSM/SOB I/FTmp(N) . I-	STA-	-	S258	041SS-38	18			HSSVMCB3	27	312300 J06	084	
096	SPIRE BSM/SOB I/FTmp(N) . SHD05	STA-	-	S258	041SS-38	18			HSSVMCB3	27	312300 J06	096	
079	SPIRE PTC Hr(N) . I+A	STB-	-	S259	041BS-30	20		Cable S259Shd	HSSVMCB3	27	312300 J06	079	
078	SPIRE PTC Hr(N) . I+B	STB-	-	S259	041BS-30	20			HSSVMCB3	27	312300 J06	078	
068	SPIRE PTC Hr(N) . I-A	STB-	-	S259	041BS-30	20			HSSVMCB3	27	312300 J06	068	
067	SPIRE PTC Hr(N) . I-B	STB-	-	S259	041BS-30	20			HSSVMCB3	27	312300 J06	067	
090	SPIRE PTC Hr(N) . SHD07	STB-	-	S259	041BS-30	20			HSSVMCB3	27	312300 J06	090	
094	SPIRE FPU TP Faraday . SFF	SFF-	-	S250	010B0-30			Cable P23 Faraday Shd con to Busbar tbc	HSSVMCB3	27	312300 J06	094	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					
004	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					
015	Faraday Pins							Connected to Busbar ECR0039tbc					

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-5 (of 5)

Connector: 211121 P34

Item: CVWUCR

EMC-Category: 2/Sig H fr CVWFT to SVMCB

Function: UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)  
Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
025	Faraday Pins						Connected to Busbar ECR0039tbc					
036	Faraday Pins						Connected to Busbar ECR0039tbc					
047	Faraday Pins						Connected to Busbar ECR0039tbc					
059	Faraday Pins						Connected to Busbar ECR0039tbc					
070	Faraday Pins						Connected to Busbar ECR0039tbc					
082	Faraday Pins						Connected to Busbar ECR0039tbc					
094	Faraday Pins						Connected to Busbar ECR0039tbc					
127	Faraday Pins						Connected to Busbar ECR0039tbc					
-	Connector Housing to outer overall shield						CH isolated from Farady Shds					3.
-	Insulating Jacket						Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd						Bundle Overall Shd con to Backshell					3.
-	to inner overall shield											





# Pin Allocation List

(Harness)

**Connector:** 211121 P30

**Item:** CVUUCR

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** UFTThr. 283.0° (SPIRE XS-11 FPU 25,27,29)  
**Location:** 33 / CVV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
051	SPIRE ChopSensor1&2(N) . 1	SBA.-	-	S041	021SS-38	1		Cable S41, 43, 45, 48 Shd con together	HSSVMCB3	27	312300 J04	051	
040	SPIRE ChopSensor1&2(N) . 2	SBA.-	-	S041	021SS-38	1			HSSVMCB3	27	312300 J04	040	
039	SPIRE ChopSensor1&2(N) . SHD01	SBA.-	-	S041	021SS-38	1			HSSVMCB3	27	312300 J04	039	
028	SPIRE ChopSensor3-5(N) . 3	SBB.-	-	S043	031BS-38	3		Cable S41, 43, 45, 48 Shd con together	HSSVMCB3	27	312300 J04	028	
017	SPIRE ChopSensor3-5(N) . 4	SBB.-	-	S043	031BS-38	3			HSSVMCB3	27	312300 J04	017	
016	SPIRE ChopSensor3-5(N) . 5	SBB.-	-	S043	031BS-38	3			HSSVMCB3	27	312300 J04	016	
027	SPIRE ChopSensor3-5(N) . SHD03	SBB.-	-	S043	031BS-38	3			HSSVMCB3	27	312300 J04	027	
049	SPIRE JiggleSensor1&2(N) . 1	SBA.-	-	S045	021SS-38	2		Cable S41, 43, 45, 48 Shd con together	HSSVMCB3	27	312300 J04	049	
050	SPIRE JiggleSensor1&2(N) . 2	SBA.-	-	S045	021SS-38	2			HSSVMCB3	27	312300 J04	050	
038	SPIRE JiggleSensor1&2(N) . SHD02	SBA.-	-	S045	021SS-38	2			HSSVMCB3	27	312300 J04	038	
015	SPIRE JiggleSensor3-5(N) . 3	SBB.-	-	S048	031BS-38	4		Cable S41, 43, 45, 48 Shd con together	HSSVMCB3	27	312300 J04	015	
025	SPIRE JiggleSensor3-5(N) . 4	SBB.-	-	S048	031BS-38	4			HSSVMCB3	27	312300 J04	025	
037	SPIRE JiggleSensor3-5(N) . 5	SBB.-	-	S048	031BS-38	4			HSSVMCB3	27	312300 J04	037	
026	SPIRE JiggleSensor3-5(N) . SHD04	SBB.-	-	S048	031BS-38	4			HSSVMCB3	27	312300 J04	026	
086	SPIRE BSMTemp(N) . I+	SBC.-	-	S103	041SS-38	5		Cable S103 Shd	HSSVMCB3	27	312300 J04	086	
097	SPIRE BSMTemp(N) . V+	SBC.-	-	S103	041SS-38	5			HSSVMCB3	27	312300 J04	097	
098	SPIRE BSMTemp(N) . V-	SBC.-	-	S103	041SS-38	5			HSSVMCB3	27	312300 J04	098	
087	SPIRE BSMTemp(N) . I-	SBC.-	-	S103	041SS-38	5			HSSVMCB3	27	312300 J04	087	
075	SPIRE BSMTemp(N) . SHD05	SBC.-	-	S103	041SS-38	5			HSSVMCB3	27	312300 J04	075	
048	SPIRE P-Cal Htr(N) . I+A	SBD.-	-	S260	041BS-30	6		Cable S260 Shd	HSSVMCB3	27	312300 J04	048	
071	SPIRE P-Cal Htr(N) . I+B	SBD.-	-	S260	041BS-30	6			HSSVMCB3	27	312300 J04	071	
060	SPIRE P-Cal Htr(N) . I-A	SBD.-	-	S260	041BS-30	6			HSSVMCB3	27	312300 J04	060	
059	SPIRE P-Cal Htr(N) . I-B	SBD.-	-	S260	041BS-30	6			HSSVMCB3	27	312300 J04	059	
036	SPIRE P-Cal Htr(N) . SHD06	SBD.-	-	S260	041BS-30	6			HSSVMCB3	27	312300 J04	036	
108	SPIRE BSMLchLchCont(N) . 1	SBE.-	-	S261	021SS-38	7			Cable S261 Shd	HSSVMCB3	27	312300 J04	108
116	SPIRE BSMLchLchCont(N) . 2	SBE.-	-	S261	021SS-38	7		HSSVMCB3		27	312300 J04	116	
107	SPIRE BSMLchLchCont(N) . SHD07	SBE.-	-	S261	021SS-38	7		HSSVMCB3		27	312300 J04	107	

# Pin Allocation List (Harness)

Connector: 211121 P30

Item: CVUUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)

Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
105	SPIRE BSMLatchDrive(N) . SUP	SBF.-	-	S262	021BS-30	8			HSSVMCB3	27	312300 J04	105	
115	SPIRE BSMLatchDrive(N) . RTN	SBF.-	-	S262	021BS-30	8			HSSVMCB3	27	312300 J04	115	
106	SPIRE BSMLatchDrive(N) . SHD08	SBF.-	-	S262	021BS-30	8		Cable S262 Shd	HSSVMCB3	27	312300 J04	106	
072	SPIRE ChopMotDrive(N) . 1	SBG.-	-	S263	041BS-30	9			HSSVMCB3	27	312300 J04	072	
061	SPIRE ChopMotDrive(N) . 2	SBG.-	-	S263	041BS-30	9			HSSVMCB3	27	312300 J04	061	
062	SPIRE ChopMotDrive(N) . 3	SBG.-	-	S263	041BS-30	9			HSSVMCB3	27	312300 J04	062	
074	SPIRE ChopMotDrive(N) . 4	SBG.-	-	S263	041BS-30	9			HSSVMCB3	27	312300 J04	074	
073	SPIRE ChopMotDrive(N) . SHD09	SBG.-	-	S263	041BS-30	9		Cable S263, 264Shd con together	HSSVMCB3	27	312300 J04	073	
083	SPIRE JiggleMotDrive(N) . 1	SBG.-	-	S264	041BS-30	10			HSSVMCB3	27	312300 J04	083	
095	SPIRE JiggleMotDrive(N) . 2	SBG.-	-	S264	041BS-30	10			HSSVMCB3	27	312300 J04	095	
096	SPIRE JiggleMotDrive(N) . 3	SBG.-	-	S264	041BS-30	10			HSSVMCB3	27	312300 J04	096	
085	SPIRE JiggleMotDrive(N) . 4	SBG.-	-	S264	041BS-30	10			HSSVMCB3	27	312300 J04	085	
084	SPIRE JiggleMotDrive(N) . SHD10	SBG.-	-	S264	041BS-30	10		Cable S263, 264Shd con together	HSSVMCB3	27	312300 J04	084	
082	SPIRE FPU BSM Faraday . SFF	SFF.-	-	S252	010B0-30			Cable P25 Faraday Shd con to Busbar ECR0039tbc	HSSVMCB3	27	312300 J04	082	3. 3. 3.
117	SPIRE SMECLLch#1Conf(N) . 1+	SME.-	-	S265	021BS-30	16			HSSVMCB3	27	312300 J04	117	
118	SPIRE SMECLLch#1Conf(N) . 1-	SME.-	-	S265	021BS-30	16			HSSVMCB3	27	312300 J04	118	
109	SPIRE SMECLLch#1Conf(N) . SHD06	SME.-	-	S265	021BS-30	16		Cable S265 Shd (con to Faraday I) (A)	HSSVMCB3	27	312300 J04	109	
111	SPIRE SMECLLch#2Conf(N) . 2+	SME.-	-	S266	021BS-30	17			HSSVMCB3	27	312300 J04	111	
119	SPIRE SMECLLch#2Conf(N) . 2-	SME.-	-	S266	021BS-30	17			HSSVMCB3	27	312300 J04	119	
110	SPIRE SMECLLch#2Conf(N) . SHD07	SME.-	-	S266	021BS-30	17		Cable S266 Shd (con to Faraday I) (A)	HSSVMCB3	27	312300 J04	110	
067	SPIRE SMECLL#1Pwr1(A/N) . S1	SMF.-	-	S267	021BS-30	18			HSSVMCB3	27	312300 J04	067	
066	SPIRE SMECLL#1Pwr1(A/N) . R1	SMF.-	-	S267	021BS-30	18			HSSVMCB3	27	312300 J04	066	

# Pin Allocation List (Harness)

Connector: 211121 P30

Item: CVUUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFTThr. 283.0° (SPIRE XS-11 FPU 25,27,29)  
Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Diagram	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
			Circuit	Signal Pos.			Shd	Cable Twist						
078	SPIRE SMECLL#1Pwr1/A(N) . SHD08		SMF.-	-	S267	021BS-30	18		Cable S267 to 270 Shd con together (B)	HSSVMCB3	27	312300 J04	078	
069	SPIRE SMECLL#1Pwr2/B(N) . S2		SMF.-	-	S268	021BS-30	19			HSSVMCB3	27	312300 J04	069	
068	SPIRE SMECLL#1Pwr2/B(N) . R2		SMF.-	-	S268	021BS-30	19			HSSVMCB3	27	312300 J04	068	
080	SPIRE SMECLL#1Pwr2/B(N) . SHD09		SMF.-	-	S268	021BS-30	19		Cable S267 to 270 Shd con together (B)	HSSVMCB3	27	312300 J04	080	
090	SPIRE SMECLL#2Pwr1/A(N) . S1		SMF.-	-	S269	021BS-30	20			HSSVMCB3	27	312300 J04	090	
091	SPIRE SMECLL#2Pwr1/A(N) . R1		SMF.-	-	S269	021BS-30	20			HSSVMCB3	27	312300 J04	091	
079	SPIRE SMECLL#2Pwr1/A(N) . SHD10		SMF.-	-	S269	021BS-30	20		Cable S267 to 270 Shd con together (B)	HSSVMCB3	27	312300 J04	079	
092	SPIRE SMECLL#2Pwr2/B(N) . S2		SMF.-	-	S270	021BS-30	21			HSSVMCB3	27	312300 J04	092	
093	SPIRE SMECLL#2Pwr2/B(N) . R2		SMF.-	-	S270	021BS-30	21			HSSVMCB3	27	312300 J04	093	
081	SPIRE SMECLL#2Pwr2/B(N) . SHD11		SMF.-	-	S270	021BS-30	21		Cable S267 to 270 Shd con together (B)	HSSVMCB3	27	312300 J04	081	
088	SPIRE SMECTemp(N) . I+		SMC.-	-	S271	041SS-38	14			HSSVMCB3	27	312300 J04	088	
099	SPIRE SMECTemp(N) . V+		SMC.-	-	S271	041SS-38	14			HSSVMCB3	27	312300 J04	099	
100	SPIRE SMECTemp(N) . V-		SMC.-	-	S271	041SS-38	14			HSSVMCB3	27	312300 J04	100	
089	SPIRE SMECTemp(N) . I-		SMC.-	-	S271	041SS-38	14			HSSVMCB3	27	312300 J04	089	
077	SPIRE SMECTemp(N) . SHD04		SMC.-	-	S271	041SS-38	14		Cable S271,272 Shd con together (C)	HSSVMCB3	27	312300 J04	077	
054	SPIRE SMEC/SOB I/FTmp(N) . I+		SMC.-	-	S272	041SS-38	15			HSSVMCB3	27	312300 J04	054	
065	SPIRE SMEC/SOB I/FTmp(N) . V+		SMC.-	-	S272	041SS-38	15			HSSVMCB3	27	312300 J04	065	
064	SPIRE SMEC/SOB I/FTmp(N) . V-		SMC.-	-	S272	041SS-38	15			HSSVMCB3	27	312300 J04	064	
053	SPIRE SMEC/SOB I/FTmp(N) . I-		SMC.-	-	S272	041SS-38	15			HSSVMCB3	27	312300 J04	053	
076	SPIRE SMEC/SOB I/FTmp(N) . SHD05		SMC.-	-	S272	041SS-38	15		Cable S271,272 Shd con together (C)	HSSVMCB3	27	312300 J04	076	
101	SPIRE SMECLVDTPrICIPw(N) . P		SMA.-	-	S273	021BS-30	11			HSSVMCB3	27	312300 J04	101	
102	SPIRE SMECLVDTPrICIPw(N) . N		SMA.-	-	S273	021BS-30	11			HSSVMCB3	27	312300 J04	102	

# Pin Allocation List (Harness)

**Connector:** 211121 P30

**Item:** CVVUCR

**EMC-Category:** 2I/Sig H fr CVVFT to SVMCB

**Function:** UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)

**Location:** 33 / CVV I/F CB Top PFM (CVVUCR)

**Conn.-Type:** 197-012P24-35S (Plug)

**Backshell:** G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
112	SPIRE SMECLVDTPrIPw(N) . SHD01	SMA	-	S273	021BS-30	11		Cable S273 to 275 Shd con together (D)	HSSVMCB3	27	312300 J04	112	
127	SPIRE SMECLVDTSC#1Sg(N) . P	SMB	-	S274	021BS-30	12			HSSVMCB3	27	312300 J04	127	
120	SPIRE SMECLVDTSC#1Sg(N) . N	SMB	-	S274	021BS-30	12			HSSVMCB3	27	312300 J04	120	
128	SPIRE SMECLVDTSC#1Sg(N) . SHD02	SMB	-	S274	021BS-30	12		Cable S273 to 275 Shd con together (D)	HSSVMCB3	27	312300 J04	128	
114	SPIRE SMECLVDTSC#2Sg(N) . P	SMB	-	S275	021BS-30	13			HSSVMCB3	27	312300 J04	114	
113	SPIRE SMECLVDTSC#2Sg(N) . N	SMB	-	S275	021BS-30	13			HSSVMCB3	27	312300 J04	113	
121	SPIRE SMECLVDTSC#2Sg(N) . SHD03	SMB	-	S275	021BS-30	13		Cable S273 to 275 Shd con together (D)	HSSVMCB3	27	312300 J04	121	
104	SPIRE FPU SMEC Faraday . SFF	SFF	-	S300	010B0-30			Cable P27 Faraday Shd con to Busbar ECR0039tbc	HSSVMCB3	27	312300 J04	104	3. 3. 3.
012	SPIRE SMEC Drv Coil (N) . I+	SMD	-	S276	021BS-30	22			HSSVMCB3	27	312300 J04	012	
005	SPIRE SMEC Drv Coil (N) . I-	SMD	-	S276	021BS-30	22			HSSVMCB3	27	312300 J04	005	
013	SPIRE SMEC Drv Coil (N) . SHD01	SMD	-	S276	021BS-30	22		Cable S276, 277 con together (A)	HSSVMCB3	27	312300 J04	013	
022	SPIRE SMEC Drv Coil (Rob) (N) . I+	SMD	-	S277	021BS-30	23			HSSVMCB3	27	312300 J04	022	
007	SPIRE SMEC Drv Coil (Rob) (N) . I-	SMD	-	S277	021BS-30	23			HSSVMCB3	27	312300 J04	007	
013	SPIRE SMEC Drv Coil (Rob) (N) . SHD02	SMD	-	S277	021BS-30	23		Cable S276, 277 con together (A)	HSSVMCB3	27	312300 J04	013	
014	SPIRE SMEC Drv Sense (N) . Sen+	SMG	-	S278	021BS-38	24			HSSVMCB3	27	312300 J04	014	
024	SPIRE SMEC Drv Sense (N) . Sen-	SMG	-	S278	021BS-38	24			HSSVMCB3	27	312300 J04	024	
023	SPIRE SMEC Drv Sense (N) . SHD03	SMG	-	S278	021BS-38	24		Cable S278 Shd	HSSVMCB3	27	312300 J04	023	
009	SPIRE SMEC PosSeLEDPr(N) . S	SMH	-	S279	021BS-38	25			HSSVMCB3	27	312300 J04	009	
002	SPIRE SMEC PosSeLEDPr(N) . R	SMH	-	S279	021BS-38	25			HSSVMCB3	27	312300 J04	002	
003	SPIRE SMEC PosSeLEDPr(N) . SHD04	SMH	-	S279	021BS-38	25		Cable S279 Shd	HSSVMCB3	27	312300 J04	003	



# Pin Allocation List (Harness)

Connector: 211121 P30

Item: CVWUCR

EMC-Category: 2I/Sig H fr CVVFT to SVMCB

Function: UFThr. 283,0° (SPIRE XS-11 FPU 25,27,29)

Location: 33 / CVW I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
011	SPIRE SMEC PosSensPwr(N) . S	SMH.-	-	S280	021BS-38	26			HSSVMCB3	27	312300 J04	011	
004	SPIRE SMEC PosSensPwr(N) . R	SMH.-	-	S280	021BS-38	26			HSSVMCB3	27	312300 J04	004	
010	SPIRE SMEC PosSensPwr(N) . SHD05	SMH.-	-	S280	021BS-38	26		Cable S280 Shd	HSSVMCB3	27	312300 J04	010	
018	SPIRE SMEC PosPhD#1(N) . I+	SMJ.-	-	S281	021SS-38	27			HSSVMCB3	27	312300 J04	018	
019	SPIRE SMEC PosPhD#1(N) . I-	SMJ.-	-	S281	021SS-38	27			HSSVMCB3	27	312300 J04	019	
029	SPIRE SMEC PosPhD#1(N) . SHD06	SMJ.-	-	S281	021SS-38	27		Cable S281, 283,285 Shd con together (B)	HSSVMCB3	27	312300 J04	029	
056	SPIRE SMEC PosPhD#1FB(N) . S	SMK.-	-	S282	021SS-38	30			HSSVMCB3	27	312300 J04	056	
055	SPIRE SMEC PosPhD#1FB(N) . R	SMK.-	-	S282	021SS-38	30			HSSVMCB3	27	312300 J04	055	
044	SPIRE SMEC PosPhD#1FB(N) . SHD09	SMK.-	-	S282	021SS-38	30		Cable S282, 284,286 Shd con together (C)	HSSVMCB3	27	312300 J04	044	
042	SPIRE SMEC PosPhD#2(N) . I+	SMJ.-	-	S283	021SS-38	28			HSSVMCB3	27	312300 J04	042	
041	SPIRE SMEC PosPhD#2(N) . I-	SMJ.-	-	S283	021SS-38	28			HSSVMCB3	27	312300 J04	041	
030	SPIRE SMEC PosPhD#2(N) . SHD07	SMJ.-	-	S283	021SS-38	28		Cable S281, 283,285 Shd con together (B)	HSSVMCB3	27	312300 J04	030	
034	SPIRE SMEC PosPhD#2FB(N) . S	SMK.-	-	S284	021SS-38	31			HSSVMCB3	27	312300 J04	034	
033	SPIRE SMEC PosPhD#2FB(N) . R	SMK.-	-	S284	021SS-38	31			HSSVMCB3	27	312300 J04	033	
045	SPIRE SMEC PosPhD#2FB(N) . SHD10	SMK.-	-	S284	021SS-38	31		Cable S282, 284,286 Shd con together (C)	HSSVMCB3	27	312300 J04	045	
020	SPIRE SMEC PosPhD#3(N) . I+	SMJ.-	-	S285	021SS-38	29			HSSVMCB3	27	312300 J04	020	
021	SPIRE SMEC PosPhD#3(N) . I-	SMJ.-	-	S285	021SS-38	29			HSSVMCB3	27	312300 J04	021	
031	SPIRE SMEC PosPhD#3(N) . SHD08	SMJ.-	-	S285	021SS-38	29		Cable S281, 283,285 Shd con together (B)	HSSVMCB3	27	312300 J04	031	
058	SPIRE SMEC PosPhD#3FB(N) . S	SMK.-	-	S286	021SS-38	32			HSSVMCB3	27	312300 J04	058	
057	SPIRE SMEC PosPhD#3FB(N) . R	SMK.-	-	S286	021SS-38	32			HSSVMCB3	27	312300 J04	057	

# Pin Allocation List (Harness)

Connector: 211121 P30  
Item: CVUUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)  
Location: 33 / CVV I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
046	SPIRE SMEC PosPHD#3FB(N) . SHD11				S286	021SS-38	32				Cable S282, 284,286 Shd con together (C)	HSSVMCB3	27	312300 J04	046	
006	SPIRE FPU SMEC Contr. Faraday . SFF				S301	010B0-30					Cable P29 Faraday Shd con to Busbar ECR0039tbc	HSSVMCB3	27	312300 J04	006	3. 3. 3.
001	Faraday Pins										Connected to Busbar ECR0039tbc					
006	Faraday Pins										Connected to Busbar ECR0039tbc					
008	Faraday Pins										Connected to Busbar ECR0039tbc					
035	Faraday Pins										Connected to Busbar ECR0039tbc					
047	Faraday Pins										Connected to Busbar ECR0039tbc					
070	Faraday Pins										Connected to Busbar ECR0039tbc					
082	Faraday Pins										Connected to Busbar ECR0039tbc					
094	Faraday Pins										Connected to Busbar ECR0039tbc					
104	Faraday Pins										Connected to Busbar ECR0039tbc					
107	Faraday Pins										Connected to Busbar ECR0039tbc					
109	Faraday Pins										Connected to Busbar ECR0039tbc					
110	Faraday Pins										Connected to Busbar ECR0039tbc					
122	Faraday Pins										Connected to Busbar ECR0039tbc					
123	Faraday Pins										Connected to Busbar ECR0039tbc					
124	Faraday Pins										Connected to Busbar ECR0039tbc					
125	Faraday Pins										Connected to Busbar ECR0039tbc					
126	Faraday Pins										Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 7)

Connector: 211121 P30

Item: CVWUCR

EMC-Category: 2/Sig H fr CVWFT to SVMCB

Function: UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)

Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
-	-										
-	to inner overall shield					CH isolated from Faraday Shd					
-	Connector Housing					No Bundle Overall Shd at junction side					3.





# Astrium GmbH

Project: **HERSCHEL**

For wiring Schematic  
see S14-15-10 CVVUCR P34

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 5)

Connector: 211121 P33  
Item: CVVUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFTThr. 311.9° (SPIRE XS-12 FPU 20,22,24)  
Location: 33 / CVV I/F CB Top PFM (CVVUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
029	SPIRE SorptPumpTemp(R) . I+	S3E.-	-	S287	041SS-38	1			HSSVMCB3	27	312300 J05	029	
041	SPIRE SorptPumpTemp(R) . V+	S3E.-	-	S287	041SS-38	1			HSSVMCB3	27	312300 J05	041	
042	SPIRE SorptPumpTemp(R) . V-	S3E.-	-	S287	041SS-38	1			HSSVMCB3	27	312300 J05	042	
030	SPIRE SorptPumpTemp(R) . I-	S3E.-	-	S287	041SS-38	1			HSSVMCB3	27	312300 J05	030	
031	SPIRE SorptPumpTemp(R) . SHD01	S3E.-	-	S287	041SS-38	1		Cable S287 to S291 Shd con together	HSSVMCB3	27	312300 J05	031	
077	SPIRE EvaporatorTemp(R) . I+	S3E.-	-	S288	041SS-38	2			HSSVMCB3	27	312300 J05	077	
066	SPIRE EvaporatorTemp(R) . V+	S3E.-	-	S288	041SS-38	2			HSSVMCB3	27	312300 J05	066	
065	SPIRE EvaporatorTemp(R) . V-	S3E.-	-	S288	041SS-38	2			HSSVMCB3	27	312300 J05	065	
076	SPIRE EvaporatorTemp(R) . I-	S3E.-	-	S288	041SS-38	2			HSSVMCB3	27	312300 J05	076	
054	SPIRE EvaporatorTemp(R) . SHD02	S3E.-	-	S288	041SS-38	2		Cable S287 to S291 Shd con together	HSSVMCB3	27	312300 J05	054	
053	SPIRE SorptPumpSwTemp(R) . I+	S3E.-	-	S289	041SS-38	3			HSSVMCB3	27	312300 J05	053	
064	SPIRE SorptPumpSwTemp(R) . V+	S3E.-	-	S289	041SS-38	3			HSSVMCB3	27	312300 J05	064	
063	SPIRE SorptPumpSwTemp(R) . V-	S3E.-	-	S289	041SS-38	3			HSSVMCB3	27	312300 J05	063	
052	SPIRE SorptPumpSwTemp(R) . I-	S3E.-	-	S289	041SS-38	3			HSSVMCB3	27	312300 J05	052	
075	SPIRE SorptPumpSwTemp(R) . SHD03	S3E.-	-	S289	041SS-38	3		Cable S287 to S291 Shd con together	HSSVMCB3	27	312300 J05	075	
050	SPIRE EvaporSwTemp(R) . I+	S3E.-	-	S290	041SS-38	4			HSSVMCB3	27	312300 J05	050	
062	SPIRE EvaporSwTemp(R) . V+	S3E.-	-	S290	041SS-38	4			HSSVMCB3	27	312300 J05	062	
051	SPIRE EvaporSwTemp(R) . V-	S3E.-	-	S290	041SS-38	4			HSSVMCB3	27	312300 J05	051	
061	SPIRE EvaporSwTemp(R) . I-	S3E.-	-	S290	041SS-38	4			HSSVMCB3	27	312300 J05	061	
039	SPIRE EvaporSwTemp(R) . SHD04	S3E.-	-	S290	041SS-38	4		Cable S287 to S291 Shd con together	HSSVMCB3	27	312300 J05	039	
011	SPIRE ThermShuntTemp(R) . I+A	S3E.-	-	S291	041SS-38	5			HSSVMCB3	27	312300 J05	011	
019	SPIRE ThermShuntTemp(R) . V+B	S3E.-	-	S291	041SS-38	5			HSSVMCB3	27	312300 J05	019	
018	SPIRE ThermShuntTemp(R) . V-A	S3E.-	-	S291	041SS-38	5			HSSVMCB3	27	312300 J05	018	
010	SPIRE ThermShuntTemp(R) . I-B	S3E.-	-	S291	041SS-38	5			HSSVMCB3	27	312300 J05	010	
020	SPIRE ThermShuntTemp(R) . SHD05	S3E.-	-	S291	041SS-38	5		Cable S287 to S291 Shd con together	HSSVMCB3	27	312300 J05	020	
006	SPIRE SorptPumpHtr(R) . I+A	S3F.-	-	S292	040B0-30				HSSVMCB3	27	312300 J05	006	
013	SPIRE SorptPumpHtr(R) . I+B	S3F.-	-	S292	040B0-30				HSSVMCB3	27	312300 J05	013	
005	SPIRE SorptPumpHtr(R) . I-A	S3F.-	-	S292	040B0-30				HSSVMCB3	27	312300 J05	005	
012	SPIRE SorptPumpHtr(R) . I-B	S3F.-	-	S292	040B0-30				HSSVMCB3	27	312300 J05	012	

**Pin Allocation List**  
(Harness)**Connector:** 211121 P33**Item:** CVUUCR**EMC-Category:** 2/Sig H fr CWFT to SVMCB**Function:** UFTThr. 311.9° (SPIRE XS-12 FPU 20,22,24)**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)**Conn.-Type:** 197-012P24-35S (Plug)**Backshell:** G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
022	SPIRE SorptPumpSwHtr(R) . I+A	S3F.-	-	S293	040B0-30				HSSVMCB3	27	312300 J05	022	
033	SPIRE SorptPumpSwHtr(R) . I+B	S3F.-	-	S293	040B0-30				HSSVMCB3	27	312300 J05	033	
021	SPIRE SorptPumpSwHtr(R) . I-A	S3F.-	-	S293	040B0-30				HSSVMCB3	27	312300 J05	021	
032	SPIRE SorptPumpSwHtr(R) . I-B	S3F.-	-	S293	040B0-30				HSSVMCB3	27	312300 J05	032	
055	SPIRE EvaporSwHtr(R) . I+A	S3F.-	-	S294	040B0-30				HSSVMCB3	27	312300 J05	055	
056	SPIRE EvaporSwHtr(R) . I+B	S3F.-	-	S294	040B0-30				HSSVMCB3	27	312300 J05	056	
043	SPIRE EvaporSwHtr(R) . I-A	S3F.-	-	S294	040B0-30				HSSVMCB3	27	312300 J05	043	
044	SPIRE EvaporSwHtr(R) . I-B	S3F.-	-	S294	040B0-30				HSSVMCB3	27	312300 J05	044	
004	SPIRE FPU FC 2 Faraday . SFF	SFF.-	-	S304	010B0-30			Cable P20 Faraday Shd con to Busbar tbc	HSSVMCB3	27	312300 J05	004	3. 3. 3.
111	SPIRE Spectr4%Temp (R) . I+	SCA.-	-	S295	041SS-38	9			HSSVMCB3	27	312300 J05	111	
120	SPIRE Spectr4%Temp (R) . V+	SCA.-	-	S295	041SS-38	9			HSSVMCB3	27	312300 J05	120	
128	SPIRE Spectr4%Temp (R) . V-	SCA.-	-	S295	041SS-38	9			HSSVMCB3	27	312300 J05	128	
112	SPIRE Spectr4%Temp (R) . I-	SCA.-	-	S295	041SS-38	9			HSSVMCB3	27	312300 J05	112	
121	SPIRE Spectr4%Temp (R) . SHD01	SCA.-	-	S295	041SS-38	9		Cable S295 to S297 Shd con together	HSSVMCB3	27	312300 J05	121	
091	SPIRE Spectr2%Temp (R) . I+	SCA.-	-	S296	041SS-38	10			HSSVMCB3	27	312300 J05	091	
092	SPIRE Spectr2%Temp (R) . V+	SCA.-	-	S296	041SS-38	10			HSSVMCB3	27	312300 J05	092	
081	SPIRE Spectr2%Temp (R) . V-	SCA.-	-	S296	041SS-38	10			HSSVMCB3	27	312300 J05	081	
080	SPIRE Spectr2%Temp (R) . I-	SCA.-	-	S296	041SS-38	10			HSSVMCB3	27	312300 J05	080	
093	SPIRE Spectr2%Temp (R) . SHD02	SCA.-	-	S296	041SS-38	10		Cable S295 to S297 Shd con together	HSSVMCB3	27	312300 J05	093	
114	SPIRE SpStimFlanTemp(R) . I+	SCA.-	-	S297	041SS-38	11			HSSVMCB3	27	312300 J05	114	
113	SPIRE SpStimFlanTemp(R) . V+	SCA.-	-	S297	041SS-38	11			HSSVMCB3	27	312300 J05	113	
103	SPIRE SpStimFlanTemp(R) . V-	SCA.-	-	S297	041SS-38	11			HSSVMCB3	27	312300 J05	103	
104	SPIRE SpStimFlanTemp(R) . I-	SCA.-	-	S297	041SS-38	11			HSSVMCB3	27	312300 J05	104	
102	SPIRE SpStimFlanTemp(R) . SHD03	SCA.-	-	S297	041SS-38	11		Cable S295 to S297 Shd con together	HSSVMCB3	27	312300 J05	102	
035	SPIRE Spectr4%Heater (R) . I+A	SCB.-	-	S298	040B0-30				HSSVMCB3	27	312300 J05	035	
024	SPIRE Spectr4%Heater (R) . I+B	SCB.-	-	S298	040B0-30				HSSVMCB3	27	312300 J05	024	

# Pin Allocation List (Harness)

**Connector:** 211121 P33  
**Item:** CVWUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)  
**Location:** 33 / CVV I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
034	SPIRE Spectr4%Heater (R) . I-A	SCB.-	-	S298	040B0-30				HSSVMCB3	27	312300 J05	034	
023	SPIRE Spectr4%Heater (R) . I-B	SCB.-	-	S298	040B0-30				HSSVMCB3	27	312300 J05	023	
046	SPIRE Spectr2%Heater (R) . I+A	SCB.-	-	S299	040B0-30				HSSVMCB3	27	312300 J05	046	
058	SPIRE Spectr2%Heater (R) . I+B	SCB.-	-	S299	040B0-30				HSSVMCB3	27	312300 J05	058	
045	SPIRE Spectr2%Heater (R) . I-A	SCB.-	-	S299	040B0-30				HSSVMCB3	27	312300 J05	045	
057	SPIRE Spectr2%Heater (R) . I-B	SCB.-	-	S299	040B0-30				HSSVMCB3	27	312300 J05	057	
047	SPIRE FPU FSS2 Faraday . SFF	SFF.-	-	S303	010B0-30			Cable P22 Faraday Shd con to Busbar tbc	HSSVMCB3	27	312300 J05	047	3. 3. 3.
089	SPIRE FilterTemp(R) . I+	STA.-	-	S306	041SS-38	20			HSSVMCB3	27	312300 J05	089	
100	SPIRE FilterTemp(R) . V+	STA.-	-	S306	041SS-38	20			HSSVMCB3	27	312300 J05	100	
099	SPIRE FilterTemp(R) . V-	STA.-	-	S306	041SS-38	20			HSSVMCB3	27	312300 J05	099	
088	SPIRE FilterTemp(R) . I-	STA.-	-	S306	041SS-38	20			HSSVMCB3	27	312300 J05	088	
101	SPIRE FilterTemp(R) . SHD06	STA.-	-	S306	041SS-38	20		Cable S306 to S311Shd con together	HSSVMCB3	27	312300 J05	101	
118	SPIRE SpectDetBoxTemp(R) . I+	STA.-	-	S307	041SS-38	15			HSSVMCB3	27	312300 J05	118	
125	SPIRE SpectDetBoxTemp(R) . V+	STA.-	-	S307	041SS-38	15			HSSVMCB3	27	312300 J05	125	
126	SPIRE SpectDetBoxTemp(R) . V-	STA.-	-	S307	041SS-38	15			HSSVMCB3	27	312300 J05	126	
119	SPIRE SpectDetBoxTemp(R) . I-	STA.-	-	S307	041SS-38	15			HSSVMCB3	27	312300 J05	119	
110	SPIRE SpectDetBoxTemp(R) . SHD01	STA.-	-	S307	041SS-38	15		Cable S306 to S311Shd con together	HSSVMCB3	27	312300 J05	110	
123	SPIRE PhotomDetBoxTmp(R) . I+	STA.-	-	S308	041SS-38	16			HSSVMCB3	27	312300 J05	123	
116	SPIRE PhotomDetBoxTmp(R) . V+	STA.-	-	S308	041SS-38	16			HSSVMCB3	27	312300 J05	116	
117	SPIRE PhotomDetBoxTmp(R) . V-	STA.-	-	S308	041SS-38	16			HSSVMCB3	27	312300 J05	117	
124	SPIRE PhotomDetBoxTmp(R) . I-	STA.-	-	S308	041SS-38	16			HSSVMCB3	27	312300 J05	124	
108	SPIRE PhotomDetBoxTmp(R) . SHD02	STA.-	-	S308	041SS-38	16		Cable S306 to S311Shd con together	HSSVMCB3	27	312300 J05	108	
106	SPIRE OptSubbenchTmp(R) . I+	STA.-	-	S309	041SS-38	17			HSSVMCB3	27	312300 J05	106	
107	SPIRE OptSubbenchTmp(R) . V+	STA.-	-	S309	041SS-38	17			HSSVMCB3	27	312300 J05	107	
122	SPIRE OptSubbenchTmp(R) . V-	STA.-	-	S309	041SS-38	17			HSSVMCB3	27	312300 J05	122	
115	SPIRE OptSubbenchTmp(R) . I-	STA.-	-	S309	041SS-38	17			HSSVMCB3	27	312300 J05	115	
105	SPIRE OptSubbenchTmp(R) . SHD03	STA.-	-	S309	041SS-38	17		Cable S306 to S311Shd con together	HSSVMCB3	27	312300 J05	105	



# Pin Allocation List

(Harness)

**Connector:** 211121 P33  
**Item:** CWUUCR  
**EMC-Category:** 2I/Sig H fr CWVFT to SVMCB

**Function:** UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)  
**Location:** 33 / CWV I/F CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
097	SPIRE FPUInpBaffleTmp(R) . I+	STA-	-	S310	041SS-38	18			HSSVMCB3	27	312300 J05	097	
086	SPIRE FPUInpBaffleTmp(R) . V+	STA-	-	S310	041SS-38	18			HSSVMCB3	27	312300 J05	086	
087	SPIRE FPUInpBaffleTmp(R) . V-	STA-	-	S310	041SS-38	18			HSSVMCB3	27	312300 J05	087	
098	SPIRE FPUInpBaffleTmp(R) . I-	STA-	-	S310	041SS-38	18			HSSVMCB3	27	312300 J05	098	
109	SPIRE FPUInpBaffleTmp(R) . SHD04	STA-	-	S310	041SS-38	18		Cable S306 to S311Shd con together	HSSVMCB3	27	312300 J05	109	
073	SPIRE BSM/SOB I/FTmp(R) . I+	STA-	-	S311	041SS-38	19			HSSVMCB3	27	312300 J05	073	
074	SPIRE BSM/SOB I/FTmp(R) . V+	STA-	-	S311	041SS-38	19			HSSVMCB3	27	312300 J05	074	
085	SPIRE BSM/SOB I/FTmp(R) . V-	STA-	-	S311	041SS-38	19			HSSVMCB3	27	312300 J05	085	
084	SPIRE BSM/SOB I/FTmp(R) . I-	STA-	-	S311	041SS-38	19			HSSVMCB3	27	312300 J05	084	
096	SPIRE BSM/SOB I/FTmp(R) . SHD05	STA-	-	S311	041SS-38	19		Cable S306 to S311Shd con together	HSSVMCB3	27	312300 J05	096	
079	SPIRE PTC Htr(R) . I+A	STB-	-	S312	041BS-30	21			HSSVMCB3	27	312300 J05	079	
078	SPIRE PTC Htr(R) . I+B	STB-	-	S312	041BS-30	21			HSSVMCB3	27	312300 J05	078	
068	SPIRE PTC Htr(R) . I-A	STB-	-	S312	041BS-30	21			HSSVMCB3	27	312300 J05	068	
067	SPIRE PTC Htr(R) . I-B	STB-	-	S312	041BS-30	21			HSSVMCB3	27	312300 J05	067	
090	SPIRE PTC Htr(R) . SHD07	STB-	-	S312	041BS-30	21		Cable S312 Shd	HSSVMCB3	27	312300 J05	090	
094	SPIRE FPU FT Faraday . SFF	SFF-	-	S302	010B0-30			Cable P24 Faraday Shd con to Busbar tbc	HSSVMCB3	27	312300 J05	094	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					
004	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-5 (of 5)

Connector: 211121 P33

Item: CVWUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)

Location: 33 / CVV I/F CB Top PFM (CVWUCR)

Conn.-Type: 197-012P24-35S (Plug)

Backshell: G9254 F24 M / M24-02

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
015	Faraday Pins						Connected to Busbar ECR0039tbc					
025	Faraday Pins						Connected to Busbar ECR0039tbc					
036	Faraday Pins						Connected to Busbar ECR0039tbc					
047	Faraday Pins						Connected to Busbar ECR0039tbc					
059	Faraday Pins						Connected to Busbar ECR0039tbc					
070	Faraday Pins						Connected to Busbar ECR0039tbc					
082	Faraday Pins						Connected to Busbar ECR0039tbc					
094	Faraday Pins						Connected to Busbar ECR0039tbc					
127	Faraday Pins						Connected to Busbar ECR0039tbc					
-	-											
CH	Connector Housing						CH isolated from Faraday Shd No Overall Shd at junction side					





# Astrium GmbH

Project: **HERSCHEL**

*For wiring schematic  
see S14-1S-M CVUUCR P30*

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 6)

Connector: 211121 P29  
Item: CVUUCR

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
Location: 33 / CVW I/F CB Top PFM (CVUUCR)

Conn.-Type: 197-012P24-35S (Plug)  
Backshell: G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
051	SPIRE ChopSensor1&2(R) . 1	SBA.-	-	S313	021SS-38	1			HSSVMCB3	27	312300 J03	051	
040	SPIRE ChopSensor1&2(R) . 2	SBA.-	-	S313	021SS-38	1		Cable S313 to 316 Shd con together	HSSVMCB3	27	312300 J03	040	
039	SPIRE ChopSensor1&2(R) . SHD01	SBA.-	-	S313	021SS-38	1			HSSVMCB3	27	312300 J03	039	
028	SPIRE ChopSensor3-5(R) . 3	SBB.-	-	S314	031BS-38	2			HSSVMCB3	27	312300 J03	028	
017	SPIRE ChopSensor3-5(R) . 4	SBB.-	-	S314	031BS-38	2			HSSVMCB3	27	312300 J03	017	
016	SPIRE ChopSensor3-5(R) . 5	SBB.-	-	S314	031BS-38	2			HSSVMCB3	27	312300 J03	016	
027	SPIRE ChopSensor3-5(R) . SHD03	SBB.-	-	S314	031BS-38	2		Cable S313 to 316 Shd con together	HSSVMCB3	27	312300 J03	027	
049	SPIRE JiggleSensor1&2(R) . 1	SBA.-	-	S315	021SS-38	3			HSSVMCB3	27	312300 J03	049	
050	SPIRE JiggleSensor1&2(R) . 2	SBA.-	-	S315	021SS-38	3			HSSVMCB3	27	312300 J03	050	
038	SPIRE JiggleSensor1&2(R) . SHD02	SBA.-	-	S315	021SS-38	3		Cable S313 to 316 Shd con together	HSSVMCB3	27	312300 J03	038	
015	SPIRE JiggleSensor3-5(R) . 3	SBB.-	-	S316	031BS-38	4			HSSVMCB3	27	312300 J03	015	
025	SPIRE JiggleSensor3-5(R) . 4	SBB.-	-	S316	031BS-38	4			HSSVMCB3	27	312300 J03	025	
037	SPIRE JiggleSensor3-5(R) . 5	SBB.-	-	S316	031BS-38	4			HSSVMCB3	27	312300 J03	037	
026	SPIRE JiggleSensor3-5(R) . SHD04	SBB.-	-	S316	031BS-38	4		Cable S313 to 316 Shd con together	HSSVMCB3	27	312300 J03	026	
086	SPIRE BSMTemp(R) . I+	SBC.-	-	S317	041SS-38	5			HSSVMCB3	27	312300 J03	086	
097	SPIRE BSMTemp(R) . V+	SBC.-	-	S317	041SS-38	5			HSSVMCB3	27	312300 J03	097	
098	SPIRE BSMTemp(R) . V-	SBC.-	-	S317	041SS-38	5			HSSVMCB3	27	312300 J03	098	
087	SPIRE BSMTemp(R) . I-	SBC.-	-	S317	041SS-38	5			HSSVMCB3	27	312300 J03	087	
075	SPIRE BSMTemp(R) . SHD05	SBC.-	-	S317	041SS-38	5		Cable S317 Shd	HSSVMCB3	27	312300 J03	075	
048	SPIRE P-Cal Htr (R) . I+A	SBD.-	-	S318	041BS-30	6			HSSVMCB3	27	312300 J03	048	
071	SPIRE P-Cal Htr (R) . I+B	SBD.-	-	S318	041BS-30	6			HSSVMCB3	27	312300 J03	071	
060	SPIRE P-Cal Htr (R) . I-A	SBD.-	-	S318	041BS-30	6			HSSVMCB3	27	312300 J03	060	
059	SPIRE P-Cal Htr (R) . I-B	SBD.-	-	S318	041BS-30	6			HSSVMCB3	27	312300 J03	059	
036	SPIRE P-Cal Htr (R) . SHD06	SBD.-	-	S318	041BS-30	6		Cable S318 Shd	HSSVMCB3	27	312300 J03	036	
108	SPIRE BSMChLchConf(R) . 1	SBE.-	-	S319	021SS-38	7			HSSVMCB3	27	312300 J03	108	
116	SPIRE BSMChLchConf(R) . 2	SBE.-	-	S319	021SS-38	7			HSSVMCB3	27	312300 J03	116	
107	SPIRE BSMChLchConf(R) . SHD07	SBE.-	-	S319	021SS-38	7		Cable S319 Shd	HSSVMCB3	27	312300 J03	107	
105	SPIRE BSMLatchDrive(R) . SUP	SBF.-	-	S320	021BS-30	8			HSSVMCB3	27	312300 J03	105	

# Pin Allocation List (Harness)

**Connector:** 211121 P29  
**Item:** CVUUCR  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable						
115	SPIRE BSMLatchDrive(R) . RTN	SBF.-	-	S320	021BS-30	8			HSSVMCB3	27	312300 J03	115	
106	SPIRE BSMLatchDrive(R) . SHD08	SBF.-	-	S320	021BS-30	8		Cable S320 Shd	HSSVMCB3	27	312300 J03	106	
072	SPIRE ChopMotDrive(R) . 1	SBG.-	-	S321	041BS-30	9			HSSVMCB3	27	312300 J03	072	
061	SPIRE ChopMotDrive(R) . 2	SBG.-	-	S321	041BS-30	9			HSSVMCB3	27	312300 J03	061	
062	SPIRE ChopMotDrive(R) . 3	SBG.-	-	S321	041BS-30	9			HSSVMCB3	27	312300 J03	062	
074	SPIRE ChopMotDrive(R) . 4	SBG.-	-	S321	041BS-30	9			HSSVMCB3	27	312300 J03	074	
073	SPIRE ChopMotDrive(R) . SHD09	SBG.-	-	S321	041BS-30	9		Cable S321, 322 Shd con together	HSSVMCB3	27	312300 J03	073	
083	SPIRE JiggleMotDrive(R) . 1	SBG.-	-	S322	041BS-30	10			HSSVMCB3	27	312300 J03	083	
095	SPIRE JiggleMotDrive(R) . 2	SBG.-	-	S322	041BS-30	10			HSSVMCB3	27	312300 J03	095	
096	SPIRE JiggleMotDrive(R) . 3	SBG.-	-	S322	041BS-30	10			HSSVMCB3	27	312300 J03	096	
085	SPIRE JiggleMotDrive(R) . 4	SBG.-	-	S322	041BS-30	10			HSSVMCB3	27	312300 J03	085	
084	SPIRE JiggleMotDrive(R) . SHD10	SBG.-	-	S322	041BS-30	10		Cable S321, 322 Shd con together	HSSVMCB3	27	312300 J03	084	
082	SPIRE FPU BSM PS Faraday . SFF	SFF.-	-	S305	010B0-30			Cable P26 Faraday Shd con to Busbar ECR0039tbc	HSSVMCB3	27	312300 J03	082	3. 3. 3.
117	SPIRE SMECLLch#1Conf(R) . 1+	SME.-	-	S323	021BS-30	11			HSSVMCB3	27	312300 J03	117	
118	SPIRE SMECLLch#1Conf(R) . 1-	SME.-	-	S323	021BS-30	11			HSSVMCB3	27	312300 J03	118	
109	SPIRE SMECLLch#1Conf(R) . SHD06	SME.-	-	S323	021BS-30	11		Cable S323, 324 Shd con together (A)	HSSVMCB3	27	312300 J03	109	
111	SPIRE SMECLLch#2Conf(R) . 2+	SME.-	-	S324	021BS-30	12			HSSVMCB3	27	312300 J03	111	
119	SPIRE SMECLLch#2Conf(R) . 2-	SME.-	-	S324	021BS-30	12			HSSVMCB3	27	312300 J03	119	
110	SPIRE SMECLLch#2Conf(R) . SHD07	SME.-	-	S324	021BS-30	12		Cable S323, 324 Shd con together (A)	HSSVMCB3	27	312300 J03	110	
067	SPIRE SMECLL#1Pwr1(A) . S1	SMF.-	-	S325	021BS-30	13			HSSVMCB3	27	312300 J03	067	
066	SPIRE SMECLL#1Pwr1(A) . R1	SMF.-	-	S325	021BS-30	13			HSSVMCB3	27	312300 J03	066	
078	SPIRE SMECLL#1Pwr1(A) . SHD08	SMF.-	-	S325	021BS-30	13		Cable S325 to 328 Shd con together (B)	HSSVMCB3	27	312300 J03	078	
069	SPIRE SMECLL#1Pwr2(B) . S2	SMF.-	-	S326	021BS-30	14			HSSVMCB3	27	312300 J03	069	
068	SPIRE SMECLL#1Pwr2(B) . R2	SMF.-	-	S326	021BS-30	14			HSSVMCB3	27	312300 J03	068	
080	SPIRE SMECLL#1Pwr2(B) . SHD09	SMF.-	-	S326	021BS-30	14		Cable S325 to 328 Shd con together (B)	HSSVMCB3	27	312300 J03	080	

# Pin Allocation List (Harness)

**Connector:** 211121 P29  
**Item:** CVWUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
**Location:** 33 / CVW I/F CB Top PFM (CVWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
090	SPIRE SMECLL#2Pwr1/A(R) . S1	SMF.-	-	S327	021BS-30	15			HSSVMCB3	27	312300 J03	090	
091	SPIRE SMECLL#2Pwr1/A(R) . R1	SMF.-	-	S327	021BS-30	15			HSSVMCB3	27	312300 J03	091	
079	SPIRE SMECLL#2Pwr1/A(R) . SHD10	SMF.-	-	S327	021BS-30	15		Cable S325 to 328 Shd con together (B)	HSSVMCB3	27	312300 J03	079	
092	SPIRE SMECLL#2Pwr2/B(R) . S2	SMF.-	-	S328	021BS-30	16			HSSVMCB3	27	312300 J03	092	
093	SPIRE SMECLL#2Pwr2/B(R) . R2	SMF.-	-	S328	021BS-30	16			HSSVMCB3	27	312300 J03	093	
081	SPIRE SMECLL#2Pwr2/B(R) . SHD11	SMF.-	-	S328	021BS-30	16		Cable S325 to 328 Shd con together (B)	HSSVMCB3	27	312300 J03	081	
088	SPIRE SMECTemp(R) . I+	SMC.-	-	S329	041SS-38	17			HSSVMCB3	27	312300 J03	088	
099	SPIRE SMECTemp(R) . V+	SMC.-	-	S329	041SS-38	17			HSSVMCB3	27	312300 J03	099	
100	SPIRE SMECTemp(R) . V-	SMC.-	-	S329	041SS-38	17			HSSVMCB3	27	312300 J03	100	
089	SPIRE SMECTemp(R) . I-	SMC.-	-	S329	041SS-38	17			HSSVMCB3	27	312300 J03	089	
077	SPIRE SMECTemp(R) . SHD04	SMC.-	-	S329	041SS-38	17		Cable S329, 330 Shd con together (C)	HSSVMCB3	27	312300 J03	077	
054	SPIRE SMEC/SOB I/FTmp(R) (#13) . I+	SMC.-	-	S330	041SS-38	18			HSSVMCB3	27	312300 J03	054	
065	SPIRE SMEC/SOB I/FTmp(R) (#13) . V+	SMC.-	-	S330	041SS-38	18			HSSVMCB3	27	312300 J03	065	
064	SPIRE SMEC/SOB I/FTmp(R) (#13) . V-	SMC.-	-	S330	041SS-38	18			HSSVMCB3	27	312300 J03	064	
053	SPIRE SMEC/SOB I/FTmp(R) (#13) . I-	SMC.-	-	S330	041SS-38	18			HSSVMCB3	27	312300 J03	053	
076	SPIRE SMEC/SOB I/FTmp(R) (#13) . SHD05	SMC.-	-	S330	041SS-38	18		Cable S329, 330 Shd con together (C)	HSSVMCB3	27	312300 J03	076	
101	SPIRE SMECLVDTPrICIPw(R) . P	SMA.-	-	S331	021BS-30	19			HSSVMCB3	27	312300 J03	101	
102	SPIRE SMECLVDTPrICIPw(R) . N	SMA.-	-	S331	021BS-30	19			HSSVMCB3	27	312300 J03	102	
112	SPIRE SMECLVDTPrICIPw(R) . SHD01	SMA.-	-	S331	021BS-30	19		Cable S331 to 333 Shd con together (D)	HSSVMCB3	27	312300 J03	112	
127	SPIRE SMECLVDTSC#1Sg(R) . P	SMB.-	-	S332	021BS-30	20			HSSVMCB3	27	312300 J03	127	
120	SPIRE SMECLVDTSC#1Sg(R) . N	SMB.-	-	S332	021BS-30	20			HSSVMCB3	27	312300 J03	120	
128	SPIRE SMECLVDTSC#1Sg(R) . SHD02	SMB.-	-	S332	021BS-30	20		Cable S331 to 333 Shd con together (D)	HSSVMCB3	27	312300 J03	128	
114	SPIRE SMECLVDTSC#2Sg(R) . P	SMB.-	-	S333	021BS-30	21			HSSVMCB3	27	312300 J03	114	
113	SPIRE SMECLVDTSC#2Sg(R) . N	SMB.-	-	S333	021BS-30	21			HSSVMCB3	27	312300 J03	113	

# Pin Allocation List (Harness)

**Connector:** 211121 P29  
**Item:** CWUCR  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
**Location:** 33 / CVV I/F CB Top PFM (CWUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
121	SPIRE SMECLVDTSCI#2Sg(R) . SHD03	SMB.-	-	S333	021BS-30	21		Cable S331 to 333 Shd con together (D)	HSSVMCB3	27	312300 J03	121	
104	SPIRE FPU SMEC LR Faraday . SFF	SFF.-	-	S351	010B0-30			Cable P28 Faraday Shd con to Busbar ECR0039tbc	HSSVMCB3	27	312300 J03	104	3. 3. 3.
012	SPIRE SMEC Drv Coil (R) . I+	SMD.-	-	S334	021BS-30	22			HSSVMCB3	27	312300 J03	012	
005	SPIRE SMEC Drv Coil (R) . I-	SMD.-	-	S334	021BS-30	22			HSSVMCB3	27	312300 J03	005	
013	SPIRE SMEC Drv Coil (R) . SHD01	SMD.-	-	S334	021BS-30	22		Cable S334,335 con together (A)	HSSVMCB3	27	312300 J03	013	
022	SPIRE SMEC Drv Coil (Rob) (R) . I+	SMD.-	-	S335	021BS-30	23			HSSVMCB3	27	312300 J03	022	
007	SPIRE SMEC Drv Coil (Rob) (R) . I-	SMD.-	-	S335	021BS-30	23			HSSVMCB3	27	312300 J03	007	
013	SPIRE SMEC Drv Coil (Rob) (R) . SHD02	SMD.-	-	S335	021BS-30	23		Cable S334,335 con together (A)	HSSVMCB3	27	312300 J03	013	
014	SPIRE SMEC Drv Sense (R) . Sen+	SMG.-	-	S336	021BS-38	24			HSSVMCB3	27	312300 J03	014	
024	SPIRE SMEC Drv Sense (R) . Sen-	SMG.-	-	S336	021BS-38	24			HSSVMCB3	27	312300 J03	024	
023	SPIRE SMEC Drv Sense (R) . SHD03	SMG.-	-	S336	021BS-38	24		Cable S336 Shd	HSSVMCB3	27	312300 J03	023	
009	SPIRE SMEC PosSeLEDpwr(R) . S	SMH.-	-	S337	021BS-38	25			HSSVMCB3	27	312300 J03	009	
002	SPIRE SMEC PosSeLEDpwr(R) . R	SMH.-	-	S337	021BS-38	25			HSSVMCB3	27	312300 J03	002	
003	SPIRE SMEC PosSeLEDpwr(R) . SHD04	SMH.-	-	S337	021BS-38	25		Cable S337 Shd	HSSVMCB3	27	312300 J03	003	
011	SPIRE SMEC PosSensPwr(R) . S	SMH.-	-	S338	021BS-38	26			HSSVMCB3	27	312300 J03	011	
004	SPIRE SMEC PosSensPwr(R) . R	SMH.-	-	S338	021BS-38	26			HSSVMCB3	27	312300 J03	004	
010	SPIRE SMEC PosSensPwr(R) . SHD05	SMH.-	-	S338	021BS-38	26		Cable S338 Shd	HSSVMCB3	27	312300 J03	010	
018	SPIRE SMEC PosPhD#1(R) . I+	SMJ.-	-	S339	021SS-38	27			HSSVMCB3	27	312300 J03	018	
019	SPIRE SMEC PosPhD#1(R) . I-	SMJ.-	-	S339	021SS-38	27			HSSVMCB3	27	312300 J03	019	
029	SPIRE SMEC PosPhD#1(R) . SHD06	SMJ.-	-	S339	021SS-38	27		Cable S339, 341, 343 Shd con together (B)	HSSVMCB3	27	312300 J03	029	
056	SPIRE SMEC PosPhD#1FB(R) . S	SMK.-	-	S340	021SS-38	30			HSSVMCB3	27	312300 J03	056	
055	SPIRE SMEC PosPhD#1FB(R) . R	SMK.-	-	S340	021SS-38	30			HSSVMCB3	27	312300 J03	055	
044	SPIRE SMEC PosPhD#1FB(R) . SHD09	SMK.-	-	S340	021SS-38	30		Cable S340, 342, 344 Shd con together (C)	HSSVMCB3	27	312300 J03	044	
042	SPIRE SMEC PosPhD#2(R) . I+	SMJ.-	-	S341	021SS-38	28			HSSVMCB3	27	312300 J03	042	
041	SPIRE SMEC PosPhD#2(R) . I-	SMJ.-	-	S341	021SS-38	28			HSSVMCB3	27	312300 J03	041	



# Pin Allocation List (Harness)

**Connector:** 211121 P29  
**Item:** CVUUCR  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
**Location:** 33 / CVV I/F CB Top PFM (CVUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
030	SPIRE SMEC PosPhDi#2(R) . SHD07	SMJ.-	-	S341	021SS-38	28		Cable S339, 341, 343 Shd con together (B)	HSSVMCB3	27	312300 J03	030	
034	SPIRE SMEC PosPhDi#2FB(R) . S	SMK.-	-	S342	021SS-38	31			HSSVMCB3	27	312300 J03	034	
033	SPIRE SMEC PosPhDi#2FB(R) . R	SMK.-	-	S342	021SS-38	31			HSSVMCB3	27	312300 J03	033	
045	SPIRE SMEC PosPhDi#2FB(R) . SHD10	SMK.-	-	S342	021SS-38	31		Cable S340, 342, 344 Shd con together (C)	HSSVMCB3	27	312300 J03	045	
020	SPIRE SMEC PosPhDi#3(R) . I+	SMJ.-	-	S343	021SS-38	29			HSSVMCB3	27	312300 J03	020	
021	SPIRE SMEC PosPhDi#3(R) . I-	SMJ.-	-	S343	021SS-38	29			HSSVMCB3	27	312300 J03	021	
031	SPIRE SMEC PosPhDi#3(R) . SHD08	SMJ.-	-	S343	021SS-38	29		Cable S339, 341, 343 Shd con together (B)	HSSVMCB3	27	312300 J03	031	
058	SPIRE SMEC PosPhDi#3FB(R) . S	SMK.-	-	S344	021SS-38	32			HSSVMCB3	27	312300 J03	058	
057	SPIRE SMEC PosPhDi#3FB(R) . R	SMK.-	-	S344	021SS-38	32			HSSVMCB3	27	312300 J03	057	
046	SPIRE SMEC PosPhDi#3FB(R) . SHD11	SMK.-	-	S344	021SS-38	32		Cable S340, 342, 344 Shd con together (C)	HSSVMCB3	27	312300 J03	046	
006	SPIRE FPU SMEC CR Faraday . SFF	SFF.-	-	S352	010B0-30			Cable P30 Faraday Shd con to Busbar ECR0039tbc	HSSVMCB3	27	312300 J03	006	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
006	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
035	Faraday Pins							Connected to Busbar ECR0039tbc					
047	Faraday Pins							Connected to Busbar ECR0039tbc					
070	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
104	Faraday Pins							Connected to Busbar ECR0039tbc					

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-6 (of 6)

**Connector:** 211121 P29  
**Item:** CWUUCR  
**EMC-Category:** 2I/Sig H fr CWVFT to SVMCB

**Function:** UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)  
**Location:** 33 / CWV /IF CB Top PFM (CWUUCR)

**Conn.-Type:** 197-012P24-35S (Plug)  
**Backshell:** G9254 F24 M / M24-03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
107	Faraday Pins					Connected to Busbar ECR0039tbc					
109	Faraday Pins					Connected to Busbar ECR0039tbc					
110	Faraday Pins					Connected to Busbar ECR0039tbc					
122	Faraday Pins					Connected to Busbar ECR0039tbc					
123	Faraday Pins					Connected to Busbar ECR0039tbc					
124	Faraday Pins					Connected to Busbar ECR0039tbc					
125	Faraday Pins					Connected to Busbar ECR0039tbc					
126	Faraday Pins					Connected to Busbar ECR0039tbc					
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
CH	Connector Housing					CH isolated from Faraday Shd No Bundle Overall Shd at Junction Side					



**Astrium GmbH**  
 Project: **HERSCHEL**

# Pin Allocation List

(Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-1 (of 9)

For wiring schematic  
 See SH-18-0A CVVUCR P32

**Connector:** 312200 J06  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CVWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 01)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
115	SPIRE SLW GND Wire A1	SSX.-	-	S401	010B0-30			Con to Cables from P05 GND/Shds	CVVUCR	33	211121 P32	115	
026	SPIRE SLW Ch01-04 . 1+	SSB.I	-	S001	021SS-38	1		SLW-R1	CVVUCR	33	211121 P32	026	
037	SPIRE SLW Ch01-04 . 1-	SSB.I	-	S001	021SS-38	1			CVVUCR	33	211121 P32	037	
115	SPIRE SLW Ch01-04 . 1gnd	SSB.I	-	S001	021SS-38	1		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
038	SPIRE SLW Ch01-04 . 2+	SSB.I	-	S001	021SS-38	1		SLW-T1	CVVUCR	33	211121 P32	038	
049	SPIRE SLW Ch01-04 . 2-	SSB.I	-	S001	021SS-38	1			CVVUCR	33	211121 P32	049	
115	SPIRE SLW Ch01-04 . 2gnd	SSB.I	-	S001	021SS-38	1		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
048	SPIRE SLW Ch01-04 . 3+	SSB.I	-	S001	021SS-38	1		SLW-C1	CVVUCR	33	211121 P32	048	
060	SPIRE SLW Ch01-04 . 3-	SSB.I	-	S001	021SS-38	1			CVVUCR	33	211121 P32	060	
115	SPIRE SLW Ch01-04 . 3gnd	SSB.I	-	S001	021SS-38	1		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
059	SPIRE SLW Ch01-04 . 4+	SSB.I	-	S001	021SS-38	1		SLW-DK1	CVVUCR	33	211121 P32	059	
071	SPIRE SLW Ch01-04 . 4-	SSB.I	-	S001	021SS-38	1			CVVUCR	33	211121 P32	071	
115	SPIRE SLW Ch01-04 . 4gnd	SSB.I	-	S001	021SS-38	1		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
115	SPIRE SLW Ch01-04 . SHD01	SSB.I	-	S001	021SS-38	1		Cable S001 Shd daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
050	SPIRE SLW Ch05-08 . 5+	SSB.I	-	S002	021SS-38	2		SLW-B1	CVVUCR	33	211121 P32	050	
061	SPIRE SLW Ch05-08 . 5-	SSB.I	-	S002	021SS-38	2			CVVUCR	33	211121 P32	061	
115	SPIRE SLW Ch05-08 . 5gnd	SSB.I	-	S002	021SS-38	2		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
062	SPIRE SLW Ch05-08 . 6+	SSB.I	-	S002	021SS-38	2		SLW-D1	CVVUCR	33	211121 P32	062	
051	SPIRE SLW Ch05-08 . 6-	SSB.I	-	S002	021SS-38	2			CVVUCR	33	211121 P32	051	
115	SPIRE SLW Ch05-08 . 6gnd	SSB.I	-	S002	021SS-38	2		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
063	SPIRE SLW Ch05-08 . 7+	SSB.I	-	S002	021SS-38	2		SLW-E1	CVVUCR	33	211121 P32	063	
075	SPIRE SLW Ch05-08 . 7-	SSB.I	-	S002	021SS-38	2			CVVUCR	33	211121 P32	075	
115	SPIRE SLW Ch05-08 . 7gnd	SSB.I	-	S002	021SS-38	2		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
074	SPIRE SLW Ch05-08 . 8+	SSB.I	-	S002	021SS-38	2		SLW-A1	CVVUCR	33	211121 P32	074	
073	SPIRE SLW Ch05-08 . 8-	SSB.I	-	S002	021SS-38	2			CVVUCR	33	211121 P32	073	
115	SPIRE SLW Ch05-08 . 8gnd	SSB.I	-	S002	021SS-38	2		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
115	SPIRE SLW Ch05-08 . SHD02	SSB.I	-	S002	021SS-38	2		Cable S002 Shd daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	

# Pin Allocation List (Harness)

Connector: 312200 J06

Item: HSSVMCB2

EMC-Category: 2/|Sig H fr CWVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 01)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
083	SPIRE SLW Ch09-12 . 9+	SSB.I	-	S003	021SS-38	3		SLW-C2	CVVUCR	33	211121 P32	083	
072	SPIRE SLW Ch09-12 . 9-	SSB.I	-	S003	021SS-38	3			CVVUCR	33	211121 P32	072	
115	SPIRE SLW Ch09-12 . 9gnd	SSB.I	-	S003	021SS-38	3		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
095	SPIRE SLW Ch09-12 . 10+	SSB.I	-	S003	021SS-38	3		SLW-D2	CVVUCR	33	211121 P32	095	
084	SPIRE SLW Ch09-12 . 10-	SSB.I	-	S003	021SS-38	3			CVVUCR	33	211121 P32	084	
115	SPIRE SLW Ch09-12 . 10gnd	SSB.I	-	S003	021SS-38	3		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
096	SPIRE SLW Ch09-12 . 11+	SSB.I	-	S003	021SS-38	3		SLW-B2	CVVUCR	33	211121 P32	096	
085	SPIRE SLW Ch09-12 . 11-	SSB.I	-	S003	021SS-38	3			CVVUCR	33	211121 P32	085	
115	SPIRE SLW Ch09-12 . 11gnd	SSB.I	-	S003	021SS-38	3		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
106	SPIRE SLW Ch09-12 . 12+	SSB.I	-	S003	021SS-38	3		SLW-E2	CVVUCR	33	211121 P32	106	
107	SPIRE SLW Ch09-12 . 12-	SSB.I	-	S003	021SS-38	3			CVVUCR	33	211121 P32	107	
115	SPIRE SLW Ch09-12 . 12gnd	SSB.I	-	S003	021SS-38	3		Daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
115	SPIRE SLW Ch09-12 . SHD03	SSB.I	-	S003	021SS-38	3		Cable S003 Shd daisy ch to Pin 115 (A1)	CVVUCR	33	211121 P32	115	
-	Faraday Link							Cable from P05 Faraday Shd con to Busbar					
122	SPIRE SLW GND Wire A2	SSX.-	-	S402	010B0-30			GND Wire A2 con to all Cable 004, 005 and 006 gnd shld	CVVUCR	33	211121 P32	122	
086	SPIRE SLW Ch13-16 . 13+	SSB.I	-	S004	021SS-38	4		SLW-A2	CVVUCR	33	211121 P32	086	
087	SPIRE SLW Ch13-16 . 13-	SSB.I	-	S004	021SS-38	4			CVVUCR	33	211121 P32	087	
122	SPIRE SLW Ch13-16 . 13gnd	SSB.I	-	S004	021SS-38	4		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
097	SPIRE SLW Ch13-16 . 14+	SSB.I	-	S004	021SS-38	4		SLW-C3	CVVUCR	33	211121 P32	097	
098	SPIRE SLW Ch13-16 . 14-	SSB.I	-	S004	021SS-38	4			CVVUCR	33	211121 P32	098	
122	SPIRE SLW Ch13-16 . 14gnd	SSB.I	-	S004	021SS-38	4		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
108	SPIRE SLW Ch13-16 . 15+	SSB.I	-	S004	021SS-38	4		SLW-D3	CVVUCR	33	211121 P32	108	
109	SPIRE SLW Ch13-16 . 15-	SSB.I	-	S004	021SS-38	4			CVVUCR	33	211121 P32	109	
122	SPIRE SLW Ch13-16 . 15gnd	SSB.I	-	S004	021SS-38	4		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
116	SPIRE SLW Ch13-16 . 16+	SSB.I	-	S004	021SS-38	4		SLW-B3	CVVUCR	33	211121 P32	116	

# Pin Allocation List (Harness)

**Connector:** 312200 J06  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 01)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
117	SPIRE SLW Ch13-16 . 16-	SSB.I -		S004	021SS-38	4			CVVUCR	33	211121 P32	117	
122	SPIRE SLW Ch13-16 . 16gnd	SSB.I -		S004	021SS-38	4		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
122	SPIRE SLW Ch13-16 . SHD01	SSB.I -		S004	021SS-38	4		Cable S004 Shd daisy ch to Pin 122 at CVV side (A2)	CVVUCR	33	211121 P32		
055	SPIRE SLW Ch17-20 . 17+	SSB.I -		S005	021SS-38	5		SLW-E3	CVVUCR	33	211121 P32	055	
066	SPIRE SLW Ch17-20 . 17-	SSB.I -		S005	021SS-38	5			CVVUCR	33	211121 P32	066	
122	SPIRE SLW Ch17-20 . 17gnd	SSB.I -		S005	021SS-38	5		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
067	SPIRE SLW Ch17-20 . 18+	SSB.I -		S005	021SS-38	5		SLW-C4	CVVUCR	33	211121 P32	067	
078	SPIRE SLW Ch17-20 . 18-	SSB.I -		S005	021SS-38	5			CVVUCR	33	211121 P32	078	
122	SPIRE SLW Ch17-20 . 18gnd	SSB.I -		S005	021SS-38	5		12AX gnd daisy ch to Pin 122 at CVV side (A2)	CVVUCR	33	211121 P32	122	
076	SPIRE SLW Ch17-20 . 19+	SSB.I -		S005	021SS-38	5		SLW-DK2	CVVUCR	33	211121 P32	076	
077	SPIRE SLW Ch17-20 . 19-	SSB.I -		S005	021SS-38	5			CVVUCR	33	211121 P32	077	
122	SPIRE SLW Ch17-20 . 19gnd	SSB.I -		S005	021SS-38	5		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
088	SPIRE SLW Ch17-20 . 20+	SSB.I -		S005	021SS-38	5		SLW-D4	CVVUCR	33	211121 P32	088	
089	SPIRE SLW Ch17-20 . 20-	SSB.I -		S005	021SS-38	5			CVVUCR	33	211121 P32	089	
122	SPIRE SLW Ch17-20 . 20gnd	SSB.I -		S005	021SS-38	5		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
122	SPIRE SLW Ch17-20 . SHD02	SSB.I -		S005	021SS-38	5		Cable S005 Shd daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32		
099	SPIRE SLW Ch21-24 . 21+	SSB.I -		S006	021SS-38	6		SLW-C5	CVVUCR	33	211121 P32	099	
100	SPIRE SLW Ch21-24 . 21-	SSB.I -		S006	021SS-38	6			CVVUCR	33	211121 P32	100	
122	SPIRE SLW Ch21-24 . 21gnd	SSB.I -		S006	021SS-38	6		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
110	SPIRE SLW Ch21-24 . 22+	SSB.I -		S006	021SS-38	6		SLW-B4	CVVUCR	33	211121 P32	110	
111	SPIRE SLW Ch21-24 . 22-	SSB.I -		S006	021SS-38	6			CVVUCR	33	211121 P32	111	
122	SPIRE SLW Ch21-24 . 22gnd	SSB.I -		S006	021SS-38	6		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
118	SPIRE SLW Ch21-24 . 23+	SSB.I -		S006	021SS-38	6		SLW-A3	CVVUCR	33	211121 P32	118	
119	SPIRE SLW Ch21-24 . 23-	SSB.I -		S006	021SS-38	6			CVVUCR	33	211121 P32	119	
122	SPIRE SLW Ch21-24 . 23gnd	SSB.I -		S006	021SS-38	6		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	
112	SPIRE SLW Ch21-24 . 24+	SSB.I -		S006	021SS-38	6		SLW-T2	CVVUCR	33	211121 P32	112	
120	SPIRE SLW Ch21-24 . 24-	SSB.I -		S006	021SS-38	6			CVVUCR	33	211121 P32	120	
122	SPIRE SLW Ch21-24 . 24gnd	SSB.I -		S006	021SS-38	6		Daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32	122	

**Pin Allocation List**  
(Harness)**Connector:** 312200 J06**Item:** HSSVMCB2**EMC-Category:** 2/Sig H fr CWFT to SVMCB**Function:** SPIRE SVM CB2 (SPIRE Bundle 01)**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)**Conn.-Type:** SCC340104401B032435P**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Pos.			Shd	Cable Twist						
122	SPIRE SLW Ch21-24 . SHD03	SSB.I -		S006	021SS-38	6		Cable S006 Shd daisy ch to Pin 122 (A2)	CVVUCR	33	211121 P32		
-	Faraday Link							Cable from P06 Faraday Shd con to Busbar tbc					
007	SPIRE PTC TC Bias A . +ve	S3A.I -		S009	021BS-38	9			CVVUCR	33	211121 P32	007	
014	SPIRE PTC TC Bias A . -ve	S3A.I -		S009	021BS-38	9			CVVUCR	33	211121 P32	014	
046	SPIRE PTC TC Bias A . SHD01	S3A.I -		S009	021BS-38	9		Cable 009 Shd daisy ch to Pin 46 at CVV side (A3)	CVVUCR	33	211121 P32	046	
046	SPIRE PTC GND WIRE A3 . GND A3	SSX.-		S403	010B0-30			Gnd Wire A3 con to Cable 09 + 10 Shd	CVVUCR	33	211121 P32	046	
024	SPIRE PTC JFETV Bias A . +ve	S3C.I -		S010	021BS-38	10			CVVUCR	33	211121 P32	024	
035	SPIRE PTC JFETV Bias A . -ve	S3C.I -		S010	021BS-38	10			CVVUCR	33	211121 P32	035	
046	SPIRE PTC JFETV Bias A . SHD02	S3C.I -		S010	021BS-38	10		Cable 010 Shd daisy ch to Pin 046 at CVV side (A3)	CVVUCR	33	211121 P32	046	
121	SPIRE SLW Bias A1 . +ve	SSD.I -		S025	021BS-38	25			CVVUCR	33	211121 P32	121	
114	SPIRE SLW Bias A1 . -ve	SSD.I -		S025	021BS-38	25			CVVUCR	33	211121 P32	114	
104	SPIRE SLW Bias A1 . SHD03	SSD.I -		S025	021BS-38	25		Cable S025 Shd daisy ch to Pin 104 at CVV side (B3)	CVVUCR	33	211121 P32	104	
102	SPIRE SLW Bias A2 . +ve	SSD.I -		S026	021BS-38	26			CVVUCR	33	211121 P32	102	
101	SPIRE SLW Bias A2 . -ve	SSD.I -		S026	021BS-38	26			CVVUCR	33	211121 P32	101	
104	SPIRE SLW Bias A2 . SHD04	SSD.I -		S026	021BS-38	26		Cable S026 Shd daisy ch to Pin 104 at CVV side (B3)	CVVUCR	33	211121 P32	104	
104	SPIRE SLW GND WIRE B3	SSX.-		S405	010B0-30			SLW GND Wire B3 con to cable 25,26,11,12 Shd	CVVUCR	33	211121 P32	104	
092	SPIRE SLW JFETV A1 . +ve	SSF.I -		S011	021BS-38	11			CVVUCR	33	211121 P32	092	
091	SPIRE SLW JFETV A1 . -ve	SSF.I -		S011	021BS-38	11			CVVUCR	33	211121 P32	091	
104	SPIRE SLW JFETV A1 . SHD05	SSF.I -		S011	021BS-38	11		Cable S011 Shd daisy ch to Pin 104 at CVV side (B3)	CVVUCR	33	211121 P32	104	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

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**Connector:** 312200 J06  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 01)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
103	SPIRE SLW JFETV A2 . +ve	SSF.I	-	S012	021BS-38	12		Cable S012 Shd daisy ch to Pin 104 at CVV side (B3)	CVVUCR	33	211121 P32	103	
113	SPIRE SLW JFETV A2 . -ve	SSF.I	-	S012	021BS-38	12			CVVUCR	33	211121 P32	113	
104	SPIRE SLW JFETV A2 . SHD06	SSF.I	-	S012	021BS-38	12			CVVUCR	33	211121 P32	104	
-													
090	SPIRE SSW Bias A1 . +ve	SSC.I	-	S029	021BS-38	29		Cable S029 Shd daisy ch to Pin 093 at CVV side (C3)	CVVUCR	33	211121 P32	090	
079	SPIRE SSW Bias A1 . -ve	SSC.I	-	S029	021BS-38	29			CVVUCR	33	211121 P32	079	
093	SPIRE SSW Bias A1 . SHD07	SSC.I	-	S029	021BS-38	29			CVVUCR	33	211121 P32	093	
-													
068	SPIRE SSW JFETV A1 . +ve	SSE.I	-	S016	021BS-38	16		Cable S016 Shd daisy ch to Pin 093 at CVV side (C3)	CVVUCR	33	211121 P32	068	
057	SPIRE SSW JFETV A1 . -ve	SSE.I	-	S016	021BS-38	16			CVVUCR	33	211121 P32	057	
093	SPIRE SSW JFETV A1 . SHD08	SSE.I	-	S016	021BS-38	16			CVVUCR	33	211121 P32	093	
-													
093	SPIRE SSW GND Wire C3	SSX.-	-	S406	010B0-30			GND Wire C3 con to Cable 29,16,3117 Shd	CVVUCR	33	211121 P32	093	
-													
069	SPIRE SSW Bias A2 . +ve	SSC.I	-	S031	021BS-38	31		Cable S031 Shd daisy ch to Pin 093 at CVV side (C3)	CVVUCR	33	211121 P32	069	
080	SPIRE SSW Bias A2 . -ve	SSC.I	-	S031	021BS-38	31			CVVUCR	33	211121 P32	080	
093	SPIRE SSW Bias A2 . SHD09	SSC.I	-	S031	021BS-38	31			CVVUCR	33	211121 P32	093	
-													
070	SPIRE SSW JFETV A2 . +ve	SSE.I	-	S017	021BS-38	17		Cable S017 Shd daisy ch to Pin 093 at CVV side (C3)	CVVUCR	33	211121 P32	070	
081	SPIRE SSW JFETV A2 . -ve	SSE.I	-	S017	021BS-38	17			CVVUCR	33	211121 P32	081	
093	SPIRE SSW JFETV A2 . SHD10	SSE.I	-	S017	021BS-38	17			CVVUCR	33	211121 P32	093	
-													
022	SPIRE S_Heater GND D3	SSX.-	-	S410	010B0-30			GND Wire D3 con to Cable 33,34,19Shd	CVVUCR	33	211121 P32	022	
-													
023	SPIRE SLW JFET Htr A . +ve	SSH.-	-	S033	021BS-38	33		Cable S033 Shd daisy ch to Cable 034 Shd = GND wire D3	CVVUCR	33	211121 P32	023	
034	SPIRE SLW JFET Htr A . -ve	SSH.-	-	S033	021BS-38	33			CVVUCR	33	211121 P32	034	
022	SPIRE SLW JFET Htr A . SHD13	SSH.-	-	S033	021BS-38	33			CVVUCR	33	211121 P32	022	
-													
033	SPIRE SSW JFET Htr A . +ve	SSG.-	-	S034	021BS-38	34			CVVUCR	33	211121 P32	033	



# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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Project: **HERSCHEL**

**Connector:** 312200 J06

**Conn.-Type:** SCC340104401B032435P

**Item:** HSSVMCB2

**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Backshell:** 440 FS 110 M 24 03

**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
045	SPIRE SSW JFET Htr A . +ve	SSG.-	-	S034	021BS-38	34			CVUUCR	33	211121 P32	045	
022	SPIRE SSW JFET Htr A . SHD12	SSG.-	-	S034	021BS-38	34		Cable S034 Shd daisy ch to Cable 033	CVUUCR	33	211121 P32	022	
044	SPIRE PTC JFET Htr A . +ve	S3B.-	-	S019	021BS-38	19			CVUUCR	33	211121 P32	044	
056	SPIRE PTC JFET Htr A . -ve	S3B.-	-	S019	021BS-38	19			CVUUCR	33	211121 P32	056	
022	SPIRE PTC JFET Htr A . SHD11	S3B.-	-	S019	021BS-38	19		Cable S019 Shd daisy ch to Gnd Wire D3	CVUUCR	33	211121 P32	022	
-	Faraday Link							Cable from P09 Faraday Shd con to Busbar					
001	SPIRE PTC TC Bias B . +ve	S3A.I	-	S020	021BS-38	20			CVUUCR	33	211121 P32	001	
008	SPIRE PTC TC Bias B . -ve	S3A.I	-	S020	021BS-38	20			CVUUCR	33	211121 P32	008	
004	SPIRE PTC TC Bias B . SHD01	S3A.I	-	S020	021BS-38	20		Cable S020 Shd daisy ch to Gnd Wire A4	CVUUCR	33	211121 P32	004	
004	SPIRE PTC GND Wire A4	SSX.-	-	S404	010B0-30			GND Wire A4 con Cable 21, 22 Shd	CVUUCR	33	211121 P32	004	
003	SPIRE PTC JFETV Bias B . +ve	S3C.I	-	S022	021BS-38	22			CVUUCR	33	211121 P32	003	
002	SPIRE PTC JFETV Bias B . -ve	S3C.I	-	S022	021BS-38	22			CVUUCR	33	211121 P32	002	
004	SPIRE PTC JFETV Bias B . SHD02	S3C.I	-	S022	021BS-38	22		Cable S022 Shd daisy ch to Gnd Wire A4	CVUUCR	33	211121 P32	004	
013	SPIRE SLW Bias B1 . +ve	SSD.I	-	S038	021BS-38	38			CVUUCR	33	211121 P32	013	
012	SPIRE SLW Bias B1 . -ve	SSD.I	-	S038	021BS-38	38			CVUUCR	33	211121 P32	012	
032	SPIRE SLW Bias B1 . SHD03	SSD.I	-	S038	021BS-38	38		Cable S038 Shd daisy ch to Gnd Wire B4	CVUUCR	33	211121 P32	032	
021	SPIRE SLW Bias B2 . +ve	SSD.I	-	S039	021BS-38	39			CVUUCR	33	211121 P32	021	
020	SPIRE SLW Bias B2 . -ve	SSD.I	-	S039	021BS-38	39			CVUUCR	33	211121 P32	020	
032	SPIRE SLW Bias B2 . SHD04	SSD.I	-	S039	021BS-38	39		Cable S039 Shd daisy ch to Gnd Wire B4	CVUUCR	33	211121 P32	032	
032	SPIRE SLW GND Wire B4	SSX.-	-	S407	010B0-30			Gnd Wire B4 con to Cable 23,28,38,39 Shd	CVUUCR	33	211121 P32	032	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 312200 J06

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 01)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
031	SPIRE SLW JFETV B1 . +ve	SSF.1	-	S028	021BS-38	28			CVVUCR	33	211121 P32	031	
043	SPIRE SLW JFETV B1 . -ve	SSF.1	-	S028	021BS-38	28		Cable S028 Shd daisy ch to Gnd Wire B4	CVVUCR	33	211121 P32	043	
032	SPIRE SLW JFETV B1 . SHD05	SSF.1	-	S028	021BS-38	28			CVVUCR	33	211121 P32	032	
042	SPIRE SLW JFETV B2 . +ve	SSF.1	-	S023	021BS-38	23			CVVUCR	33	211121 P32	042	
054	SPIRE SLW JFETV B2 . -ve	SSF.1	-	S023	021BS-38	23			CVVUCR	33	211121 P32	054	
032	SPIRE SLW JFETV B2 . SHD06	SSF.1	-	S023	021BS-38	23		Cable S023 Shd daisy ch to Gnd Wire B4	CVVUCR	33	211121 P32	032	
010	SPIRE SSW Bias B1 . +ve	SSC.1	-	S042	021BS-38	42			CVVUCR	33	211121 P32	010	
011	SPIRE SSW Bias B1 . -ve	SSC.1	-	S042	021BS-38	42			CVVUCR	33	211121 P32	011	
040	SPIRE SSW Bias B1 . SHD07	SSC.1	-	S042	021BS-38	42		Cable S042 Shd daisy ch to Gnd Wire C4	CVVUCR	33	211121 P32	040	
019	SPIRE SSW JFETV B1 . +ve	SSE.1	-	S035	021BS-38	35			CVVUCR	33	211121 P32	019	
029	SPIRE SSW JFETV B1 . -ve	SSE.1	-	S035	021BS-38	35			CVVUCR	33	211121 P32	029	
040	SPIRE SSW JFETV B1 . SHD08	SSE.1	-	S035	021BS-38	35		Cable S035 Shd daisy ch to Gnd Wire C4	CVVUCR	33	211121 P32	040	
040	SPIRE SSW GND Wire C4	SSX.-	-	S408	010B0-30			GND Wire C4 con to Cable 35,36,42,44 Shd	CVVUCR	33	211121 P32	040	
041	SPIRE SSW Bias B2 . +ve	SSC.1	-	S044	021BS-38	44			CVVUCR	33	211121 P32	041	
030	SPIRE SSW Bias B2 . -ve	SSC.1	-	S044	021BS-38	44			CVVUCR	33	211121 P32	030	
040	SPIRE SSW Bias B2 . SHD09	SSC.1	-	S044	021BS-38	44		Cable S044 Shd daisy ch to Gnd Wire C4	CVVUCR	33	211121 P32	040	
053	SPIRE SSW JFETV B2 . +ve	SSE.1	-	S036	021BS-38	36			CVVUCR	33	211121 P32	053	
052	SPIRE SSW JFETV B2 . -ve	SSE.1	-	S036	021BS-38	36			CVVUCR	33	211121 P32	052	
040	SPIRE SSW JFETV B2 . SHD10	SSE.1	-	S036	021BS-38	36		Cable S036 Shd daisy ch to Gnd Wire C4	CVVUCR	33	211121 P32	040	
039	SPIRE S_Heater GND D4	SSX.-	-	S409	010B0-30			GND Wire D4 con to Cable 40, 46,47 Shd	CVVUCR	33	211121 P32	039	
018	SPIRE SLW JFET Htr B . +ve	SSH.-	-	S046	021BS-38	46			CVVUCR	33	211121 P32	018	
028	SPIRE SLW JFET Htr B . -ve	SSH.-	-	S046	021BS-38	46			CVVUCR	33	211121 P32	028	

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 312200 J06  
**Item:** HSSVMCB2  
**EMC-Category:** 2I/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 01)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
039	SPIRE SLW JFET Htr B . SHD13	SSH-	-	S046	021BS-38	46		Cable S046 Shd daisy ch to Gnd Wire D4	CVUUCR	33	211121 P32	039	
009	SPIRE SSW JFET Htr B . +ve	SSG-	-	S047	021BS-38	47			CVUUCR	33	211121 P32	009	
017	SPIRE SSW JFET Htr B . -ve	SSG-	-	S047	021BS-38	47			CVUUCR	33	211121 P32	017	
039	SPIRE SSW JFET Htr B . SHD12	SSG-	-	S047	021BS-38	47		Cable S047 Shd daisy ch to Gnd Wire D4	CVUUCR	33	211121 P32	039	
016	SPIRE PTC JFET Htr B . +ve	S3B-	-	S040	021BS-38	40			CVUUCR	33	211121 P32	016	
027	SPIRE PTC JFET Htr B . -ve	S3B-	-	S040	021BS-38	40			CVUUCR	33	211121 P32	027	
039	SPIRE PTC JFET Htr B . SHD11	SHD	S3B-	S040	021BS-38	40		Cable S040 Shd daisy ch to Gnd Wire D4	CVUUCR	33	211121 P32	039	
-	Faraday Link							Cable from P10 Faraday Shd con to Busbar					
005	Faraday Pins							Connected to Busbar ECR 0039 tbc					
006	Faraday Pins							Connected to Busbar ECR 0039 tbc					
015	Faraday Pins							Connected to Busbar ECR 0039 tbc					
022	Faraday Pins							Connected to Busbar ECR 0039 tbc					
025	Faraday Pins							Connected to Busbar ECR 0039					
036	Faraday Pins							Connected to Busbar ECR 0039 tbc					
039	Faraday Pins							Connected to Ring Wire ECR 0039 tbc					
047	Faraday Pins							Connected to Ring Wire ECR 0039 tbc					
058	Faraday Pins							Connected to Busbar ECR 0039 tbc					
082	Faraday Pins							Connected to Busbar ECR 0039 tbc					
094	Faraday Pins							Connected to Busbar ECR 0039 tbc					
105	Faraday Pins							Connected to Busbar ECR 0039 tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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Connector: 312200 J06

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CWWFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 01)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
123	Faraday Pins							Conected to Busbar ECR 0039 tbc					
124	Faraday Pins							Conected to Busbar ECR 0039 tbc					
125	Faraday Pins							Conected to Busbar ECR 0039 tbc					
126	Faraday Pins							Conected to Busbar ECR 0039 tbc					
127	Faraday Pins							Conected to Busbar ECR 0039 tbc					
128	Faraday Pins							Conected to Busbar ECR 0039 tbc					
-	-												
CH	Connector Housing							CH Isolated from Faraday Shd					
-	Insulating jacket							Insulating jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd							Bundle Overall Shd con to Backshell					





For wiring Schematic  
 See SH-1S-02 CVVUCR P 3A

Connector: 312200 J05  
 Item: HSSVMCB2

Conn.-Type: SCC340104401B032435P  
 Backshell: 440 FS 110 M 24 03

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 02)  
 Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
047	SPIRE B02 GND Wire A1	SSX.- -	S421	010B0-30			Con to Cable from P01 GND/Shds	CVVUCR	33	211121 P31	047	
090	SPIRE SSW Ch01-04 . 1+	SSA.I -	S051	021SS-38	1		SSW-R1	CVVUCR	33	211121 P31	090	
079	SPIRE SSW Ch01-04 . 1-	SSA.I -	S051	021SS-38	1			CVVUCR	33	211121 P31	079	
047	SPIRE SSW Ch01-04 . 1gnd	SSA.I -	S051	021SS-38	1		Daisy ch to Pin 047 (A1)	CVVUCR	33	211121 P31	047	
102	SPIRE SSW Ch01-04 . 2+	SSA.I -	S051	021SS-38	1		SSW-A4	CVVUCR	33	211121 P31	102	
101	SPIRE SSW Ch01-04 . 2-	SSA.I -	S051	021SS-38	1			CVVUCR	33	211121 P31	101	
047	SPIRE SSW Ch01-04 . 2gnd	SSA.I -	S051	021SS-38	1		Daisy ch to Pin 047 (A1)	CVVUCR	33	211121 P31	047	
092	SPIRE SSW Ch01-04 . 3+	SSA.I -	S051	021SS-38	1		SSW-A3	CVVUCR	33	211121 P31	092	
091	SPIRE SSW Ch01-04 . 3-	SSA.I -	S051	021SS-38	1			CVVUCR	33	211121 P31	091	
047	SPIRE SSW Ch01-04 . 3gnd	SSA.I -	S051	021SS-38	1		Daisy ch to Pin 047 (A1)	CVVUCR	33	211121 P31	047	
103	SPIRE SSW Ch01-04 . 4+	SSA.I -	S051	021SS-38	1		SSW-A2	CVVUCR	33	211121 P31	103	
113	SPIRE SSW Ch01-04 . 4-	SSA.I -	S051	021SS-38	1			CVVUCR	33	211121 P31	113	
047	SPIRE SSW Ch01-04 . 4gnd	SSA.I -	S051	021SS-38	1		Daisy ch to Pin 047 (A1)	CVVUCR	33	211121 P31	047	
058	SPIRE SSW Ch05-08 . 5+	SSA.I -	S052	021SS-38	2		SSW-A1	CVVUCR	33	211121 P31	058	
046	SPIRE SSW Ch05-08 . 5-	SSA.I -	S052	021SS-38	2			CVVUCR	33	211121 P31	046	
047	SPIRE SSW Ch05-08 . 5gnd	SSA.I -	S052	021SS-38	2		Daisy ch to Pin 047 (A1)	CVVUCR	33	211121 P31	047	
068	SPIRE SSW Ch05-08 . 6+	SSA.I -	S052	021SS-38	2			CVVUCR	33	211121 P31	068	
057	SPIRE SSW Ch05-08 . 6-	SSA.I -	S052	021SS-38	2		SSW-DK1	CVVUCR	33	211121 P31	057	
047	SPIRE SSW Ch05-08 . 6gnd	SSA.I -	S052	021SS-38	2		Daisy ch to Pin 047 (A1)	CVVUCR	33	211121 P31	047	
069	SPIRE SSW Ch05-08 . 7+	SSA.I -	S052	021SS-38	2		SSW-B3	CVVUCR	33	211121 P31	069	
080	SPIRE SSW Ch05-08 . 7-	SSA.I -	S052	021SS-38	2			CVVUCR	33	211121 P31	080	
047	SPIRE SSW Ch05-08 . 7gnd	SSA.I -	S052	021SS-38	2		Daisy ch to Pin 047 (A1)	CVVUCR	33	211121 P31	047	
070	SPIRE SSW Ch05-08 . 8+	SSA.I -	S052	021SS-38	2		SSW-B2	CVVUCR	33	211121 P31	070	
081	SPIRE SSW Ch05-08 . 8-	SSA.I -	S052	021SS-38	2			CVVUCR	33	211121 P31	081	
047	SPIRE SSW Ch05-08 . 8gnd	SSA.I -	S052	021SS-38	2		Daisy ch to Pin 047 (A1)	CVVUCR	33	211121 P31	047	
023	SPIRE SSW Ch09-12 . 9+	SSA.I -	S054	021SS-38	3		SSW-B1	CVVUCR	33	211121 P31	023	
034	SPIRE SSW Ch09-12 . 9-	SSA.I -	S054	021SS-38	3			CVVUCR	33	211121 P31	034	

# Pin Allocation List

(Harness)

**Connector:** 312200 J05  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 02)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
047	SPIRE SSW Ch09-12 . 9gnd	SSA.I	-	S054	021SS-38	3		Daisy ch to Pin 047 (A1)	CVUUCR	33	211121 P31	047	
033	SPIRE SSW Ch09-12 . 10+	SSA.I	-	S054	021SS-38	3		SSW-C3	CVUUCR	33	211121 P31	033	
045	SPIRE SSW Ch09-12 . 10-	SSA.I	-	S054	021SS-38	3			CVUUCR	33	211121 P31	045	
047	SPIRE SSW Ch09-12 . 10gnd	SSA.I	-	S054	021SS-38	3		Daisy ch to Pin 047 (A1)	CVUUCR	33	211121 P31	047	
044	SPIRE SSW Ch09-12 . 11+	SSA.I	-	S054	021SS-38	3		SSW-C2	CVUUCR	33	211121 P31	044	
056	SPIRE SSW Ch09-12 . 11-	SSA.I	-	S054	021SS-38	3			CVUUCR	33	211121 P31	056	
047	SPIRE SSW Ch09-12 . 11gnd	SSA.I	-	S054	021SS-38	3		Daisy ch to Pin 047 (A1)	CVUUCR	33	211121 P31	047	
022	SPIRE SSW Ch09-12 . 12+	SSA.I	-	S054	021SS-38	3		SSW-C1	CVUUCR	33	211121 P31	022	
032	SPIRE SSW Ch09-12 . 12-	SSA.I	-	S054	021SS-38	3			CVUUCR	33	211121 P31	032	
047	SPIRE SSW Ch09-12 . 12gnd	SSA.I	-	S054	021SS-38	3		Daisy ch to Pin 047 (A1)	CVUUCR	33	211121 P31	047	
-	Faraday Link							Cable from P01 Faraday Shd con to Busbar					
128	SPIRE B02 GND Wire A2	SSX.-	-	S422	010B0-30			Con to Cable from P02 GND/Shds	CVUUCR	33	211121 P31	128	
086	SPIRE SSW Ch13-16 . 13+	SSA.I	-	S055	021SS-38	4		SSW-D3	CVUUCR	33	211121 P31	086	
087	SPIRE SSW Ch13-16 . 13-	SSA.I	-	S055	021SS-38	4			CVUUCR	33	211121 P31	087	
128	SPIRE SSW Ch13-16 . 13gnd	SSA.I	-	S055	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P31	128	
097	SPIRE SSW Ch13-16 . 14+	SSA.I	-	S055	021SS-38	4		SSW-D2	CVUUCR	33	211121 P31	097	
098	SPIRE SSW Ch13-16 . 14-	SSA.I	-	S055	021SS-38	4			CVUUCR	33	211121 P31	098	
128	SPIRE SSW Ch13-16 . 14gnd	SSA.I	-	S055	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P31	128	
108	SPIRE SSW Ch13-16 . 15+	SSA.I	-	S055	021SS-38	4		SSW-D1	CVUUCR	33	211121 P31	108	
109	SPIRE SSW Ch13-16 . 15-	SSA.I	-	S055	021SS-38	4			CVUUCR	33	211121 P31	109	
128	SPIRE SSW Ch13-16 . 15gnd	SSA.I	-	S055	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P31	128	
116	SPIRE SSW Ch13-16 . 16+	SSA.I	-	S055	021SS-38	4		SSW-E3	CVUUCR	33	211121 P31	116	
117	SPIRE SSW Ch13-16 . 16-	SSA.I	-	S055	021SS-38	4			CVUUCR	33	211121 P31	117	
128	SPIRE SSW Ch13-16 . 16gnd	SSA.I	-	S055	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P31	128	
128	SPIRE SSW Ch13-16 . SHD01	SSA.I	-	S055	021SS-38	4		Cable S055 Shd daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P31	128	



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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 312200 J05

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 02)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
055	SPIRE SSW Ch17-20 . 17+	SSA.I	-	S056	021SS-38	5		SSW-E2	CVVUCR	33	211121 P31	055	
066	SPIRE SSW Ch17-20 . 17-	SSA.I	-	S056	021SS-38	5			CVVUCR	33	211121 P31	066	
128	SPIRE SSW Ch17-20 . 17gnd	SSA.I	-	S056	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
067	SPIRE SSW Ch17-20 . 18+	SSA.I	-	S056	021SS-38	5		SSW-E1	CVVUCR	33	211121 P31	067	
078	SPIRE SSW Ch17-20 . 18-	SSA.I	-	S056	021SS-38	5			CVVUCR	33	211121 P31	078	
128	SPIRE SSW Ch17-20 . 18gnd	SSA.I	-	S056	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
076	SPIRE SSW Ch17-20 . 19+	SSA.I	-	S056	021SS-38	5		SSW-F3	CVVUCR	33	211121 P31	076	
077	SPIRE SSW Ch17-20 . 19-	SSA.I	-	S056	021SS-38	5			CVVUCR	33	211121 P31	077	
128	SPIRE SSW Ch17-20 . 19gnd	SSA.I	-	S056	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
088	SPIRE SSW Ch17-20 . 20+	SSA.I	-	S056	021SS-38	5		SSW-F2	CVVUCR	33	211121 P31	088	
089	SPIRE SSW Ch17-20 . 20-	SSA.I	-	S056	021SS-38	5			CVVUCR	33	211121 P31	089	
128	SPIRE SSW Ch17-20 . 20gnd	SSA.I	-	S056	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
128	SPIRE SSW Ch17-20 . SHD02	SSA.I	-	S056	021SS-38	5		Cable S056 Shd daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
099	SPIRE SSW Ch21-24 . 21+	SSA.I	-	S058	021SS-38	6		SSW-F1	CVVUCR	33	211121 P31	099	
100	SPIRE SSW Ch21-24 . 21-	SSA.I	-	S058	021SS-38	6			CVVUCR	33	211121 P31	100	
128	SPIRE SSW Ch21-24 . 21gnd	SSA.I	-	S058	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
110	SPIRE SSW Ch21-24 . 22+	SSA.I	-	S058	021SS-38	6		SSW-G1	CVVUCR	33	211121 P31	110	
111	SPIRE SSW Ch21-24 . 22-	SSA.I	-	S058	021SS-38	6			CVVUCR	33	211121 P31	111	
128	SPIRE SSW Ch21-24 . 22gnd	SSA.I	-	S058	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
118	SPIRE SSW Ch21-24 . 23+	SSA.I	-	S058	021SS-38	6		SSW-T1	CVVUCR	33	211121 P31	118	
119	SPIRE SSW Ch21-24 . 23-	SSA.I	-	S058	021SS-38	6			CVVUCR	33	211121 P31	119	
128	SPIRE SSW Ch21-24 . 23gnd	SSA.I	-	S058	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
112	SPIRE SSW Ch21-24 . 24+	SSA.I	-	S058	021SS-38	6		SSW-G2	CVVUCR	33	211121 P31	112	
120	SPIRE SSW Ch21-24 . 24-	SSA.I	-	S058	021SS-38	6			CVVUCR	33	211121 P31	120	
128	SPIRE SSW Ch21-24 . 24gnd	SSA.I	-	S058	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P31	128	
128	SPIRE SSW Ch21-24 . SHD03	SSA.I	-	S058	021SS-38	6		Cable S058 Shd daisy ch to Pin 128 at CVV side (A2)	CVVUCR	33	211121 P31	128	

# Pin Allocation List (Harness)

**Connector:** 312200 J05  
**Item:** HSSVMCB2  
**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 02)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Circuit	Signal	Pos.	Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
							Shd	Cable Twist						
-	Faraday Link													
005	SPIRE B02 GND Wire A4	SSX	-		S424	010B0-30			Cable from P02 Faraday Shd con to Busbar	CVVUCR	33	211121 P31	005	
013	SPIRE SSW Ch25-28 . 25+	SSA	I		S059	021SS-38	7		SSW-E5	CVVUCR	33	211121 P31	013	
012	SPIRE SSW Ch25-28 . 25-	SSA	I		S059	021SS-38	7		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	012	
005	SPIRE SSW Ch25-28 . 25gnd	SSA	I		S059	021SS-38	7		SSW-E4	CVVUCR	33	211121 P31	005	
021	SPIRE SSW Ch25-28 . 26+	SSA	I		S059	021SS-38	7		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	021	
020	SPIRE SSW Ch25-28 . 26-	SSA	I		S059	021SS-38	7		SSW-D7	CVVUCR	33	211121 P31	020	
005	SPIRE SSW Ch25-28 . 26gnd	SSA	I		S059	021SS-38	7		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	005	
031	SPIRE SSW Ch25-28 . 27+	SSA	I		S059	021SS-38	7		SSW-D6	CVVUCR	33	211121 P31	031	
043	SPIRE SSW Ch25-28 . 27-	SSA	I		S059	021SS-38	7		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	043	
005	SPIRE SSW Ch25-28 . 27gnd	SSA	I		S059	021SS-38	7		SSW-D5	CVVUCR	33	211121 P31	005	
042	SPIRE SSW Ch25-28 . 28+	SSA	I		S059	021SS-38	7		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	042	
054	SPIRE SSW Ch25-28 . 28-	SSA	I		S059	021SS-38	7		Cable S059 Shd daisy ch to Pin 05 (A4)	CVVUCR	33	211121 P31	054	
005	SPIRE SSW Ch25-28 . 28gnd	SSA	I		S059	021SS-38	7		SSW-D4	CVVUCR	33	211121 P31	005	
005	SPIRE SSW Ch25-28 . SHD01	SSA	I		S059	021SS-38	7		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	005	
010	SPIRE SSW Ch29-32 . 29+	SSA	I		S060	021SS-38	8		SSW-D5	CVVUCR	33	211121 P31	010	
011	SPIRE SSW Ch29-32 . 29-	SSA	I		S060	021SS-38	8		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	011	
005	SPIRE SSW Ch29-32 . 29gnd	SSA	I		S060	021SS-38	8		SSW-D4	CVVUCR	33	211121 P31	005	
019	SPIRE SSW Ch29-32 . 30+	SSA	I		S060	021SS-38	8		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	019	
029	SPIRE SSW Ch29-32 . 30-	SSA	I		S060	021SS-38	8		SSW-C6	CVVUCR	33	211121 P31	029	
005	SPIRE SSW Ch29-32 . 30gnd	SSA	I		S060	021SS-38	8		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	005	
041	SPIRE SSW Ch29-32 . 31+	SSA	I		S060	021SS-38	8		SSW-C5	CVVUCR	33	211121 P31	041	
030	SPIRE SSW Ch29-32 . 31-	SSA	I		S060	021SS-38	8		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	030	
005	SPIRE SSW Ch29-32 . 31gnd	SSA	I		S060	021SS-38	8		SSW-C5	CVVUCR	33	211121 P31	005	
053	SPIRE SSW Ch29-32 . 32+	SSA	I		S060	021SS-38	8		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	053	
052	SPIRE SSW Ch29-32 . 32-	SSA	I		S060	021SS-38	8		SSW-C5	CVVUCR	33	211121 P31	052	

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# Pin Allocation List (Harness)

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**Connector:** 312200 J05  
**Item:** HSSVMCB2  
**EMC-Category:** 2/ISig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 02)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
005	SPIRE SSW Ch29-32 . 32gnd	SSA.I	-	S060	021SS-38	8		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	005	
-	SPIRE SSW Ch29-32 . SHD02	SSA.I	-	S060	021SS-38	8		Cable S060 Shd daisy ch to Pin 05 (A4)	CVVUCR	33	211121 P31		
-													
009	SPIRE SSW Ch33-36 . 33+	SSA.I	-	S062	021SS-38	9		SSW-C4	CVVUCR	33	211121 P31	009	
017	SPIRE SSW Ch33-36 . 33-	SSA.I	-	S062	021SS-38	9			CVVUCR	33	211121 P31	017	
005	SPIRE SSW Ch33-36 . 33gnd	SSA.I	-	S062	021SS-38	9		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	005	
-													
018	SPIRE SSW Ch33-36 . 34+	SSA.I	-	S062	021SS-38	9		SSW-B5	CVVUCR	33	211121 P31	018	
028	SPIRE SSW Ch33-36 . 34-	SSA.I	-	S062	021SS-38	9			CVVUCR	33	211121 P31	028	
005	SPIRE SSW Ch33-36 . 34gnd	SSA.I	-	S062	021SS-38	9		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	005	
-													
016	SPIRE SSW Ch33-36 . 35+	SSA.I	-	S062	021SS-38	9			CVVUCR	33	211121 P31	016	
027	SPIRE SSW Ch33-36 . 35-	SSA.I	-	S062	021SS-38	9		SSW-B4	CVVUCR	33	211121 P31	027	
005	SPIRE SSW Ch33-36 . 35gnd	SSA.I	-	S062	021SS-38	9		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	005	
-													
040	SPIRE SSW Ch33-36 . 36+	SSA.I	-	S062	021SS-38	9		SSW-T2	CVVUCR	33	211121 P31	040	
039	SPIRE SSW Ch33-36 . 36-	SSA.I	-	S062	021SS-38	9			CVVUCR	33	211121 P31	039	
005	SPIRE SSW Ch33-36 . 36gnd	SSA.I	-	S062	021SS-38	9		Daisy ch to Pin 005 (A4)	CVVUCR	33	211121 P31	005	
-													
-	Faraday Link							Cable from P04 Faraday Shd con to Busbar					
-													
036	SPIRE B02 GND Wire A3	SSX.-	-	S423	010B0-30			Con to Cable from P03 GND/Shds	CVVUCR	33	211121 P31	036	
-													
063	SPIRE SSW Spare1/2 . 1+		-					Not a wire, not routed in I Harness !!!					
075	SPIRE SSW Spare1/2 . 1-		-					Not a wire, not routed in I Harness !!!					
036	SPIRE SSW Spare1/2 . 1gnd		-					Not a wire, not routed in I Harness !!!					
-													
074	SPIRE SSW Spare1/2 . 2+		-					Not a wire, not routed in I Harness !!!					
073	SPIRE SSW Spare1/2 . 2-		-					Not a wire, not routed in I Harness !!!					

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## Pin Allocation List (Harness)

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**Connector:** 312200 J05  
**Item:** HSSVMCB2  
**EMC-Category:** 2I/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 02)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE SSW Spare1/2 . 2gnd	-	-	-	-	-	-	Not a wire, not routed in I Harness !!!					
026	SPIRE SSW Ch37-40 . 37+	SSA.I	-	S063	021SS-38	10			CVVUCR	33	211121 P31	026	
037	SPIRE SSW Ch37-40 . 37-	SSA.I	-	S063	021SS-38	10		SSW-G3	CVVUCR	33	211121 P31	037	
036	SPIRE SSW Ch37-40 . 37gnd	SSA.I	-	S063	021SS-38	10		Daisy ch to Pin 036 (A3)	CVVUCR	33	211121 P31	036	
038	SPIRE SSW Ch37-40 . 38+	SSA.I	-	S063	021SS-38	10			CVVUCR	33	211121 P31	038	
049	SPIRE SSW Ch37-40 . 38-	SSA.I	-	S063	021SS-38	10		SSW-G4	CVVUCR	33	211121 P31	049	
036	SPIRE SSW Ch37-40 . 38gnd	SSA.I	-	S063	021SS-38	10		Daisy ch to Pin 036 (A3)	CVVUCR	33	211121 P31	036	
048	SPIRE SSW Ch37-40 . 39+	SSA.I	-	S063	021SS-38	10			CVVUCR	33	211121 P31	048	
060	SPIRE SSW Ch37-40 . 39-	SSA.I	-	S063	021SS-38	10		SSW-DK2	CVVUCR	33	211121 P31	060	
036	SPIRE SSW Ch37-40 . 39gnd	SSA.I	-	S063	021SS-38	10		Daisy ch to Pin 036 (A3)	CVVUCR	33	211121 P31	036	
059	SPIRE SSW Ch37-40 . 40+	SSA.I	-	S063	021SS-38	10			CVVUCR	33	211121 P31	059	
071	SPIRE SSW Ch37-40 . 40-	SSA.I	-	S063	021SS-38	10		SSW-F5	CVVUCR	33	211121 P31	071	
036	SPIRE SSW Ch37-40 . 40gnd	SSA.I	-	S063	021SS-38	10		Daisy ch to Pin 036 (A3)	CVVUCR	33	211121 P31	036	
036	SPIRE SSW Ch37-40 . SHD01	SSA.I	-	S063	021SS-38	10		Cable S063 Shd daisy ch to Pin 36 (A3)	CVVUCR	33	211121 P31	036	
050	SPIRE SSW Ch41-42 . 41+	SSA.I	-	S064	021SS-38	11			CVVUCR	33	211121 P31	050	
061	SPIRE SSW Ch41-42 . 41-	SSA.I	-	S064	021SS-38	11		SSW-F4	CVVUCR	33	211121 P31	061	
036	SPIRE SSW Ch41-42 . 41gnd	SSA.I	-	S064	021SS-38	11		Daisy ch to Pin 036 (A3)	CVVUCR	33	211121 P31	036	
062	SPIRE SSW Ch41-42 . 42+	SSA.I	-	S064	021SS-38	11			CVVUCR	33	211121 P31	062	
051	SPIRE SSW Ch41-42 . 42-	SSA.I	-	S064	021SS-38	11		SSW-E6	CVVUCR	33	211121 P31	051	
036	SPIRE SSW Ch41-42 . 42gnd	SSA.I	-	S064	021SS-38	11		Daisy ch to Pin 036 (A3)	CVVUCR	33	211121 P31	036	
036	SPIRE SSW Ch41-42 . SHD02	SSA.I	-	S064	021SS-38	10		Cable S064 Shd daisy ch to Pin 36 (A3)	CVVUCR	33	211121 P31	036	
-	Faraday Link							Cable from P03 Faraday Shd con to Busbar					
082	SPIRE B02 GND Wire A5	SSX.-	-	S425	010B0-30			Con to Cable from P07 GND/Shds	CVVUCR	33	211121 P31	082	
095	SPIRE SSW PTC Ch's . 1+	S3D.I	-	S053	021SS-38	13			CVVUCR	33	211121 P31	095	

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## Pin Allocation List (Harness)

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Connector: 312200 J05

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 02)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
084	SPIRE SSW PTC Ch's . 1-	S3D.I -		S053	021SS-38	13		PTC-1	CVVUCR	33	211121 P31	084	
082	SPIRE SSW PTC Ch's . 1gnd	S3D.I -		S053	021SS-38	13		Daisy ch to Pin 082 (B5)	CVVUCR	33	211121 P31	082	
096	SPIRE SSW PTC Ch's . 2+	S3D.I -		S053	021SS-38	13		PTC-2	CVVUCR	33	211121 P31	096	
085	SPIRE SSW PTC Ch's . 2-	S3D.I -		S053	021SS-38	13		Daisy ch to Pin 082 (B5)	CVVUCR	33	211121 P31	085	
082	SPIRE SSW PTC Ch's . 2gnd	S3D.I -		S053	021SS-38	13			CVVUCR	33	211121 P31	082	
106	SPIRE SSW PTC Ch's . 3+	S3D.I -		S053	021SS-38	13		PTC-3	CVVUCR	33	211121 P31	106	
107	SPIRE SSW PTC Ch's . 3-	S3D.I -		S053	021SS-38	13		Daisy ch to Pin 082 (B5)	CVVUCR	33	211121 P31	107	
082	SPIRE SSW PTC Ch's . 3gnd	S3D.I -		S053	021SS-38	13			CVVUCR	33	211121 P31	082	
083	SPIRE SSW PTC (5MOhm) . Res+	S3D.I -		S248	021SS-38	12			CVVUCR	33	211121 P31	083	
072	SPIRE SSW PTC (5MOhm) . Res-	S3D.I -		S248	021SS-38	12		5M-1	CVVUCR	33	211121 P31	072	
082	SPIRE SSW PTC (5MOhm) . Rgnd	S3D.I -		S248	021SS-38	12		Daisy ch to Pin 082 (B5)	CVVUCR	33	211121 P31	082	
-	Faraday Link							Cable from P07 Faraday Shd con to Busbar					
-	Faraday Shield Pins							Connected to Bus Bar ECR0039					
001	Faraday Shield Pins							tbc					
002	Faraday Shield Pins							Connected to Bus Bar ECR0039					
003	Faraday Shield Pins							tbc					
005	Faraday Shield Pins							Connected to Bus Bar ECR0039					
006	Faraday Shield Pins							tbc					
007	Faraday Shield Pins							Connected to Bus Bar ECR0039					
008	Faraday Shield Pins							tbc					
014	Faraday Shield Pins							Connected to Bus Bar ECR0039					
015	Faraday Shield Pins							tbc					
024	Faraday Shield Pins							Connected to Bus Bar ECR0039					
								tbc					

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## Pin Allocation List (Harness)

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**Connector:** 312200 J05

**Item:** HSSVMCB2

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 02)

**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P

**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
025	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
035	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
093	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
094	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
104	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
105	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
114	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
115	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
121	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
122	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
123	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
124	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
125	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
126	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
127	Faraday Shield Pins							Connected to Bus Bar ECR0039 tbc					
-	Connector Housing							CH isolated from Faraday Shd					
-	Insulating Jacket							Insulating jacket between Bundle Overall Shd and Faraday Shd					
-	Overall Shd							Bundel Overall Shd con to Backshell					



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# Pin Allocation List (Harness)

For wiring schematic  
see SH-15-03 CVUUCR P&G

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**Connector:** 312100 J04  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 03)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PSW_JFETV_GND A1	SPX.- -	S431	010B0-30			GND Wire A1 con to cable 176-185 Shd	CVUUCR	33	211121 P26	036	
026	SPIRE PSW_JFETV1_A . A+	SPL.I -	S176	021BS-38	1			CVUUCR	33	211121 P26	026	
037	SPIRE PSW_JFETV1_A . A-	SPL.I -	S176	021BS-38	1			CVUUCR	33	211121 P26	037	
036	SPIRE PSW_JFETV1_A . SHD01	SPL.I -	S176	021BS-38	1		Cabel S176 daisy ch to Pin 36 at CVV side (A1)	CVUUCR	33	211121 P26	036	
038	SPIRE PSW_JFETV2_A . A+	SPL.I -	S177	021BS-38	2			CVUUCR	33	211121 P26	038	
049	SPIRE PSW_JFETV2_A . A-	SPL.I -	S177	021BS-38	2			CVUUCR	33	211121 P26	049	
036	SPIRE PSW_JFETV2_A . SHD02	SPL.I -	S177	021BS-38	2		Cabel S177 Shd daisy ch to Pin 36 at CVV side (A1)	CVUUCR	33	211121 P26	036	
048	SPIRE PSW_JFETV3_A . A+	SPL.I -	S178	021BS-38	3			CVUUCR	33	211121 P26	048	
060	SPIRE PSW_JFETV3_A . A-	SPL.I -	S178	021BS-38	3			CVUUCR	33	211121 P26	060	
036	SPIRE PSW_JFETV3_A . SHD03	SPL.I -	S178	021BS-38	3		Cabel S178 Shd daisy ch to Pin 36 at CVV side (A1)	CVUUCR	33	211121 P26	036	
059	SPIRE PSW_JFETV4_A . A+	SPL.I -	S179	021BS-38	4			CVUUCR	33	211121 P26	059	
071	SPIRE PSW_JFETV4_A . A-	SPL.I -	S179	021BS-38	4			CVUUCR	33	211121 P26	071	
036	SPIRE PSW_JFETV4_A . SHD04	SPL.I -	S179	021BS-38	4		Cabel S179 Shd daisy ch to Pin 36 at CVV side (A1)	CVUUCR	33	211121 P26	036	
050	SPIRE PSW_JFETV5_A . A+	SPL.I -	S180	021BS-38	5			CVUUCR	33	211121 P26	050	
061	SPIRE PSW_JFETV5_A . A-	SPL.I -	S180	021BS-38	5			CVUUCR	33	211121 P26	061	
036	SPIRE PSW_JFETV5_A . SHD05	SPL.I -	S180	021BS-38	5		Cabel S180 Shd daisy ch to Pin 36 at CVV side (A1)	CVUUCR	33	211121 P26	036	
062	SPIRE PSW_JFETV6_A . A+	SPL.I -	S181	021BS-38	6			CVUUCR	33	211121 P26	062	
051	SPIRE PSW_JFETV6_A . A-	SPL.I -	S181	021BS-38	6			CVUUCR	33	211121 P26	051	
036	SPIRE PSW_JFETV6_A . SHD06	SPL.I -	S181	021BS-38	6		Cabel S181 Shd daisy ch to Pin 36 at CVV side (A1)	CVUUCR	33	211121 P26	036	
063	SPIRE PSW_Bias1/2_A . A+	SPK.I -	S183	021BS-38	7			CVUUCR	33	211121 P26	063	
075	SPIRE PSW_Bias1/2_A . A-	SPK.I -	S183	021BS-38	7			CVUUCR	33	211121 P26	075	
036	SPIRE PSW_Bias1/2_A . SHD07	SPK.I -	S183	021BS-38	7		Cabel S183 Shd daisy ch to Pin 36 at CVV side (A1)	CVUUCR	33	211121 P26	036	
074	SPIRE PSW_Bias3/4_A . A+	SPK.I -	S184	021BS-38	8			CVUUCR	33	211121 P26	074	
073	SPIRE PSW_Bias3/4_A . A-	SPK.I -	S184	021BS-38	8			CVUUCR	33	211121 P26	073	



# Pin Allocation List (Harness)

**Connector:** 312100 J04  
**Item:** HSSVMCB1  
**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 03)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)  
**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
036	SPIRE PSW_Bias3/4_A . SHD08	SPK.I	-	S184	021BS-38	8		Cabel S184 Shd daisy ch to Pin 36 at CVW side (A1)	CVWUCR	33	211121 P26	036	
083	SPIRE PSW_Bias5/6_A . A+	SPK.I	-	S185	021BS-38	9			CVWUCR	33	211121 P26	083	
072	SPIRE PSW_Bias5/6_A . A-	SPK.I	-	S185	021BS-38	9			CVWUCR	33	211121 P26	072	
036	SPIRE PSW_Bias5/6_A . SHD09	SPK.I	-	S185	021BS-38	9		Cabel S185 Shd daisy ch to Pin 36 at CVW side (A1)	CVWUCR	33	211121 P26	036	
095	SPIRE PSW_Heater_A1 . A1+	SPM.-	-	S186	021SS-38	10			CVWUCR	33	211121 P26	095	
084	SPIRE PSW_Heater_A1 . A1-	SPM.-	-	S186	021SS-38	10			CVWUCR	33	211121 P26	084	
105	SPIRE PSW_Heater_A1 . SHD10	SPM.-	-	S186	021SS-38	10		Cable Shd routed to Pin 105 at CVW side (routed as Gnd Wire B1)	CVWUCR	33	211121 P26	105	
096	SPIRE PSW_Heater_A2 . A2+	SPM.-	-	S187	021SS-38	11			CVWUCR	33	211121 P26	096	
085	SPIRE PSW_Heater_A2 . A2-	SPM.-	-	S187	021SS-38	11			CVWUCR	33	211121 P26	085	
105	SPIRE PSW_Heater_A2 . SHD11	SPM.-	-	S187	021SS-38	11		Cable Shd routed to Pin 105 at CVW side (routed as Gnd Wire B1)	CVWUCR	33	211121 P26	105	
106	SPIRE PSW_Heater_A3 . A3+	SPM.-	-	S188	021SS-38	12			CVWUCR	33	211121 P26	106	
107	SPIRE PSW_Heater_A3 . A3-	SPM.-	-	S188	021SS-38	12			CVWUCR	33	211121 P26	107	
105	SPIRE PSW_Heater_A3 . SHD12	SPM.-	-	S188	021SS-38	12		Cable Shd routed to Pin 105 at CVW side (B1)	CVWUCR	33	211121 P26	105	
105	SPIRE PSW_HTR GND B1	SPX.-	-	S432	010B0-30			Sum of Cable SHDs, not a Wire at J side	CVWUCR	33	211121 P26	105	
-	Faraday Link							Cable from P25 Faraday Shd con to Busbar ECR0039tbc					
001	SPIRE PSW_JFETV GND A3	SPX.-	-	S433	010B0-30			GND Wire A3 con to cable 205-214 Shd	CVWUCR	33	211121 P26	001	
042	SPIRE PSW_JFETV1_B . B+	SPL.I	-	S205	021BS-38	17			CVWUCR	33	211121 P26	042	
054	SPIRE PSW_JFETV1_B . B-	SPL.I	-	S205	021BS-38	17			CVWUCR	33	211121 P26	054	
001	SPIRE PSW_JFETV1_B . SHD01	SPL.I	-	S205	021BS-38	17		Cabel S205 Shd daisy ch to Pin 01 at CVW side (A3)	CVWUCR	33	211121 P26	001	
053	SPIRE PSW_JFETV2_B . B+	SPL.I	-	S206	021BS-38	18			CVWUCR	33	211121 P26	053	

# Pin Allocation List (Harness)

**Connector:** 312100 J04  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 03)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
052	SPIRE PSW_JFETV2_B . B-	SPL.I	-	S206	021BS-38	18		Cabel S206 Shd daisy ch to Pin 01 at CVV side (A3)	CVVUCR	33	211121 P26	052	
001	SPIRE PSW_JFETV2_B . SHD02	SPL.I	-	S206	021BS-38	18			CVVUCR	33	211121 P26	001	
041	SPIRE PSW_JFETV3_B . B+	SPL.I	-	S207	021BS-38	19		Cabel S207 Shd daisy ch to Pin 01 at CVV side (A3)	CVVUCR	33	211121 P26	041	
030	SPIRE PSW_JFETV3_B . B-	SPL.I	-	S207	021BS-38	19			CVVUCR	33	211121 P26	030	
001	SPIRE PSW_JFETV3_B . SHD03	SPL.I	-	S207	021BS-38	19			CVVUCR	33	211121 P26	001	
010	SPIRE PSW_JFETV4_B . B+	SPL.I	-	S208	021BS-38	20		Cabel S208 Shd daisy ch to Pin 01 at CVV side (A3)	CVVUCR	33	211121 P26	010	
011	SPIRE PSW_JFETV4_B . B-	SPL.I	-	S208	021BS-38	20			CVVUCR	33	211121 P26	011	
001	SPIRE PSW_JFETV4_B . SHD04	SPL.I	-	S208	021BS-38	20			CVVUCR	33	211121 P26	001	
019	SPIRE PSW_JFETV5_B . B+	SPL.I	-	S209	021BS-38	21		Cabel S209 Shd daisy ch to Pin 01 at CVV side (A3)	CVVUCR	33	211121 P26	019	
029	SPIRE PSW_JFETV5_B . B-	SPL.I	-	S209	021BS-38	21			CVVUCR	33	211121 P26	029	
001	SPIRE PSW_JFETV5_B . SHD05	SPL.I	-	S209	021BS-38	21			CVVUCR	33	211121 P26	001	
016	SPIRE PSW_JFETV6_B . B+	SPL.I	-	S210	021BS-38	22		Cabel S210 Shd daisy ch to Pin 01 at CVV side (A3)	CVVUCR	33	211121 P26	016	
027	SPIRE PSW_JFETV6_B . B-	SPL.I	-	S210	021BS-38	22			CVVUCR	33	211121 P26	027	
001	SPIRE PSW_JFETV6_B . SHD06	SPL.I	-	S210	021BS-38	22			CVVUCR	33	211121 P26	001	
040	SPIRE PSW_Bias1/2_B . B+	SPK.I	-	S212	021BS-38	14		Cabel S212 Shd daisy ch to Pin 01 at CVV side (A3)	CVVUCR	33	211121 P26	040	
039	SPIRE PSW_Bias1/2_B . B-	SPK.I	-	S212	021BS-38	14			CVVUCR	33	211121 P26	039	
001	SPIRE PSW_Bias1/2_B . SHD07	SPK.I	-	S212	021BS-38	14			CVVUCR	33	211121 P26	001	
018	SPIRE PSW_Bias3/4_B . B+	SPK.I	-	S213	021BS-38	15		Cabel S213 Shd daisy ch to Pin 01 at CVV side (A3)	CVVUCR	33	211121 P26	018	
028	SPIRE PSW_Bias3/4_B . B-	SPK.I	-	S213	021BS-38	15			CVVUCR	33	211121 P26	028	
001	SPIRE PSW_Bias3/4_B . SHD08	SPK.I	-	S213	021BS-38	15			CVVUCR	33	211121 P26	001	
009	SPIRE PSW_Bias5/6_B . B+	SPK.I	-	S214	021BS-38	16		Cabel S214 Shd daisy ch to Pin 01 at CVV side (A3)	CVVUCR	33	211121 P26	009	
017	SPIRE PSW_Bias5/6_B . B-	SPK.I	-	S214	021BS-38	16			CVVUCR	33	211121 P26	017	
001	SPIRE PSW_Bias5/6_B . SHD09	SPK.I	-	S214	021BS-38	16			CVVUCR	33	211121 P26	001	

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-4 (of 9)

**Connector:** 312100 J04  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 03)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
005	SPIRE PSW_HTR_GND_B3	SPX	-	S434	010B0-30			Sum of Cable SHDs, not a Wire at J side	CVVUCR	33	211121 P26	005	
013	SPIRE PSW_Heater_B1 . B1+	SPM	-	S215	021SS-38	23			CVVUCR	33	211121 P26	013	
012	SPIRE PSW_Heater_B1 . B1-	SPM	-	S215	021SS-38	23			CVVUCR	33	211121 P26	012	
005	SPIRE PSW_Heater_B1 . SHD10	SPM	-	S215	021SS-38	23		Cable Shd routed to Pin 005 at CVV side (routed as Gnd Wire B2)	CVVUCR	33	211121 P26	005	
021	SPIRE PSW_Heater_B2 . B2+	SPM	-	S216	021SS-38	24			CVVUCR	33	211121 P26	021	
020	SPIRE PSW_Heater_B2 . B2-	SPM	-	S216	021SS-38	24			CVVUCR	33	211121 P26	020	
005	SPIRE PSW_Heater_B2 . SHD11	SPM	-	S216	021SS-38	24		Cable Shd routed to Pin 005 at CVV side (routed as Gnd Wire B2)	CVVUCR	33	211121 P26	005	
031	SPIRE PSW_Heater_B3 . B3+	SPM	-	S217	021SS-38	25			CVVUCR	33	211121 P26	031	
043	SPIRE PSW_Heater_B3 . B3-	SPM	-	S217	021SS-38	25			CVVUCR	33	211121 P26	043	
005	SPIRE PSW_Heater_B3 . SHD12	SPM	-	S217	021SS-38	25		Cable Shd routed to Pin 005 at CVV side (B2)	CVVUCR	33	211121 P26	005	
-	Faraday Link							Cable from P26 Faraday Shd con to Busbar ECR0039tbc					
064	SPIRE PMW_GND_A2	SPX	-	S435	010B0-30			GND Wire A2 con to cable 190-195 Shd	CVVUCR	33	211121 P26	064	
086	SPIRE PMW_JFETV1_A . A+	SPH	I	S190	021BS-38	34			CVVUCR	33	211121 P26	086	
087	SPIRE PMW_JFETV1_A . A-	SPH	I	S190	021BS-38	34			CVVUCR	33	211121 P26	087	
064	SPIRE PMW_JFETV1_A . SHD01	SPH	I	S190	021BS-38	34		Cabel S190 Shd daisy ch to Pin 64 at CVW side (A2)	CVVUCR	33	211121 P26	064	
097	SPIRE PMW_JFETV2_A . A+	SPH	I	S191	021BS-38	35			CVVUCR	33	211121 P26	097	
098	SPIRE PMW_JFETV2_A . A-	SPH	I	S191	021BS-38	35			CVVUCR	33	211121 P26	098	
064	SPIRE PMW_JFETV2_A . SHD02	SPH	I	S191	021BS-38	35		Cabel S191 Shd daisy ch to Pin 64 at CVV side (A2)	CVVUCR	33	211121 P26	064	
108	SPIRE PMW_JFETV3_A . A+	SPH	I	S192	021BS-38	36			CVVUCR	33	211121 P26	108	
109	SPIRE PMW_JFETV3_A . A-	SPH	I	S192	021BS-38	36			CVVUCR	33	211121 P26	109	
064	SPIRE PMW_JFETV3_A . SHD03	SPH	I	S192	021BS-38	36		Cabel S192 Shd daisy ch to Pin 64 at CVV side (A2)	CVVUCR	33	211121 P26	064	

# Pin Allocation List (Harness)

**Connector:** 312100 J04  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 03)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
116	SPIRE PMW_JFETV4_A . A+	SPH.I	-	S193	021BS-38	37			CVVUCR	33	211121 P26	116	
117	SPIRE PMW_JFETV4_A . A-	SPH.I	-	S193	021BS-38	37			CVVUCR	33	211121 P26	117	
064	SPIRE PMW_JFETV4_A . SHD04	SPH.I	-	S193	021BS-38	37		Cabel S193 Shd daisy ch to Pin 64 at CVV side (A2)	CVVUCR	33	211121 P26	064	
076	SPIRE PMW_Bias1/2_A . A+	SPG.I	-	S194	021BS-38	32			CVVUCR	33	211121 P26	076	
077	SPIRE PMW_Bias1/2_A . A-	SPG.I	-	S194	021BS-38	32			CVVUCR	33	211121 P26	077	
064	SPIRE PMW_Bias1/2_A . SHD05	SPG.I	-	S194	021BS-38	32		Cabel S194 Shd daisy ch to Pin 64 at CVV side (A2)	CVVUCR	33	211121 P26	064	
088	SPIRE PMW_Bias3/4_A . A+	SPG.I	-	S195	021BS-38	33			CVVUCR	33	211121 P26	088	
089	SPIRE PMW_Bias3/4_A . A-	SPG.I	-	S195	021BS-38	33			CVVUCR	33	211121 P26	089	
064	SPIRE PMW_Bias3/4_A . SHD06	SPG.I	-	S195	021BS-38	33		Cabel S195 Shd daisy ch to Pin 64 at CVV side (A2)	CVVUCR	33	211121 P26	064	
114	SPIRE HTR GND B2	SPX.-	-	S436	010B0-30			Sum of Cable SHDs, not a Wire at J side PAGE 132 to be clarified !	CVVUCR	33	211121 P26	114	
103	SPIRE PMW_Heater_A1 . A1+	SPJ.-	-	S197	021SS-38	38			CVVUCR	33	211121 P26	103	
113	SPIRE PMW_Heater_A1 . A1-	SPJ.-	-	S197	021SS-38	38			CVVUCR	33	211121 P26	113	
114	SPIRE PMW_Heater_A1 . SHD07	SPJ.-	-	S197	021SS-38	38		Cable Shd routed to Pin 114 at CVV side (routed as Gnd Wire B2)	CVVUCR	33	211121 P26	114	
102	SPIRE PMW_Heater_A2 . A2+	SPJ.-	-	S198	021SS-38	39			CVVUCR	33	211121 P26	102	
101	SPIRE PMW_Heater_A2 . A2-	SPJ.-	-	S198	021SS-38	39			CVVUCR	33	211121 P26	101	
114	SPIRE PMW_Heater_A2 . SHD08	SPJ.-	-	S198	021SS-38	39		Cable Shd routed to Pin 114 at CVV side (routed as Gnd Wire B2)	CVVUCR	33	211121 P26	114	
092	SPIRE PLW_Heater_A . A+	SPF.-	-	S199	021SS-38	31			CVVUCR	33	211121 P26	092	
104	SPIRE PLW_Heater_A . A-	SPF.-	-	S199	021SS-38	31			CVVUCR	33	211121 P26	104	
114	SPIRE PLW_Heater_A . SHD09	SPF.-	-	S199	021SS-38	31		Cable Shd routed to Pin 093 at CVV side (routed as Gnd Wire D2)	CVVUCR	33	211121 P26	114	3.
99	SPIRE PLW_JFETV1_A . A+	SPE.I	-	S200	021BS-38	29			CVVUCR	33	211121 P26	99	

# Pin Allocation List (Harness)

**Connector:** 312100 J04  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 03)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
100	SPIRE PLW_JFETV1_A . A-	SPE.I	-	S200	021BS-38	29		Cabel S200 Shd daisy ch to Pin 128 at CVV side (C2)	CVVUCR	33	211121 P26	100	
128	SPIRE PLW_JFETV1_A . SHD10	SPE.I	-	S200	021BS-38	29			CVVUCR	33	211121 P26	128	
110	SPIRE PLW_JFETV2_A . A+	SPE.I	-	S201	021BS-38	30		Cabel S201Shd daisy ch to Pin 128 at CVV side (C2)	CVVUCR	33	211121 P26	110	
111	SPIRE PLW_JFETV2_A . A-	SPE.I	-	S201	021BS-38	30			CVVUCR	33	211121 P26	111	
128	SPIRE PLW_JFETV2_A . SHD11	SPE.I	-	S201	021BS-38	30			CVVUCR	33	211121 P26	128	
118	SPIRE PLW_Bias1_A . A+	SPD.I	-	S202	021BS-38	27		Cabel Shd daisy ch to Pin 128 at CVV side (C2)	CVVUCR	33	211121 P26	118	
119	SPIRE PLW_Bias1_A . A-	SPD.I	-	S202	021BS-38	27			CVVUCR	33	211121 P26	119	
128	SPIRE PLW_Bias1_A . SHD12	SPD.I	-	S202	021BS-38	27			CVVUCR	33	211121 P26	128	
112	SPIRE PLW_Bias2_A . A+	SPD.I	-	S203	021BS-38	28		Cabel Shd daisy ch to Pin 128 at CVV side (C2)	CVVUCR	33	211121 P26	112	
120	SPIRE PLW_Bias2_A . A-	SPD.I	-	S203	021BS-38	28			CVVUCR	33	211121 P26	120	
128	SPIRE PLW_Bias2_A . SHD13	SPD.I	-	S203	021BS-38	28			CVVUCR	33	211121 P26	128	
128	SPIRE PLW_GND C2	SPX.-	-	S437	010B0-30			GND Wire C2 con to Cable SHDs	CVVUCR	33	211121 P26	128	
-	Faraday Link							Cable from P27 Faraday Shd con to Busbar ECR0039tbc					
006	SPIRE PMW_GND A4	SPX.-	-	S438	010B0-30			GND Wire A4 con to P28 SHDs	CVVUCR	33	211121 P26	006	
007	SPIRE PMW_JFETV1_B . B+	SPH.I	-	S219	021BS-38	49		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	CVVUCR	33	211121 P26	007	
014	SPIRE PMW_JFETV1_B . B-	SPH.I	-	S219	021BS-38	49			CVVUCR	33	211121 P26	014	
006	SPIRE PMW_JFETV1_B . SHD01	SPH.I	-	S219	021BS-38	49			CVVUCR	33	211121 P26	006	
024	SPIRE PMW_JFETV2_B . B+	SPH.I	-	S220	021BS-38	50		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	CVVUCR	33	211121 P26	024	
035	SPIRE PMW_JFETV2_B . B-	SPH.I	-	S220	021BS-38	50			CVVUCR	33	211121 P26	035	
006	SPIRE PMW_JFETV2_B . SHD02	SPH.I	-	S220	021BS-38	50			CVVUCR	33	211121 P26	006	
023	SPIRE PMW_JFETV3_B . B+	SPH.I	-	S221	021BS-38	51		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	CVVUCR	33	211121 P26	023	
034	SPIRE PMW_JFETV3_B . B-	SPH.I	-	S221	021BS-38	51			CVVUCR	33	211121 P26	034	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 9)

**Connector:** 312100 J04  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 03)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
006	SPIRE PMW_JFETV3_B . SHD03	SPH.I -	S221	021BS-38	51		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	CVVUCR	33	211121 P26	006	
033	SPIRE PMW_JFETV4_B . B+	SPH.I -	S222	021BS-38	52			CVVUCR	33	211121 P26	033	
045	SPIRE PMW_JFETV4_B . B-	SPH.I -	S222	021BS-38	52			CVVUCR	33	211121 P26	045	
006	SPIRE PMW_JFETV4_B . SHD04	SPH.I -	S222	021BS-38	52		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	CVVUCR	33	211121 P26	006	
044	SPIRE PMW_Bias1/2_B . B+	SPG.I -	S223	021BS-38	47			CVVUCR	33	211121 P26	044	
056	SPIRE PMW_Bias1/2_B . B-	SPG.I -	S223	021BS-38	47			CVVUCR	33	211121 P26	056	
006	SPIRE PMW_Bias1/2_B . SHD05	SPG.I -	S223	021BS-38	47		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	CVVUCR	33	211121 P26	006	
022	SPIRE PMW_Bias3/4_B . B+	SPG.I -	S224	021BS-38	48			CVVUCR	33	211121 P26	022	
032	SPIRE PMW_Bias3/4_B . B-	SPG.I -	S224	021BS-38	48			CVVUCR	33	211121 P26	032	
006	SPIRE PMW_Bias3/4_B . SHD06	SPG.I -	S224	021BS-38	48		Cabel Shd daisy ch to Pin 06 at CVV side (A4)	CVVUCR	33	211121 P26	006	
055	SPIRE PMW_Heater_B1 . B1+	SPJ.-	S226	021SS-38	53			CVVUCR	33	211121 P26	055	
066	SPIRE PMW_Heater_B1 . B1-	SPJ.-	S226	021SS-38	53			CVVUCR	33	211121 P26	066	
065	SPIRE PMW_Heater_B1 . SHD07	SPJ.-	S226	021SS-38	53		Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	CVVUCR	33	211121 P26	065	
067	SPIRE PMW_Heater_B2 . B2+	SPJ.-	S227	021SS-38	54			CVVUCR	33	211121 P26	067	
078	SPIRE PMW_Heater_B2 . B2-	SPJ.-	S227	021SS-38	54			CVVUCR	33	211121 P26	078	
065	SPIRE PMW_Heater_B2 . SHD08	SPJ.-	S227	021SS-38	54		Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	CVVUCR	33	211121 P26	065	
090	SPIRE PLW_Heater_B . B+	SPF.-	S228	021SS-38	46			CVVUCR	33	211121 P26	090	
079	SPIRE PLW_Heater_B . B-	SPF.-	S228	021SS-38	46			CVVUCR	33	211121 P26	079	
065	SPIRE PLW_Heater_B . SHD09	SPF.-	S228	021SS-38	46		Cable Shd routed to Pin 65 at CVV side (routed as Gnd Wire D4)	CVVUCR	33	211121 P26	065	
091	SPIRE PLW_GND C4	SPX.-	S440	010B0-30			GND Wire C4 con to Cable SHDs	CVVUCR	33	211121 P26	091	

# Pin Allocation List (Harness)

**Connector:** 312100 J04  
**Item:** HSSVMCB1  
**EMC-Category:** 2/ISig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 03)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
070	SPIRE PLW_JFETV1_B . B+	SPE.I	-	S229	021BS-38	44			CVVUCR	33	211121 P26	070	
081	SPIRE PLW_JFETV1_B . B-	SPE.I	-	S229	021BS-38	44			CVVUCR	33	211121 P26	081	
091	SPIRE PLW_JFETV1_B . SHD10	SPE.I	-	S229	021BS-38	44		Cabel S229 Shd daisy ch to Pin 91 at CVV side (C4)	CVVUCR	33	211121 P26	091	
069	SPIRE PLW_JFETV2_B . B+	SPE.I	-	S230	021BS-38	45			CVVUCR	33	211121 P26	069	
080	SPIRE PLW_JFETV2_B . B-	SPE.I	-	S230	021BS-38	45			CVVUCR	33	211121 P26	080	
091	SPIRE PLW_JFETV2_B . SHD11	SPE.I	-	S230	021BS-38	45		Cabel S230 Shd daisy ch to Pin 91 at CVV side (C4)	CVVUCR	33	211121 P26	091	
068	SPIRE PLW_Bias1_B . B+	SPD.I	-	S231	021BS-38	42			CVVUCR	33	211121 P26	068	
057	SPIRE PLW_Bias1_B . B-	SPD.I	-	S231	021BS-38	42			CVVUCR	33	211121 P26	057	
091	SPIRE PLW_Bias1_B . SHD12	SPD.I	-	S231	021BS-38	42		Cabel S231 Shd daisy ch to Pin 91 at CVV side (C4)	CVVUCR	33	211121 P26	091	
058	SPIRE PLW_Bias2_B . B+	SPD.I	-	S232	021BS-38	43			CVVUCR	33	211121 P26	058	
046	SPIRE PLW_Bias2_B . B-	SPD.I	-	S232	021BS-38	43			CVVUCR	33	211121 P26	046	
091	SPIRE PLW_Bias2_B . SHD13	SPD.I	-	S232	021BS-38	43		Cabel S232Shd daisy ch to Pin 91 at CVV side (C4)	CVVUCR	33	211121 P26	091	
-	Faraday Link							Cable from P28 Faraday Shd con to Busbar ECR0039tbc					
002	Faraday Shd Pins							Connected to Busbar ECR 0039 tbc					
003	Faraday Shd Pins							Connected to Busbar ECR 0039 tbc					
004	Faraday Shd Pins							Connected to Busbar ECR 0039 tbc					
005	Faraday Shd Pins							Connected to Busbar ECR 0039 tbc					
007	Faraday Shd Pins							Connected to Busbar ECR 0039 tbc					
008	Faraday Shd Pins							Connected to Busbar ECR 0039 tbc					
015	Faraday Shd Pins							Connected to Busbar ECR 0039 tbc					
025	Faraday Shd Pins							Connected to Busbar ECR 0039 tbc					

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 312100 J04

Item: HSSVMCB1

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB1 (SPIRE Bundle 03)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal	Pos.	Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
047	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
065	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
082	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
093	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
094	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
105	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
114	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
115	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
121	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
122	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
123	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
124	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
125	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
126	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
127	Faraday Shd Pins	-	-	-	-	-	-	-	Connected to Busbar ECR 0039 tbc					
-	Connector Housing								CH isolated from Faraday Shd					
-	Insulating Jacket								Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd								Bundle Overall Shd con to Backshell					







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Project: **HERSCHEL**

For Wiring Schematic  
See SH-1S-04 CVVUCR P22

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 8)

Connector: 312100 J03

Item: HSSVMCB1

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB1 (SPIRE Bundle 04)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
036	SPIRE PMW B04 GND WIRE A1	SPX.-	-	S441	010B0-30				Con to Cable from P24 GND/Shds	CVVUCR	33	211121 P22	036	
026	SPIRE PMW Ch01 to 04 . 1+	SPB.I	-	S067	021SS-38	1			PMW-F10	CVVUCR	33	211121 P22	026	
037	SPIRE PMW Ch01 to 04 . 1-	SPB.I	-	S067	021SS-38	1			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	037	
036	SPIRE PMW Ch01 to 04 . 1gnd	SPB.I	-	S067	021SS-38	1				CVVUCR	33	211121 P22	036	
038	SPIRE PMW Ch01 to 04 . 2+	SPB.I	-	S067	021SS-38	1			PMW-E11	CVVUCR	33	211121 P22	038	
049	SPIRE PMW Ch01 to 04 . 2-	SPB.I	-	S067	021SS-38	1			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	049	
036	SPIRE PMW Ch01 to 04 . 2gnd	SPB.I	-	S067	021SS-38	1				CVVUCR	33	211121 P22	036	
048	SPIRE PMW Ch01 to 04 . 3+	SPB.I	-	S067	021SS-38	1			PMW-G11	CVVUCR	33	211121 P22	048	
060	SPIRE PMW Ch01 to 04 . 3-	SPB.I	-	S067	021SS-38	1			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	060	
036	SPIRE PMW Ch01 to 04 . 3gnd	SPB.I	-	S067	021SS-38	1				CVVUCR	33	211121 P22	036	
059	SPIRE PMW Ch01 to 04 . 4+	SPB.I	-	S067	021SS-38	1			PMW-F11	CVVUCR	33	211121 P22	059	
071	SPIRE PMW Ch01 to 04 . 4-	SPB.I	-	S067	021SS-38	1			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	071	
036	SPIRE PMW Ch01 to 04 . 4gnd	SPB.I	-	S067	021SS-38	1				CVVUCR	33	211121 P22	036	
036	SPIRE PMW Ch01 to 04 . SHD01	SPB.I	-	S067	021SS-38	1			Cable S067 Shd Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22		
050	SPIRE PMW Ch05 to 08 . 5+	SPB.I	-	S068	021SS-38	2			PMW-E12	CVVUCR	33	211121 P22	050	
061	SPIRE PMW Ch05 to 08 . 5-	SPB.I	-	S068	021SS-38	2			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	061	
036	SPIRE PMW Ch05 to 08 . 5gnd	SPB.I	-	S068	021SS-38	2				CVVUCR	33	211121 P22	036	
062	SPIRE PMW Ch05 to 08 . 6+	SPB.I	-	S068	021SS-38	2			PMW-G12	CVVUCR	33	211121 P22	062	
051	SPIRE PMW Ch05 to 08 . 6-	SPB.I	-	S068	021SS-38	2			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	051	
036	SPIRE PMW Ch05 to 08 . 6gnd	SPB.I	-	S068	021SS-38	2				CVVUCR	33	211121 P22	036	
063	SPIRE PMW Ch05 to 08 . 7+	SPB.I	-	S068	021SS-38	2			PMW-F12	CVVUCR	33	211121 P22	063	
075	SPIRE PMW Ch05 to 08 . 7-	SPB.I	-	S068	021SS-38	2			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	075	
036	SPIRE PMW Ch05 to 08 . 7gnd	SPB.I	-	S068	021SS-38	2				CVVUCR	33	211121 P22	036	
074	SPIRE PMW Ch05 to 08 . 8+	SPB.I	-	S068	021SS-38	2			PMW-G13	CVVUCR	33	211121 P22	074	
073	SPIRE PMW Ch05 to 08 . 8-	SPB.I	-	S068	021SS-38	2			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	073	
036	SPIRE PMW Ch05 to 08 . 8gnd	SPB.I	-	S068	021SS-38	2				CVVUCR	33	211121 P22	036	
036	SPIRE PMW Ch05 to 08 . SHD02	SPB.I	-	S068	021SS-38	2			Cable S068 Shd Daisy cch to Pin 36 (A1)	CVVUCR	33	211121 P22		

# Pin Allocation List

(Harness)

**Connector:** 312100 J03  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 04)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
083	SPIRE PMW Ch09 to 12 . 9+	SPB.I	-	S069	021SS-38	3		PMW-DK2	CVVUCR	33	211121 P22	083	
072	SPIRE PMW Ch09 to 12 . 9-	SPB.I	-	S069	021SS-38	3			CVVUCR	33	211121 P22	072	
036	SPIRE PMW Ch09 to 12 . 9gnd	SPB.I	-	S069	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	036	
095	SPIRE PMW Ch09 to 12 . 10+	SPB.I	-	S069	021SS-38	3		SPARE Channel	CVVUCR	33	211121 P22	095	
084	SPIRE PMW Ch09 to 12 . 10-	SPB.I	-	S069	021SS-38	3		SPARE Channel	CVVUCR	33	211121 P22	084	
036	SPIRE PMW Ch09 to 12 . 10gnd	SPB.I	-	S069	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	036	
096	SPIRE PMW Ch09 to 12 . 11+	SPB.I	-	S069	021SS-38	3		SPARE Channel	CVVUCR	33	211121 P22	096	
085	SPIRE PMW Ch09 to 12 . 11-	SPB.I	-	S069	021SS-38	3		SPARE Channel	CVVUCR	33	211121 P22	085	
036	SPIRE PMW Ch09 to 12 . 11gnd	SPB.I	-	S069	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	036	
106	SPIRE PMW Ch09 to 12 . 12+	SPB.I	-	S069	021SS-38	3		SPARE Channel	CVVUCR	33	211121 P22	106	
107	SPIRE PMW Ch09 to 12 . 12-	SPB.I	-	S069	021SS-38	3		SPARE Channel	CVVUCR	33	211121 P22	107	
036	SPIRE PMW Ch09 to 12 . 12gnd	SPB.I	-	S069	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P22	036	
-	Faraday link							Cable from P24 Faraday Shd con to Busbar tbc					
128	SPIRE PMW B04 GND Wire A2	SPX.-	-	S442	010B0-30			Con to Cable from P23 GND/Shds	CVVUCR	33	211121 P22	128	
086	SPIRE PMW Ch 13 to 16 . 13+	SPB.I	-	S072	021SS-38	4		PMW-E7	CVVUCR	33	211121 P22	086	
087	SPIRE PMW Ch 13 to 16 . 13-	SPB.I	-	S072	021SS-38	4			CVVUCR	33	211121 P22	087	
036	SPIRE PMW Ch 13 to 16 . 13gnd	SPB.I	-	S072	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P22	036	3.
097	SPIRE PMW Ch 13 to 16 . 14+	SPB.I	-	S072	021SS-38	4		PMW-D7	CVVUCR	33	211121 P22	097	
098	SPIRE PMW Ch 13 to 16 . 14-	SPB.I	-	S072	021SS-38	4			CVVUCR	33	211121 P22	098	
036	SPIRE PMW Ch 13 to 16 . 14gnd	SPB.I	-	S072	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P22	036	3.
108	SPIRE PMW Ch 13 to 16 . 15+	SPB.I	-	S072	021SS-38	4		PMW-F7	CVVUCR	33	211121 P22	108	
109	SPIRE PMW Ch 13 to 16 . 15-	SPB.I	-	S072	021SS-38	4			CVVUCR	33	211121 P22	109	
036	SPIRE PMW Ch 13 to 16 . 15gnd	SPB.I	-	S072	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P22	036	3.
116	SPIRE PMW Ch 13 to 16 . 16+	SPB.I	-	S072	021SS-38	4		PMW-E8	CVVUCR	33	211121 P22	116	
117	SPIRE PMW Ch 13 to 16 . 16-	SPB.I	-	S072	021SS-38	4			CVVUCR	33	211121 P22	117	

# Pin Allocation List

(Harness)

**Connector:** 312100 J03  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 04)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
036	SPIRE PMW Ch 13 to 16, 16grnd	SPB.I	-	S072	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	036	3.
055	SPIRE PMW Ch17 to 19, 17+	SPB.I	-	S073	021SS-38	5		PMW-G8	CVUUCR	33	211121 P22	055	
066	SPIRE PMW Ch17 to 19, 17-	SPB.I	-	S073	021SS-38	5			CVUUCR	33	211121 P22	066	
128	SPIRE PMW Ch17 to 19, 17grnd	SPB.I	-	S073	021SS-38	5		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
067	SPIRE PMW Ch17 to 19, 18+	SPB.I	-	S073	021SS-38	5		PMW-F8	CVUUCR	33	211121 P22	067	
078	SPIRE PMW Ch17 to 19, 18-	SPB.I	-	S073	021SS-38	5			CVUUCR	33	211121 P22	078	
128	SPIRE PMW Ch17 to 19, 18grnd	SPB.I	-	S073	021SS-38	5		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
076	SPIRE PMW Ch17 to 19, 19+	SPB.I	-	S073	021SS-38	5		PMW-E9	CVUUCR	33	211121 P22	076	
077	SPIRE PMW Ch17 to 19, 19-	SPB.I	-	S073	021SS-38	5			CVUUCR	33	211121 P22	077	
128	SPIRE PMW Ch17 to 19, 19grnd	SPB.I	-	S073	021SS-38	5		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
088	SPIRE PMW Ch 20, 20+	SPB.-	-	S73A	12AXD-38	5		PMW-G9	CVUUCR	33	211121 P22	088	
089	SPIRE PMW Ch 20, 20-	SPB.-	-	S73A	12AXD-38	5			CVUUCR	33	211121 P22	089	
128	SPIRE PMW Ch 20, 20grnd	SPB.-	-	S73A	12AXD-38	5		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
128	SPIRE PMW Ch17 to 19, SHD02	SPB.I	-	S073	021SS-38	5		Cable S073 Shd daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
099	SPIRE PMW Ch21 to 24, 21+	SPB.I	-	S074	021SS-38	6		PMW-D9	CVUUCR	33	211121 P22	099	
100	SPIRE PMW Ch21 to 24, 21-	SPB.I	-	S074	021SS-38	6			CVUUCR	33	211121 P22	100	
128	SPIRE PMW Ch21 to 24, 21grnd	SPB.I	-	S074	021SS-38	6		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
110	SPIRE PMW Ch21 to 24, 22+	SPB.I	-	S074	021SS-38	6		PMW-F9	CVUUCR	33	211121 P22	110	
111	SPIRE PMW Ch21 to 24, 22-	SPB.I	-	S074	021SS-38	6			CVUUCR	33	211121 P22	111	
128	SPIRE PMW Ch21 to 24, 22grnd	SPB.I	-	S074	021SS-38	6		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
118	SPIRE PMW Ch21 to 24, 23+	SPB.I	-	S074	021SS-38	6		PMW-E10	CVUUCR	33	211121 P22	118	
119	SPIRE PMW Ch21 to 24, 23-	SPB.I	-	S074	021SS-38	6			CVUUCR	33	211121 P22	119	
128	SPIRE PMW Ch21 to 24, 23grnd	SPB.I	-	S074	021SS-38	6		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
112	SPIRE PMW Ch21 to 24, 24+	SPB.I	-	S074	021SS-38	6		PMW-G10	CVUUCR	33	211121 P22	112	
120	SPIRE PMW Ch21 to 24, 24-	SPB.I	-	S074	021SS-38	6			CVUUCR	33	211121 P22	120	
128	SPIRE PMW Ch21 to 24, 24grnd	SPB.I	-	S074	021SS-38	6		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	
128	SPIRE PMW Ch21 to 24, SHD03	SPB.I	-	S074	021SS-38	6		Cable S074 Shd daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P22	128	

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 312100 J03  
**Item:** HSSVMCB1  
**EMC-Category:** 2/ISig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 04)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
-	Faraday link												
047	SPIRE PMW B04 GND Wire A3	SPX.-	-	S443	010B0-30			Con to Cable from P22 GND /Shds	CVVUCR	33	211121 P22	047	
090	SPIRE PMW Ch25 to 28 . 25+	SPB.I	-	S076	021SS-38	8		PMW-C4	CVVUCR	33	211121 P22	090	
079	SPIRE PMW Ch25 to 28 . 25-	SPB.I	-	S076	021SS-38	8			CVVUCR	33	211121 P22	079	
128	SPIRE PMW Ch25 to 28 . 25gnd	SPB.I	-	S076	021SS-38	8		Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	128	3.
102	SPIRE PMW Ch25 to 28 . 26+	SPB.I	-	S076	021SS-38	8		PMW-B3	CVVUCR	33	211121 P22	102	
101	SPIRE PMW Ch25 to 28 . 26-	SPB.I	-	S076	021SS-38	8			CVVUCR	33	211121 P22	101	
128	SPIRE PMW Ch25 to 28 . 26gnd	SPB.I	-	S076	021SS-38	8		Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	128	3.
092	SPIRE PMW Ch25 to 28 . 27+	SPB.I	-	S076	021SS-38	8		PMW-C3	CVVUCR	33	211121 P22	092	
091	SPIRE PMW Ch25 to 28 . 27-	SPB.I	-	S076	021SS-38	8			CVVUCR	33	211121 P22	091	
128	SPIRE PMW Ch25 to 28 . 27gnd	SPB.I	-	S076	021SS-38	8		Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	128	3.
103	SPIRE PMW Ch25 to 28 . 28+	SPB.I	-	S076	021SS-38	8		PMW-B2	CVVUCR	33	211121 P22	103	
113	SPIRE PMW Ch25 to 28 . 28-	SPB.I	-	S076	021SS-38	8			CVVUCR	33	211121 P22	113	
128	SPIRE PMW Ch25 to 28 . 28gnd	SPB.I	-	S076	021SS-38	8		Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	128	3.
058	SPIRE PMW Ch29 to 32 . 29+	SPB.I	-	S077	021SS-38	9		PMW-D2	CVVUCR	33	211121 P22	058	
046	SPIRE PMW Ch29 to 32 . 29-	SPB.I	-	S077	021SS-38	9			CVVUCR	33	211121 P22	046	
128	SPIRE PMW Ch29 to 32 . 29gnd	SPB.I	-	S077	021SS-38	9		Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	128	3.
068	SPIRE PMW Ch29 to 32 . 30+	SPB.I	-	S077	021SS-38	9		PMW-A3	CVVUCR	33	211121 P22	068	
057	SPIRE PMW Ch29 to 32 . 30-	SPB.I	-	S077	021SS-38	9			CVVUCR	33	211121 P22	057	
128	SPIRE PMW Ch29 to 32 . 30gnd	SPB.I	-	S077	021SS-38	9		Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	128	3.
069	SPIRE PMW Ch29 to 32 . 31+	SPB.I	-	S077	021SS-38	9		PMW-A2	CVVUCR	33	211121 P22	069	
080	SPIRE PMW Ch29 to 32 . 31-	SPB.I	-	S077	021SS-38	9			CVVUCR	33	211121 P22	080	
128	SPIRE PMW Ch29 to 32 . 31gnd	SPB.I	-	S077	021SS-38	9		Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	128	3.
070	SPIRE PMW Ch29 to 32 . 32+	SPB.I	-	S077	021SS-38	9		PMW-C2	CVVUCR	33	211121 P22	070	
081	SPIRE PMW Ch29 to 32 . 32-	SPB.I	-	S077	021SS-38	9			CVVUCR	33	211121 P22	081	

# Pin Allocation List (Harness)

**Connector:** 312100 J03  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 04)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
128	SPIRE PMW Ch29 to 32 . 32gnd	SPB.I	-	S077	021SS-38	9			Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	128	3.
023	SPIRE PMW Ch33 to 35 . 33+	SPB.I	-	S078	021SS-38	10			PMW-B1	CVVUCR	33	211121 P22	023	
034	SPIRE PMW Ch33 to 35 . 33-	SPB.I	-	S078	021SS-38	10				CVVUCR	33	211121 P22	034	
004	SPIRE PMW Ch33 to 35 . 33gnd	SPB.I	-	S078	021SS-38	10			Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	004	3.
033	SPIRE PMW Ch33 to 35 . 34+	SPB.I	-	S078	021SS-38	10			PMW-A1	CVVUCR	33	211121 P22	033	
045	SPIRE PMW Ch33 to 35 . 34-	SPB.I	-	S078	021SS-38	10				CVVUCR	33	211121 P22	045	
004	SPIRE PMW Ch33 to 35 . 34gnd	SPB.I	-	S078	021SS-38	10			Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	004	3.
044	SPIRE PMW Ch33 to 35 . 35+	SPB.I	-	S078	021SS-38	10			PMW-DK1	CVVUCR	33	211121 P22	044	
056	SPIRE PMW Ch33 to 35 . 35-	SPB.I	-	S078	021SS-38	10				CVVUCR	33	211121 P22	056	
004	SPIRE PMW Ch33 to 35 . 35gnd	SPB.I	-	S078	021SS-38	10			Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	004	3.
022	SPIRE PMW Ch36 . 36+	SPB.-	-	S78A	12AXD-38	10			PMW-C1	CVVUCR	33	211121 P22	022	
032	SPIRE PMW Ch36 . 36-	SPB.-	-	S78A	12AXD-38	10				CVVUCR	33	211121 P22	032	
004	SPIRE PMW Ch36 . 36gnd	SPB.-	-	S78A	12AXD-38	10			Daisy ch to Pin 47 (A3)	CVVUCR	33	211121 P22	004	3.
-	Faraday Link								Cable from P22 Faraday Shd con to Busbar tbc					
004	SPIRE PMW B04 GND Wire A4	SPX.-	-	S444	010B0-30				Con to Cable from P21 GND/Shds	CVVUCR	33	211121 P22	004	
013	SPIRE PMW Ch37 to 40 . 37+	SPB.-	-	S083	12AXD-38	12			PMW-A7	CVVUCR	33	211121 P22	013	
012	SPIRE PMW Ch37 to 40 . 37-	SPB.-	-	S083	12AXD-38	12				CVVUCR	33	211121 P22	012	
004	SPIRE PMW Ch37 to 40 . 37gnd	SPB.-	-	S083	12AXD-38	12			Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P22	004	
021	SPIRE PMW Ch37 to 40 . 38+	SPB.-	-	S083	12AXD-38	12			PMW-A6	CVVUCR	33	211121 P22	021	
020	SPIRE PMW Ch37 to 40 . 38-	SPB.-	-	S083	12AXD-38	12				CVVUCR	33	211121 P22	020	
004	SPIRE PMW Ch37 to 40 . 38gnd	SPB.-	-	S083	12AXD-38	12			Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P22	004	
031	SPIRE PMW Ch37 to 40 . 39+	SPB.-	-	S083	12AXD-38	12			PMW-B6	CVVUCR	33	211121 P22	031	
043	SPIRE PMW Ch37 to 40 . 39-	SPB.-	-	S083	12AXD-38	12				CVVUCR	33	211121 P22	043	
004	SPIRE PMW Ch37 to 40 . 39gnd	SPB.-	-	S083	12AXD-38	12			Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P22	004	
042	SPIRE PMW Ch37 to 40 . 40+	SPB.-	-	S083	12AXD-38	12			PMW-C7	CVVUCR	33	211121 P22	042	

# Pin Allocation List (Harness)

**Connector:** 312100 J03  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 04)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
054	SPIRE PMW Ch37 to 40 . 40-	SPB.-	-	S083	12AXD-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	054	
004	SPIRE PMW Ch37 to 40 . 40gnd	SPB.-	-	S083	12AXD-38	12			CVUUCR	33	211121 P22	004	
010	SPIRE PMW Ch41 to 44 . 41+	SPB.I	-	S081	021SS-38	13		PMW-A5	33	211121 P22	010		
011	SPIRE PMW Ch41 to 44 . 41-	SPB.I	-	S081	021SS-38	13		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	011	
004	SPIRE PMW Ch41 to 44 . 41gnd	SPB.I	-	S081	021SS-38	13			CVUUCR	33	211121 P22	004	
019	SPIRE PMW Ch41 to 44 . 42+	SPB.I	-	S081	021SS-38	13		PMW-B5	33	211121 P22	019		
029	SPIRE PMW Ch41 to 44 . 42-	SPB.I	-	S081	021SS-38	13		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	029	
004	SPIRE PMW Ch41 to 44 . 42gnd	SPB.I	-	S081	021SS-38	13			CVUUCR	33	211121 P22	004	
041	SPIRE PMW Ch41 to 44 . 43+	SPB.I	-	S081	021SS-38	13		PMW-C6	33	211121 P22	041		
030	SPIRE PMW Ch41 to 44 . 43-	SPB.I	-	S081	021SS-38	13		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	030	
004	SPIRE PMW Ch41 to 44 . 43gnd	SPB.I	-	S081	021SS-38	13			CVUUCR	33	211121 P22	004	
053	SPIRE PMW Ch41 to 44 . 44+	SPB.I	-	S081	021SS-38	13		PMW-D6	33	211121 P22	053		
052	SPIRE PMW Ch41 to 44 . 44-	SPB.I	-	S081	021SS-38	13		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	052	
004	SPIRE PMW Ch41 to 44 . 44gnd	SPB.I	-	S081	021SS-38	13			CVUUCR	33	211121 P22	004	
009	SPIRE PMW Ch45 to 48 . 45+	SPB.I	-	S082	021SS-38	14		PMW-B4	33	211121 P22	009		
017	SPIRE PMW Ch45 to 48 . 45-	SPB.I	-	S082	021SS-38	14		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	017	
004	SPIRE PMW Ch45 to 48 . 45gnd	SPB.I	-	S082	021SS-38	14			CVUUCR	33	211121 P22	004	
018	SPIRE PMW Ch45 to 48 . 46+	SPB.I	-	S082	021SS-38	14		PMW-C5	33	211121 P22	018		
028	SPIRE PMW Ch45 to 48 . 46-	SPB.I	-	S082	021SS-38	14		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	028	
004	SPIRE PMW Ch45 to 48 . 46gnd	SPB.I	-	S082	021SS-38	14			CVUUCR	33	211121 P22	004	
016	SPIRE PMW Ch45 to 48 . 47+	SPB.I	-	S082	021SS-38	14		PMW-D4	33	211121 P22	016		
027	SPIRE PMW Ch45 to 48 . 47-	SPB.I	-	S082	021SS-38	14		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	027	
004	SPIRE PMW Ch45 to 48 . 47gnd	SPB.I	-	S082	021SS-38	14			CVUUCR	33	211121 P22	004	
040	SPIRE PMW Ch45 to 48 . 48+	SPB.I	-	S082	021SS-38	14		PMW-A4	33	211121 P22	040		
039	SPIRE PMW Ch45 to 48 . 48-	SPB.I	-	S082	021SS-38	14		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P22	039	
004	SPIRE PMW Ch45 to 48 . 48gnd	SPB.I	-	S082	021SS-38	14			CVUUCR	33	211121 P22	004	
-	Faraday Link	-	-	-	-	-	-	Cable from P21 Faraday Shd con to Busbar tbc	-	-	-	-	-



# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 312100 J03  
Item: HSSVMCB1

EMC-Category: 2//Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB1 (SPIRE Bundle 04)  
Location: 27 //F CB ab. SVM Panel 7 (SP/CCU CB)

Conn.-Type: SCC340104401B032435P  
Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
001	Faraday Pins							Connected to Busbar ECR 0039 tbc					
002	Faraday Pins							Connected to Busbar ECR 0039 tbc					
003	Faraday Pins							Connected to Busbar ECR 0039 tbc					
005	Faraday Pins							Connected to Busbar ECR 0039 tbc					
006	Faraday Pins							Connected to Busbar ECR 0039 tbc					
007	Faraday Pins							Connected to Busbar ECR 0039 tbc					
008	Faraday Pins							Connected to Busbar ECR 0039 tbc					
014	Faraday Pins							Connected to Busbar ECR 0039 tbc					
015	Faraday Pins							Connected to Busbar ECR 0039 tbc					
024	Faraday Pins							Connected to Busbar ECR 0039 tbc					
025	Faraday Pins							Connected to Busbar ECR 0039 tbc					
035	Faraday Pins							Connected to Busbar ECR 0039 tbc					
082	Faraday Pins							Connected to Busbar ECR 0039 tbc					
093	Faraday Pins							Connected to Busbar ECR 0039 tbc					
094	Faraday Pins							Connected to Busbar ECR 0039 tbc					
104	Faraday Pins							Connected to Busbar ECR 0039 tbc					
105	Faraday Pins							Connected to Busbar ECR 0039 tbc					
114	Faraday Pins							Connected to Busbar ECR 0039 tbc					
115	Faraday Pins							Connected to Busbar ECR 0039 tbc					

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

**Connector:** 312100 J03  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 04)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
121	Faraday Pins							Conected to Busbar ECR 0039 tbc					
122	Faraday Pins							Conected to Busbar ECR 0039 tbc					
123	Faraday Pins							Conected to Busbar ECR 0039 tbc					
124	Faraday Pins							Conected to Busbar ECR 0039 tbc					
125	Faraday Pins							Conected to Busbar ECR 0039 tbc					
126	Faraday Pins							Conected to Busbar ECR 0039 tbc					
127	Faraday Pins							Conected to Busbar ECR 0039 tbc					
-	Connector Housing							CH isolated from Faraday Shd					
-	Insulating Jacket							Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd							Bundle Overall Shd con to Backshell					



# Pin Allocation List (Harness)

**Connector:** 312100 J02  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 05)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PMW B05 GND WIRE A1	SPX.- -	S451	010B0-30			Con to Cable from P17 GND/Shds	CVVUCR	33	211121 P23	036	
026	SPIRE PMW Ch01-04 . 1+	SPB.I -	S085	021SS-38	1		PMW-A13	CVVUCR	33	211121 P23	026	
037	SPIRE PMW Ch01-04 . 1-	SPB.I -	S085	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	037	
036	SPIRE PMW Ch01-04 . 1gnd	SPB.I -	S085	021SS-38	1			CVVUCR	33	211121 P23	036	
038	SPIRE PMW Ch01-04 . 2+	SPB.I -	S085	021SS-38	1		PMW-T1	CVVUCR	33	211121 P23	038	
049	SPIRE PMW Ch01-04 . 2-	SPB.I -	S085	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	049	
036	SPIRE PMW Ch01-04 . 2gnd	SPB.I -	S085	021SS-38	1			CVVUCR	33	211121 P23	036	
048	SPIRE PMW Ch01-04 . 3+	SPB.I -	S085	021SS-38	1		PMW-B12	CVVUCR	33	211121 P23	048	
060	SPIRE PMW Ch01-04 . 3-	SPB.I -	S085	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	060	
036	SPIRE PMW Ch01-04 . 3gnd	SPB.I -	S085	021SS-38	1			CVVUCR	33	211121 P23	036	
059	SPIRE PMW Ch01-04 . 4+	SPB.I -	S085	021SS-38	1		PMW-C13	CVVUCR	33	211121 P23	059	
071	SPIRE PMW Ch01-04 . 4-	SPB.I -	S085	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	071	
036	SPIRE PMW Ch01-04 . 4gnd	SPB.I -	S085	021SS-38	1			CVVUCR	33	211121 P23	036	
050	SPIRE PMW Ch05-08 . 5+	SPB.I -	S086	021SS-38	2		PMW-A12	CVVUCR	33	211121 P23	050	
061	SPIRE PMW Ch05-08 . 5-	SPB.I -	S086	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	061	
036	SPIRE PMW Ch05-08 . 5gnd	SPB.I -	S086	021SS-38	2			CVVUCR	33	211121 P23	036	
062	SPIRE PMW Ch05-08 . 6+	SPB.I -	S086	021SS-38	2		PMW-D12	CVVUCR	33	211121 P23	062	
051	SPIRE PMW Ch05-08 . 6-	SPB.I -	S086	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	051	
036	SPIRE PMW Ch05-08 . 6gnd	SPB.I -	S086	021SS-38	2			CVVUCR	33	211121 P23	036	
063	SPIRE PMW Ch05-08 . 7+	SPB.I -	S086	021SS-38	2		PMW-C12	CVVUCR	33	211121 P23	063	
075	SPIRE PMW Ch05-08 . 7-	SPB.I -	S086	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	075	
036	SPIRE PMW Ch05-08 . 7gnd	SPB.I -	S086	021SS-38	2			CVVUCR	33	211121 P23	036	
074	SPIRE PMW Ch05-08 . 8+	SPB.I -	S086	021SS-38	2		PMW-B11	CVVUCR	33	211121 P23	074	
073	SPIRE PMW Ch05-08 . 8-	SPB.I -	S086	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	073	
036	SPIRE PMW Ch05-08 . 8gnd	SPB.I -	S086	021SS-38	2			CVVUCR	33	211121 P23	036	
083	SPIRE PMW Ch09-12 . 9+	SPB.I -	S087	021SS-38	3		PMW-A11	CVVUCR	33	211121 P23	083	
072	SPIRE PMW Ch09-12 . 9-	SPB.I -	S087	021SS-38	3			CVVUCR	33	211121 P23	072	

**Pin Allocation List**  
(Harness)

**Connector:** 312100 J02  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 05)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PMW Ch09-12 . 9gnd	SPB.I	-	S087	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	036	
095	SPIRE PMW Ch09-12 . 10+	SPB.I	-	S087	021SS-38	3		PMW-A13	CVVUCR	33	211121 P23	095	
084	SPIRE PMW Ch09-12 . 10-	SPB.I	-	S087	021SS-38	3			CVVUCR	33	211121 P23	084	
036	SPIRE PMW Ch09-12 . 10gnd	SPB.I	-	S087	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	036	
096	SPIRE PMW Ch09-12 . 11+	SPB.I	-	S087	021SS-38	3		PMW-D11	CVVUCR	33	211121 P23	096	
085	SPIRE PMW Ch09-12 . 11-	SPB.I	-	S087	021SS-38	3			CVVUCR	33	211121 P23	085	
036	SPIRE PMW Ch09-12 . 11gnd	SPB.I	-	S087	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	036	
106	SPIRE PMW Ch09-12 . 12+	SPB.I	-	S087	021SS-38	3		PMW-C11	CVVUCR	33	211121 P23	106	
107	SPIRE PMW Ch09-12 . 12-	SPB.I	-	S087	021SS-38	3			CVVUCR	33	211121 P23	107	
036	SPIRE PMW Ch09-12 . 12gnd	SPB.I	-	S087	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P23	036	
-	Farady link							Cable P17 Faraday con to Busbar					
128	SPIRE PMW B05 GND WIRE A2	SPX.-	-	S452	010B0-30			Con to Cable from P18 GND/Shds	CVVUCR	33	211121 P23	128	
086	SPIRE PMW Ch13-16 . 13+	SPB.I	-	S090	021SS-38	4		PMW-B10	CVVUCR	33	211121 P23	086	
087	SPIRE PMW Ch13-16 . 13-	SPB.I	-	S090	021SS-38	4			CVVUCR	33	211121 P23	087	
036	SPIRE PMW Ch13-16 . 13gnd	SPB.I	-	S090	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	036	3.
097	SPIRE PMW Ch13-16 . 14+	SPB.I	-	S090	021SS-38	4		PMW-A10	CVVUCR	33	211121 P23	097	
098	SPIRE PMW Ch13-16 . 14-	SPB.I	-	S090	021SS-38	4			CVVUCR	33	211121 P23	098	
036	SPIRE PMW Ch13-16 . 14gnd	SPB.I	-	S090	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	036	3.
108	SPIRE PMW Ch13-16 . 15+	SPB.I	-	S090	021SS-38	4		PMW-D10	CVVUCR	33	211121 P23	108	
109	SPIRE PMW Ch13-16 . 15-	SPB.I	-	S090	021SS-38	4			CVVUCR	33	211121 P23	109	
036	SPIRE PMW Ch13-16 . 15gnd	SPB.I	-	S090	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	036	3.
116	SPIRE PMW Ch13-16 . 16+	SPB.I	-	S090	021SS-38	4		PMW-B9	CVVUCR	33	211121 P23	116	
117	SPIRE PMW Ch13-16 . 16-	SPB.I	-	S090	021SS-38	4			CVVUCR	33	211121 P23	117	
036	SPIRE PMW Ch13-16 . 16gnd	SPB.I	-	S090	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	036	3.
055	SPIRE PMW Ch17-20 . 17+	SPB.I	-	S091	021SS-38	5		PMW-C10	CVVUCR	33	211121 P23	055	

# Pin Allocation List

(Harness)

**Connector:** 312100 J02  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 05)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
066	SPIRE PMW Ch17-20 . 17-	SPB.I	-	S091	021SS-38	5			CVVUCR	33	211121 P23	066	
128	SPIRE PMW Ch17-20 . 17gnd	SPB.I	-	S091	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	128	
067	SPIRE PMW Ch17-20 . 18+	SPB.I	-	S091	021SS-38	5		PMW-C9	CVVUCR	33	211121 P23	067	
078	SPIRE PMW Ch17-20 . 18-	SPB.I	-	S091	021SS-38	5			CVVUCR	33	211121 P23	078	
128	SPIRE PMW Ch17-20 . 18gnd	SPB.I	-	S091	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	128	
076	SPIRE PMW Ch17-20 . 19+	SPB.I	-	S091	021SS-38	5		PMW-A9	CVVUCR	33	211121 P23	076	
077	SPIRE PMW Ch17-20 . 19-	SPB.I	-	S091	021SS-38	5			CVVUCR	33	211121 P23	077	
128	SPIRE PMW Ch17-20 . 19gnd	SPB.I	-	S091	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	128	
088	SPIRE PMW Ch17-20 . 20+	SPB.I	-	S091	021SS-38	5		PMW-B8	CVVUCR	33	211121 P23	088	
089	SPIRE PMW Ch17-20 . 20-	SPB.I	-	S091	021SS-38	5			CVVUCR	33	211121 P23	089	
128	SPIRE PMW Ch17-20 . 20gnd	SPB.I	-	S091	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	128	
099	SPIRE PMW Ch21-24 . 21+	SPB.I	-	S092	021SS-38	6		PMW-B8	CVVUCR	33	211121 P23	099	
100	SPIRE PMW Ch21-24 . 21-	SPB.I	-	S092	021SS-38	6			CVVUCR	33	211121 P23	100	
128	SPIRE PMW Ch21-24 . 21gnd	SPB.I	-	S092	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	128	
110	SPIRE PMW Ch21-24 . 22+	SPB.I	-	S092	021SS-38	6		PMW-D8	CVVUCR	33	211121 P23	110	
111	SPIRE PMW Ch21-24 . 22-	SPB.I	-	S092	021SS-38	6			CVVUCR	33	211121 P23	111	
128	SPIRE PMW Ch21-24 . 22gnd	SPB.I	-	S092	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	128	
118	SPIRE PMW Ch21-24 . 23+	SPB.I	-	S092	021SS-38	6		PMW-C8	CVVUCR	33	211121 P23	118	
119	SPIRE PMW Ch21-24 . 23-	SPB.I	-	S092	021SS-38	6			CVVUCR	33	211121 P23	119	
128	SPIRE PMW Ch21-24 . 23gnd	SPB.I	-	S092	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	128	
112	SPIRE PMW Ch21-24 . 24+	SPB.I	-	S092	021SS-38	6		PMW-B7	CVVUCR	33	211121 P23	112	
120	SPIRE PMW Ch21-24 . 24-	SPB.I	-	S092	021SS-38	6			CVVUCR	33	211121 P23	120	
128	SPIRE PMW Ch21-24 . 24gnd	SPB.I	-	S092	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P23	128	
-	Faraday Link							Cable P18 Farady con to Busbar					
047	SPIRE PMW B05 GND WIRE A3	SPX.-	-	S453	010B0-30			Con to Cable from P19 GND/Shds	CVVUCR	33	211121 P23	047	

# Pin Allocation List (Harness)

**Connector:** 312100 J02  
**Item:** HSSVMCB1  
**EMC-Category:** 2/ISig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 05)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
090	SPIRE PMW Ch25-28 . 25+	SPB.I	-	S094	021SS-38	7		PMW-R1	CVVUCR	33	211121 P23	090	
079	SPIRE PMW Ch25-28 . 25-	SPB.I	-	S094	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	079	3.
128	SPIRE PMW Ch25-28 . 25gnd	SPB.I	-	S094	021SS-38	7			CVVUCR	33	211121 P23	128	3.
102	SPIRE PMW Ch25-28 . 26+	SPB.I	-	S094	021SS-38	7		PMW-G1	CVVUCR	33	211121 P23	102	
101	SPIRE PMW Ch25-28 . 26-	SPB.I	-	S094	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	101	3.
128	SPIRE PMW Ch25-28 . 26gnd	SPB.I	-	S094	021SS-38	7			CVVUCR	33	211121 P23	128	3.
092	SPIRE PMW Ch25-28 . 27+	SPB.I	-	S094	021SS-38	7		PMW-T2	CVVUCR	33	211121 P23	092	
091	SPIRE PMW Ch25-28 . 27-	SPB.I	-	S094	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	091	3.
128	SPIRE PMW Ch25-28 . 27gnd	SPB.I	-	S094	021SS-38	7			CVVUCR	33	211121 P23	128	3.
103	SPIRE PMW Ch25-28 . 28+	SPB.I	-	S094	021SS-38	7		PMW-E1	CVVUCR	33	211121 P23	103	
113	SPIRE PMW Ch25-28 . 28-	SPB.I	-	S094	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	113	3.
128	SPIRE PMW Ch25-28 . 28gnd	SPB.I	-	S094	021SS-38	7			CVVUCR	33	211121 P23	128	3.
058	SPIRE PMW Ch29-32 . 29+	SPB.I	-	S095	021SS-38	8		PMW-D1	CVVUCR	33	211121 P23	058	
046	SPIRE PMW Ch29-32 . 29-	SPB.I	-	S095	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	046	3.
047	SPIRE PMW Ch29-32 . 29gnd	SPB.I	-	S095	021SS-38	8			CVVUCR	33	211121 P23	128	
068	SPIRE PMW Ch29-32 . 30+	SPB.I	-	S095	021SS-38	8		PMW-F1	CVVUCR	33	211121 P23	068	
057	SPIRE PMW Ch29-32 . 30-	SPB.I	-	S095	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	057	3.
128	SPIRE PMW Ch29-32 . 30gnd	SPB.I	-	S095	021SS-38	8			CVVUCR	33	211121 P23	128	3.
069	SPIRE PMW Ch29-32 . 31+	SPB.I	-	S095	021SS-38	8		PMW-E2	CVVUCR	33	211121 P23	069	
080	SPIRE PMW Ch29-32 . 31-	SPB.I	-	S095	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	080	3.
128	SPIRE PMW Ch29-32 . 31gnd	SPB.I	-	S095	021SS-38	8			CVVUCR	33	211121 P23	128	3.
070	SPIRE PMW Ch29-32 . 32+	SPB.I	-	S095	021SS-38	8		PMW-G2	CVVUCR	33	211121 P23	070	
081	SPIRE PMW Ch29-32 . 32-	SPB.I	-	S095	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	081	3.
128	SPIRE PMW Ch29-32 . 32gnd	SPB.I	-	S095	021SS-38	8			CVVUCR	33	211121 P23	128	3.
023	SPIRE PMW Ch33-36 . 33+	SPB.I	-	S096	021SS-38	9		PMW-F2	CVVUCR	33	211121 P23	023	
034	SPIRE PMW Ch33-36 . 33-	SPB.I	-	S096	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P23	034	3.
004	SPIRE PMW Ch33-36 . 33gnd	SPB.I	-	S096	021SS-38	9			CVVUCR	33	211121 P23	004	3.
033	SPIRE PMW Ch33-36 . 34+	SPB.I	-	S096	021SS-38	9		PMW-G3	CVVUCR	33	211121 P23	033	

# Pin Allocation List

(Harness)

**Connector:** 312100 J02  
**Item:** HSSVMCB1  
**EMC-Category:** 2i/Sig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 05)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
045	SPIRE PMW Ch33-36 . 34-	SPB.I	-	S096	021SS-38	9		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P23	045	
004	SPIRE PMW Ch33-36 . 34gnd	SPB.I	-	S096	021SS-38	9			CVUUCR	33	211121 P23	004	3.
044	SPIRE PMW Ch33-36 . 35+	SPB.I	-	S096	021SS-38	9		PMW-E3	CVUUCR	33	211121 P23	044	
056	SPIRE PMW Ch33-36 . 35-	SPB.I	-	S096	021SS-38	9		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P23	056	
004	SPIRE PMW Ch33-36 . 35gnd	SPB.I	-	S096	021SS-38	9			CVUUCR	33	211121 P23	004	3.
022	SPIRE PMW Ch33-36 . 36+	SPB.I	-	S096	021SS-38	9		PMW-D3	CVUUCR	33	211121 P23	022	
032	SPIRE PMW Ch33-36 . 36-	SPB.I	-	S096	021SS-38	9		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P23	032	
004	SPIRE PMW Ch33-36 . 36gnd	SPB.I	-	S096	021SS-38	9			CVUUCR	33	211121 P23	004	3.
-	Faraday Link							Cable P19 Farady con to Busbar					
004	SPIRE PMW B05 GND WIRE A4	SPX.-	-	S454	010B0-30			Con to Cable from P20 GND/Shds	CVUUCR	33	211121 P23	004	
013	SPIRE PMW Ch37-40 . 37+	SPB.I	-	S099	021SS-38	10		PMW-F3	CVUUCR	33	211121 P23	013	
012	SPIRE PMW Ch37-40 . 37-	SPB.I	-	S099	021SS-38	10		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	012	
004	SPIRE PMW Ch37-40 . 37gnd	SPB.I	-	S099	021SS-38	10			CVUUCR	33	211121 P23	004	
021	SPIRE PMW Ch37-40 . 38+	SPB.I	-	S099	021SS-38	10		PMW-G4	CVUUCR	33	211121 P23	021	
020	SPIRE PMW Ch37-40 . 38-	SPB.I	-	S099	021SS-38	10		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	020	
004	SPIRE PMW Ch37-40 . 38gnd	SPB.I	-	S099	021SS-38	10			CVUUCR	33	211121 P23	004	
031	SPIRE PMW Ch37-40 . 39+	SPB.I	-	S099	021SS-38	10		PMW-E4	CVUUCR	33	211121 P23	031	
043	SPIRE PMW Ch37-40 . 39-	SPB.I	-	S099	021SS-38	10		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	043	
004	SPIRE PMW Ch37-40 . 39gnd	SPB.I	-	S099	021SS-38	10			CVUUCR	33	211121 P23	004	
042	SPIRE PMW Ch37-40 . 40+	SPB.I	-	S099	021SS-38	10		PMW-F4	CVUUCR	33	211121 P23	042	
054	SPIRE PMW Ch37-40 . 40-	SPB.I	-	S099	021SS-38	10		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	054	
004	SPIRE PMW Ch37-40 . 40gnd	SPB.I	-	S099	021SS-38	10			CVUUCR	33	211121 P23	004	
010	SPIRE PMW Ch41-44 . 41+	SPB.I	-	S100	021SS-38	11		PMW-E5	CVUUCR	33	211121 P23	010	
011	SPIRE PMW Ch41-44 . 41-	SPB.I	-	S100	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	011	
004	SPIRE PMW Ch41-44 . 41gnd	SPB.I	-	S100	021SS-38	11			CVUUCR	33	211121 P23	004	
019	SPIRE PMW Ch41-44 . 42+	SPB.I	-	S100	021SS-38	11		PMW-D5	CVUUCR	33	211121 P23	019	



# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Project: **HERSCHEL**

**Connector:** 312100 J02  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 05)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
029	SPIRE PMW Ch41-44 . 42-	SPB.I	-	S100	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	029	
004	SPIRE PMW Ch41-44 . 42gnd	SPB.I	-	S100	021SS-38	11			CVUUCR	33	211121 P23	004	
041	SPIRE PMW Ch41-44 . 43+	SPB.I	-	S100	021SS-38	11		PMW-F5	CVUUCR	33	211121 P23	041	
030	SPIRE PMW Ch41-44 . 43-	SPB.I	-	S100	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	030	
004	SPIRE PMW Ch41-44 . 43gnd	SPB.I	-	S100	021SS-38	11			CVUUCR	33	211121 P23	004	
053	SPIRE PMW Ch41-44 . 44+	SPB.I	-	S100	021SS-38	11		PMW-G5	CVUUCR	33	211121 P23	053	
052	SPIRE PMW Ch41-44 . 44-	SPB.I	-	S100	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	052	
004	SPIRE PMW Ch41-44 . 44gnd	SPB.I	-	S100	021SS-38	11			CVUUCR	33	211121 P23	004	
009	SPIRE PMW Ch45-48 . 45+	SPB.I	-	S101	021SS-38	12		PMW-E6	CVUUCR	33	211121 P23	009	
017	SPIRE PMW Ch45-48 . 45-	SPB.I	-	S101	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	017	
004	SPIRE PMW Ch45-48 . 45gnd	SPB.I	-	S101	021SS-38	12			CVUUCR	33	211121 P23	004	
018	SPIRE PMW Ch45-48 . 46+	SPB.I	-	S101	021SS-38	12		PMW-G6	CVUUCR	33	211121 P23	018	
028	SPIRE PMW Ch45-48 . 46-	SPB.I	-	S101	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	028	
004	SPIRE PMW Ch45-48 . 46gnd	SPB.I	-	S101	021SS-38	12			CVUUCR	33	211121 P23	004	
016	SPIRE PMW Ch45-48 . 47+	SPB.I	-	S101	021SS-38	12		PMW-F6	CVUUCR	33	211121 P23	016	
027	SPIRE PMW Ch45-48 . 47-	SPB.I	-	S101	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	027	
004	SPIRE PMW Ch45-48 . 47gnd	SPB.I	-	S101	021SS-38	12			CVUUCR	33	211121 P23	004	
040	SPIRE PMW Ch45-48 . 48+	SPB.I	-	S101	021SS-38	12		PMW-G7	CVUUCR	33	211121 P23	040	
039	SPIRE PMW Ch45-48 . 48-	SPB.I	-	S101	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P23	039	
004	SPIRE PMW Ch45-48 . 48gnd	SPB.I	-	S101	021SS-38	12			CVUUCR	33	211121 P23	004	
-	Faraday Link							Cable P20 Farady con to Busbar					
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					

# Pin Allocation List (Harness)

**Connector:** 312100 J02  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 05)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
005	Faraday Pins							Connected to Busbar ECR0039tbc					
006	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					
015	Faraday Pins							Connected to Busbar ECR0039tbc					
024	Faraday Pins							Connected to Busbar ECR0039tbc					
025	Faraday Pins							Connected to Busbar ECR0039tbc					
035	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
093	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
104	Faraday Pins							Connected to Busbar ECR0039tbc					
105	Faraday Pins							Connected to Busbar ECR0039tbc					
114	Faraday Pins							Connected to Busbar ECR0039tbc					
115	Faraday Pins							Connected to Busbar ECR0039tbc					
121	Faraday Pins							Connected to Busbar ECR0039tbc					
122	Faraday Pins							Connected to Busbar ECR0039tbc					
123	Faraday Pins							Connected to Busbar ECR0039tbc					
124	Faraday Pins							Connected to Busbar ECR0039tbc					

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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**Connector:** 312100 J02  
**Item:** HSSVMCB1  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB1 (SPIRE Bundle 05)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	Connector Housing							CH isolated from Farady Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Insulating Jacket												
-	Bundle Overall Shd							Bundle Overall Shd con to Backshell					
-	to inner overall shield												



# Pin Allocation List

(Harness)

Doc.No.: HP-2-ASED-IC-0016  
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For wiring schematic  
see Silt-1S-06 CVUUCR P24

Connector: 312200 J03

Item: HSSVMCB2

EMC-Category: 2i/Sig H fr CWVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 06)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PLW B06 GND WIRE A1	SPX.- -	S461	010B0-30			Con to Cable from P13 GND/Shds	CVUUCR	33	211121 P24	036	
026	SPIRE PLW Ch01-04 . 1+	SPA.I -	S104	021SS-38	1		PLW-R1	CVUUCR	33	211121 P24	026	
037	SPIRE PLW Ch01-04 . 1-	SPA.I -	S104	021SS-38	1			CVUUCR	33	211121 P24	037	
036	SPIRE PLW Ch01-04 . 1gnd	SPA.I -	S104	021SS-38	1		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P24	036	
038	SPIRE PLW Ch01-04 . 2+	SPA.I -	S104	021SS-38	1		PLW-A8	CVUUCR	33	211121 P24	038	
049	SPIRE PLW Ch01-04 . 2-	SPA.I -	S104	021SS-38	1			CVUUCR	33	211121 P24	049	
036	SPIRE PLW Ch01-04 . 2gnd	SPA.I -	S104	021SS-38	1		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P24	036	
048	SPIRE PLW Ch01-04 . 3+	SPA.I -	S104	021SS-38	1		PLW-A7	CVUUCR	33	211121 P24	048	
060	SPIRE PLW Ch01-04 . 3-	SPA.I -	S104	021SS-38	1			CVUUCR	33	211121 P24	060	
036	SPIRE PLW Ch01-04 . 3gnd	SPA.I -	S104	021SS-38	1		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P24	036	
059	SPIRE PLW Ch01-04 . 4+	SPA.I -	S104	021SS-38	1		PLW-A6	CVUUCR	33	211121 P24	059	
071	SPIRE PLW Ch01-04 . 4-	SPA.I -	S104	021SS-38	1			CVUUCR	33	211121 P24	071	
036	SPIRE PLW Ch01-04 . 4gnd	SPA.I -	S104	021SS-38	1		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P24	036	
050	SPIRE PLW Ch05-08 . 5+	SPA.I -	S105	021SS-38	2		PLW-A9	CVUUCR	33	211121 P24	050	
061	SPIRE PLW Ch05-08 . 5-	SPA.I -	S105	021SS-38	2			CVUUCR	33	211121 P24	061	
036	SPIRE PLW Ch05-08 . 5gnd	SPA.I -	S105	021SS-38	2		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P24	036	
062	SPIRE PLW Ch05-08 . 6+	SPA.I -	S105	021SS-38	2		PLW-C9	CVUUCR	33	211121 P24	062	
051	SPIRE PLW Ch05-08 . 6-	SPA.I -	S105	021SS-38	2			CVUUCR	33	211121 P24	051	
036	SPIRE PLW Ch05-08 . 6gnd	SPA.I -	S105	021SS-38	2		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P24	036	
063	SPIRE PLW Ch05-08 . 7+	SPA.I -	S105	021SS-38	2		PLW-B8	CVUUCR	33	211121 P24	063	
075	SPIRE PLW Ch05-08 . 7-	SPA.I -	S105	021SS-38	2			CVUUCR	33	211121 P24	075	
036	SPIRE PLW Ch05-08 . 7gnd	SPA.I -	S105	021SS-38	2		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P24	036	
074	SPIRE PLW Ch05-08 . 8+	SPA.I -	S105	021SS-38	2		PLW-B7	CVUUCR	33	211121 P24	074	
073	SPIRE PLW Ch05-08 . 8-	SPA.I -	S105	021SS-38	2			CVUUCR	33	211121 P24	073	
036	SPIRE PLW Ch05-08 . 8gnd	SPA.I -	S105	021SS-38	2		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P24	036	
083	SPIRE PLW Ch09-12 . 9+	SPA.I -	S106	021SS-38	3		PLW-C7	CVUUCR	33	211121 P24	083	
072	SPIRE PLW Ch09-12 . 9-	SPA.I -	S106	021SS-38	3			CVUUCR	33	211121 P24	072	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-2 (of 8)

**Connector:** 312200 J03  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 06)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
036	SPIRE PLW Ch09-12 . 9gnd	SPA.I	-	S106	021SS-38	3			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P24	036	
095	SPIRE PLW Ch09-12 . 10+	SPA.I	-	S106	021SS-38	3			PLW-B5	CVVUCR	33	211121 P24	095	
084	SPIRE PLW Ch09-12 . 10-	SPA.I	-	S106	021SS-38	3				CVVUCR	33	211121 P24	084	
036	SPIRE PLW Ch09-12 . 10gnd	SPA.I	-	S106	021SS-38	3			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P24	036	
096	SPIRE PLW Ch09-12 . 11+	SPA.I	-	S106	021SS-38	3			PLW-B6	CVVUCR	33	211121 P24	096	
085	SPIRE PLW Ch09-12 . 11-	SPA.I	-	S106	021SS-38	3				CVVUCR	33	211121 P24	085	
036	SPIRE PLW Ch09-12 . 11gnd	SPA.I	-	S106	021SS-38	3			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P24	036	
106	SPIRE PLW Ch09-12 . 12+	SPA.I	-	S106	021SS-38	3			PLW-A5	CVVUCR	33	211121 P24	106	
107	SPIRE PLW Ch09-12 . 12-	SPA.I	-	S106	021SS-38	3				CVVUCR	33	211121 P24	107	
036	SPIRE PLW Ch09-12 . 12gnd	SPA.I	-	S106	021SS-38	3			Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P24	036	
-	Faraday link								Cable P13 Faraday Shd con to Busbar tbc					
128	SPIRE PMW B06 GND WIRE A2	SPX.-	-	S462	010B0-30				Con to Cable from P13 GND/Shds	CVVUCR	33	211121 P24	128	
086	SPIRE PLW Ch13-16 . 13+	SPA.I	-	S109	021SS-38	4			PLW-T1	CVVUCR	33	211121 P24	086	
087	SPIRE PLW Ch13-16 . 13-	SPA.I	-	S109	021SS-38	4				CVVUCR	33	211121 P24	087	
036	SPIRE PLW Ch13-16 . 13gnd	SPA.I	-	S109	021SS-38	4			Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	036	3.
097	SPIRE PLW Ch13-16 . 14+	SPA.I	-	S109	021SS-38	4			PLW-B4	CVVUCR	33	211121 P24	097	
098	SPIRE PLW Ch13-16 . 14-	SPA.I	-	S109	021SS-38	4				CVVUCR	33	211121 P24	098	
036	SPIRE PLW Ch13-16 . 14gnd	SPA.I	-	S109	021SS-38	4			Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	036	3.
108	SPIRE PLW Ch13-16 . 15+	SPA.I	-	S109	021SS-38	4			PLW-C4	CVVUCR	33	211121 P24	108	
109	SPIRE PLW Ch13-16 . 15-	SPA.I	-	S109	021SS-38	4				CVVUCR	33	211121 P24	109	
036	SPIRE PLW Ch13-16 . 15gnd	SPA.I	-	S109	021SS-38	4			Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	036	3.
116	SPIRE PLW Ch13-16 . 16+	SPA.I	-	S109	021SS-38	4			PLW-B3	CVVUCR	33	211121 P24	116	
117	SPIRE PLW Ch13-16 . 16-	SPA.I	-	S109	021SS-38	4				CVVUCR	33	211121 P24	117	
036	SPIRE PLW Ch13-16 . 16gnd	SPA.I	-	S109	021SS-38	4			Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	036	3.
055	SPIRE PLW Ch17-20 . 17+	SPA.I	-	S110	021SS-38	5			PLW-C2	CVVUCR	33	211121 P24	055	

# Pin Allocation List

(Harness)

**Connector:** 312200 J03  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 06)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
066	SPIRE PLW Ch17-20 . 17-	SPA.I	-	S110	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	066	
128	SPIRE PLW Ch17-20 . 17gnd	SPA.I	-	S110	021SS-38	5			CVVUCR	33	211121 P24	128	
067	SPIRE PLW Ch17-20 . 18+	SPA.I	-	S110	021SS-38	5		PLW-B2	CVVUCR	33	211121 P24	067	
078	SPIRE PLW Ch17-20 . 18-	SPA.I	-	S110	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	078	
128	SPIRE PLW Ch17-20 . 18gnd	SPA.I	-	S110	021SS-38	5			CVVUCR	33	211121 P24	128	
076	SPIRE PLW Ch17-20 . 19+	SPA.I	-	S110	021SS-38	5		PLW-B1	CVVUCR	33	211121 P24	076	
077	SPIRE PLW Ch17-20 . 19-	SPA.I	-	S110	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	077	
128	SPIRE PLW Ch17-20 . 19gnd	SPA.I	-	S110	021SS-38	5			CVVUCR	33	211121 P24	128	
088	SPIRE PLW Ch17-20 . 20+	SPA.I	-	S110	021SS-38	5		PLW-A3	CVVUCR	33	211121 P24	088	
089	SPIRE PLW Ch17-20 . 20-	SPA.I	-	S110	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	089	
128	SPIRE PLW Ch17-20 . 20gnd	SPA.I	-	S110	021SS-38	5			CVVUCR	33	211121 P24	128	
099	SPIRE PLW Ch21-24 . 21+	SPA.I	-	S111	021SS-38	6		PLW-A4	CVVUCR	33	211121 P24	099	
100	SPIRE PLW Ch21-24 . 21-	SPA.I	-	S111	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	100	
128	SPIRE PLW Ch21-24 . 21gnd	SPA.I	-	S111	021SS-38	6			CVVUCR	33	211121 P24	128	
110	SPIRE PLW Ch21-24 . 22+	SPA.I	-	S111	021SS-38	6		PLW-A1	CVVUCR	33	211121 P24	110	
111	SPIRE PLW Ch21-24 . 22-	SPA.I	-	S111	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	111	
128	SPIRE PLW Ch21-24 . 22gnd	SPA.I	-	S111	021SS-38	6			CVVUCR	33	211121 P24	128	
118	SPIRE PLW Ch21-24 . 23+	SPA.I	-	S111	021SS-38	6		PLW-DK1	CVVUCR	33	211121 P24	118	
119	SPIRE PLW Ch21-24 . 23-	SPA.I	-	S111	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	119	
128	SPIRE PLW Ch21-24 . 23gnd	SPA.I	-	S111	021SS-38	6			CVVUCR	33	211121 P24	128	
112	SPIRE PLW Ch21-24 . 24+	SPA.I	-	S111	021SS-38	6		PLW-A2	CVVUCR	33	211121 P24	112	
120	SPIRE PLW Ch21-24 . 24-	SPA.I	-	S111	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P24	120	
128	SPIRE PLW Ch21-24 . 24gnd	SPA.I	-	S111	021SS-38	6			CVVUCR	33	211121 P24	128	
-	Faraday link							Cable P14 Faraday con to Busbar					
047	SPIRE PMW B06 GND WIRE A3	SPX.-	-	S463	010B0-30			Con to Cable from P15 GND/Shds	CVVUCR	33	211121 P24	047	

# Pin Allocation List (Harness)

**Connector:** 312200 J03  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 06)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24.03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
090	SPIRE PLW Ch25-28 . 25+	SPA.I	-	S113	021SS-38	7		PLW-E1	CVUUCR	33	211121 P24	090	
079	SPIRE PLW Ch25-28 . 25-	SPA.I	-	S113	021SS-38	7		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	079	
128	SPIRE PLW Ch25-28 . 25gnd	SPA.I	-	S113	021SS-38	7			CVUUCR	33	211121 P24	128	3.
102	SPIRE PLW Ch25-28 . 26+	SPA.I	-	S113	021SS-38	7		PLW-E2	CVUUCR	33	211121 P24	102	
101	SPIRE PLW Ch25-28 . 26-	SPA.I	-	S113	021SS-38	7		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	101	
128	SPIRE PLW Ch25-28 . 26gnd	SPA.I	-	S113	021SS-38	7			CVUUCR	33	211121 P24	128	3.
092	SPIRE PLW Ch25-28 . 27+	SPA.I	-	S113	021SS-38	7		PLW-E3	CVUUCR	33	211121 P24	092	
091	SPIRE PLW Ch25-28 . 27-	SPA.I	-	S113	021SS-38	7		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	091	
128	SPIRE PLW Ch25-28 . 27gnd	SPA.I	-	S113	021SS-38	7			CVUUCR	33	211121 P24	128	3.
103	SPIRE PLW Ch25-28 . 28+	SPA.I	-	S113	021SS-38	7		PLW-E4	CVUUCR	33	211121 P24	103	
113	SPIRE PLW Ch25-28 . 28-	SPA.I	-	S113	021SS-38	7		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	113	
128	SPIRE PLW Ch25-28 . 28gnd	SPA.I	-	S113	021SS-38	7			CVUUCR	33	211121 P24	128	3.
058	SPIRE PLW Ch29-32 . 29+	SPA.I	-	S114	021SS-38	8		PLW-D1	CVUUCR	33	211121 P24	058	
046	SPIRE PLW Ch29-32 . 29-	SPA.I	-	S114	021SS-38	8		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	046	
128	SPIRE PLW Ch29-32 . 29gnd	SPA.I	-	S114	021SS-38	8			CVUUCR	33	211121 P24	128	3.
068	SPIRE PLW Ch29-32 . 30+	SPA.I	-	S114	021SS-38	8		PLW-D2	CVUUCR	33	211121 P24	068	
057	SPIRE PLW Ch29-32 . 30-	SPA.I	-	S114	021SS-38	8		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	057	
128	SPIRE PLW Ch29-32 . 30gnd	SPA.I	-	S114	021SS-38	8			CVUUCR	33	211121 P24	128	3.
069	SPIRE PLW Ch29-32 . 31+	SPA.I	-	S114	021SS-38	8		PLW-D3	CVUUCR	33	211121 P24	069	
080	SPIRE PLW Ch29-32 . 31-	SPA.I	-	S114	021SS-38	8		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	080	
128	SPIRE PLW Ch29-32 . 31gnd	SPA.I	-	S114	021SS-38	8			CVUUCR	33	211121 P24	128	3.
070	SPIRE PLW Ch29-32 . 32+	SPA.I	-	S114	021SS-38	8		PLW-D4	CVUUCR	33	211121 P24	070	
081	SPIRE PLW Ch29-32 . 32-	SPA.I	-	S114	021SS-38	8		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	081	
128	SPIRE PLW Ch29-32 . 32gnd	SPA.I	-	S114	021SS-38	8			CVUUCR	33	211121 P24	128	3.
023	SPIRE PLW Ch33-36 . 33+	SPA.I	-	S115	021SS-38	9		PLW-C1	CVUUCR	33	211121 P24	023	
034	SPIRE PLW Ch33-36 . 33-	SPA.I	-	S115	021SS-38	9		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	034	
004	SPIRE PLW Ch33-36 . 33gnd	SPA.I	-	S115	021SS-38	9			CVUUCR	33	211121 P24	004	3.
033	SPIRE PLW Ch33-36 . 34+	SPA.I	-	S115	021SS-38	9		PLW-C3	CVUUCR	33	211121 P24	033	
045	SPIRE PLW Ch33-36 . 34-	SPA.I	-	S115	021SS-38	9		Daisy ch to Pin 047 (A3)	CVUUCR	33	211121 P24	045	
004	SPIRE PLW Ch33-36 . 34gnd	SPA.I	-	S115	021SS-38	9			CVUUCR	33	211121 P24	004	3.



# Pin Allocation List (Harness)

**Connector:** 312200 J03  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 06)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
044	SPIRE PLW Ch33-36 . 35+	SPA.I	-	S115	021SS-38	9		PLW-C5	CVVUCR	33	211121 P24	044	
056	SPIRE PLW Ch33-36 . 35-	SPA.I	-	S115	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P24	056	
004	SPIRE PLW Ch33-36 . 35gnd	SPA.I	-	S115	021SS-38	9			CVVUCR	33	211121 P24	004	3.
022	SPIRE PLW Ch33-36 . 36+	SPA.I	-	S115	021SS-38	9		PLW-T2	CVVUCR	33	211121 P24	022	
032	SPIRE PLW Ch33-36 . 36-	SPA.I	-	S115	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P24	032	
004	SPIRE PLW Ch33-36 . 36gnd	SPA.I	-	S115	021SS-38	9			CVVUCR	33	211121 P24	004	3.
-	Faraday Link							Cable P15 Faraday Shd con to Busbar tbc					
004	SPIRE PMW B06 GND WIRE A4	SPX.-	-	S464	010B0-30			Con to Cable from P13 GND/Shrds	CVVUCR	33	211121 P24	004	
013	SPIRE PLW Ch37-40 . 37+	SPA.I	-	S118	021SS-38	10		PLW-E5	CVVUCR	33	211121 P24	013	
012	SPIRE PLW Ch37-40 . 37-	SPA.I	-	S118	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P24	012	
004	SPIRE PLW Ch37-40 . 37gnd	SPA.I	-	S118	021SS-38	10			CVVUCR	33	211121 P24	004	
021	SPIRE PLW Ch37-40 . 38+	SPA.I	-	S118	021SS-38	10		PLW-C6	CVVUCR	33	211121 P24	021	
020	SPIRE PLW Ch37-40 . 38-	SPA.I	-	S118	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P24	020	
004	SPIRE PLW Ch37-40 . 38gnd	SPA.I	-	S118	021SS-38	10			CVVUCR	33	211121 P24	004	
031	SPIRE PLW Ch37-40 . 39+	SPA.I	-	S118	021SS-38	10		PLW-C8	CVVUCR	33	211121 P24	031	
043	SPIRE PLW Ch37-40 . 39-	SPA.I	-	S118	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P24	043	
004	SPIRE PLW Ch37-40 . 39gnd	SPA.I	-	S118	021SS-38	10			CVVUCR	33	211121 P24	004	
042	SPIRE PLW Ch37-40 . 40+	SPA.I	-	S118	021SS-38	10		PLW-D5	CVVUCR	33	211121 P24	042	
054	SPIRE PLW Ch37-40 . 40-	SPA.I	-	S118	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P24	054	
004	SPIRE PLW Ch37-40 . 40gnd	SPA.I	-	S118	021SS-38	10			CVVUCR	33	211121 P24	004	
010	SPIRE PLW Ch41-44 . 41+	SPA.I	-	S119	021SS-38	11		PLW-D6	CVVUCR	33	211121 P24	010	
011	SPIRE PLW Ch41-44 . 41-	SPA.I	-	S119	021SS-38	11		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P24	011	
004	SPIRE PLW Ch41-44 . 41gnd	SPA.I	-	S119	021SS-38	11			CVVUCR	33	211121 P24	004	
019	SPIRE PLW Ch41-44 . 42+	SPA.I	-	S119	021SS-38	11		PLW-D7	CVVUCR	33	211121 P24	019	
029	SPIRE PLW Ch41-44 . 42-	SPA.I	-	S119	021SS-38	11			CVVUCR	33	211121 P24	029	

# Pin Allocation List (Harness)

**Connector:** 312200 J03  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 06)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24.03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
004	SPIRE PLW Ch41-44 . 42gnd	SPA.I	-	S119	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P24	004	
041	SPIRE PLW Ch41-44 . 43+	SPA.I	-	S119	021SS-38	11		PLW-D8	CVUUCR	33	211121 P24	041	
030	SPIRE PLW Ch41-44 . 43-	SPA.I	-	S119	021SS-38	11			CVUUCR	33	211121 P24	030	
004	SPIRE PLW Ch41-44 . 43gnd	SPA.I	-	S119	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P24	004	
053	SPIRE PLW Ch41-44 . 44+	SPA.I	-	S119	021SS-38	11		PLW-E7	CVUUCR	33	211121 P24	053	
052	SPIRE PLW Ch41-44 . 44-	SPA.I	-	S119	021SS-38	11			CVUUCR	33	211121 P24	052	
004	SPIRE PLW Ch41-44 . 44gnd	SPA.I	-	S119	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P24	004	
009	SPIRE PLW Ch45-48 . 45+	SPA.I	-	S120	021SS-38	12		PLW-E6	CVUUCR	33	211121 P24	009	
017	SPIRE PLW Ch45-48 . 45-	SPA.I	-	S120	021SS-38	12			CVUUCR	33	211121 P24	017	
004	SPIRE PLW Ch45-48 . 45gnd	SPA.I	-	S120	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P24	004	
018	SPIRE PLW Ch45-48 . 46+	SPA.I	-	S120	021SS-38	12		PLW-E8	CVUUCR	33	211121 P24	018	
028	SPIRE PLW Ch45-48 . 46-	SPA.I	-	S120	021SS-38	12			CVUUCR	33	211121 P24	028	
004	SPIRE PLW Ch45-48 . 46gnd	SPA.I	-	S120	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P24	004	
016	SPIRE PLW Ch45-48 . 47+	SPA.I	-	S120	021SS-38	12		PLW-DK2	CVUUCR	33	211121 P24	016	
027	SPIRE PLW Ch45-48 . 47-	SPA.I	-	S120	021SS-38	12			CVUUCR	33	211121 P24	027	
004	SPIRE PLW Ch45-48 . 47gnd	SPA.I	-	S120	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P24	004	
040	SPIRE PLW Ch45-48 . 48+	SPA.I	-	S120	021SS-38	12		PLW-E9	CVUUCR	33	211121 P24	040	
039	SPIRE PLW Ch45-48 . 48-	SPA.I	-	S120	021SS-38	12			CVUUCR	33	211121 P24	039	
004	SPIRE PLW Ch45-48 . 48gnd	SPA.I	-	S120	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P24	004	
-	Faraday Link	-	-	-	-	-	-	Cable P13 Faraday Shd con to Busbar tbc	-	-	-	-	-
001	Faraday Pins	-	-	-	-	-	-	Connected to Busbar ECR0039 tbc	-	-	-	-	-
002	Faraday Pins	-	-	-	-	-	-	Connected to Busbar ECR0039 tbc	-	-	-	-	-
003	Faraday Pins	-	-	-	-	-	-	Connected to Busbar ECR0039 tbc	-	-	-	-	-
005	Faraday Pins	-	-	-	-	-	-	Connected to Busbar ECR0039 tbc	-	-	-	-	-

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 312200 J03

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 06)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.									
006	Faraday Pins						Connected to Busbar ECR0039 tbc					
007	Faraday Pins						Connected to Busbar ECR0039 tbc					
008	Faraday Pins						Connected to Busbar ECR0039 tbc					
014	Faraday Pins						Connected to Busbar ECR0039 tbc					
015	Faraday Pins						Connected to Busbar ECR0039 tbc					
024	Faraday Pins						Connected to Busbar ECR0039 tbc					
025	Faraday Pins						Connected to Busbar ECR0039 tbc					
035	Faraday Pins						Connected to Busbar ECR0039 tbc					
082	Faraday Pins						Connected to Busbar ECR0039 tbc					
093	Faraday Pins						Connected to Busbar ECR0039 tbc					
094	Faraday Pins						Connected to Busbar ECR0039 tbc					
104	Faraday Pins						Connected to Busbar ECR0039 tbc					
105	Faraday Pins						Connected to Busbar ECR0039 tbc					
114	Faraday Pins						Connected to Busbar ECR0039 tbc					
115	Faraday Pins						Connected to Busbar ECR0039 tbc					
121	Faraday Pins						Connected to Busbar ECR0039 tbc					
122	Faraday Pins						Connected to Busbar ECR0039 tbc					
123	Faraday Pins						Connected to Busbar ECR0039 tbc					
124	Faraday Pins						Connected to Busbar ECR0039 tbc					
125	Faraday Pins						Connected to Busbar ECR0039 tbc					

Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-8 (of 8)

**Connector:** 312200 J03  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 06)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
126	Faraday Pins						Connected to Busbar ECR0039 tbc					
127	Faraday Pins						Connected to Busbar ECR0039 tbc					
-	Connector Housing						CH isolated from Faraday Shds					
-	Insulating Jacket						Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd						Bundle Overall Shd con to Backshell					



**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List

(Harness)

Doc.No.: HP-2-ASED-IC-0016  
 Issue: 1.0 Date: 21.04.2004  
 Sheet: PAL-1 (of 8)

For wiring schematic  
 see SIH-1S-07 CVVUCR P25

**Connector:** 312200 J04  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 07)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PLW B07 GND WIRE A1	SPX.- -	S471	010B0-30			Con to Cable from P09 GND/Shds	CVVUCR	33	211121 P25	036	
026	SPIRE PSW (5) Ch01-04 . 1+	SPC.I -	S158	021SS-38	1		PSW-D11	CVVUCR	33	211121 P25	026	
037	SPIRE PSW (5) Ch01-04 . 1-	SPC.I -	S158	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P25	037	
036	SPIRE PSW (5) Ch01-04 . 1gnd	SPC.I -	S158	021SS-38	1			CVVUCR	33	211121 P25	036	
038	SPIRE PSW (5) Ch01-04 . 2+	SPC.I -	S158	021SS-38	1		PSW-A10	CVVUCR	33	211121 P25	038	
049	SPIRE PSW (5) Ch01-04 . 2-	SPC.I -	S158	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P25	049	
036	SPIRE PSW (5) Ch01-04 . 2gnd	SPC.I -	S158	021SS-38	1			CVVUCR	33	211121 P25	036	
048	SPIRE PSW (5) Ch01-04 . 3+	SPC.I -	S158	021SS-38	1		PSW-E10	CVVUCR	33	211121 P25	048	
060	SPIRE PSW (5) Ch01-04 . 3-	SPC.I -	S158	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P25	060	
036	SPIRE PSW (5) Ch01-04 . 3gnd	SPC.I -	S158	021SS-38	1			CVVUCR	33	211121 P25	036	
059	SPIRE PSW (5) Ch01-04 . 4+	SPC.I -	S158	021SS-38	1		PSW-C10	CVVUCR	33	211121 P25	059	
071	SPIRE PSW (5) Ch01-04 . 4-	SPC.I -	S158	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P25	071	
036	SPIRE PSW (5) Ch01-04 . 4gnd	SPC.I -	S158	021SS-38	1			CVVUCR	33	211121 P25	036	
050	SPIRE PSW (5) Ch05-08 . 5+	SPC.I -	S159	021SS-38	2		PSW-B10	CVVUCR	33	211121 P25	050	
061	SPIRE PSW (5) Ch05-08 . 5-	SPC.I -	S159	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P25	061	
036	SPIRE PSW (5) Ch05-08 . 5gnd	SPC.I -	S159	021SS-38	2			CVVUCR	33	211121 P25	036	
062	SPIRE PSW (5) Ch05-08 . 6+	SPC.I -	S159	021SS-38	2		PSW-D10	CVVUCR	33	211121 P25	062	
051	SPIRE PSW (5) Ch05-08 . 6-	SPC.I -	S159	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P25	051	
036	SPIRE PSW (5) Ch05-08 . 6gnd	SPC.I -	S159	021SS-38	2			CVVUCR	33	211121 P25	036	
063	SPIRE PSW (5) Ch05-08 . 7+	SPC.I -	S159	021SS-38	2		PSW-A9	CVVUCR	33	211121 P25	063	
075	SPIRE PSW (5) Ch05-08 . 7-	SPC.I -	S159	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P25	075	
036	SPIRE PSW (5) Ch05-08 . 7gnd	SPC.I -	S159	021SS-38	2			CVVUCR	33	211121 P25	036	
074	SPIRE PSW (5) Ch05-08 . 8+	SPC.I -	S159	021SS-38	2		PSW-E9	CVVUCR	33	211121 P25	074	
073	SPIRE PSW (5) Ch05-08 . 8-	SPC.I -	S159	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P25	073	
036	SPIRE PSW (5) Ch05-08 . 8gnd	SPC.I -	S159	021SS-38	2			CVVUCR	33	211121 P25	036	
083	SPIRE PSW (5) Ch09-12 . 9+	SPC.I -	S160	021SS-38	3		PSW-C9	CVVUCR	33	211121 P25	083	
072	SPIRE PSW (5) Ch09-12 . 9-	SPC.I -	S160	021SS-38	3			CVVUCR	33	211121 P25	072	

**Pin Allocation List**  
(Harness)**Connector:** 312200 J04**Item:** HSSVMCB2**EMC-Category:** 2/Sig H fr CWWFT to SVMCB**Function:** SPIRE SVM CB2 (SPIRE Bundle 07)**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)**Conn.-Type:** SCC340104401B032435P**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
036	SPIRE PSW (5) Ch09-12 . 9gnd	SPC.I	-	S160	021SS-38	3		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P25	036	
095	SPIRE PSW (5) Ch09-12 . 10+	SPC.I	-	S160	021SS-38	3		PSW-B9	CVUUCR	33	211121 P25	095	
084	SPIRE PSW (5) Ch09-12 . 10-	SPC.I	-	S160	021SS-38	3			CVUUCR	33	211121 P25	084	
036	SPIRE PSW (5) Ch09-12 . 10gnd	SPC.I	-	S160	021SS-38	3		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P25	036	
096	SPIRE PSW (5) Ch09-12 . 11+	SPC.I	-	S160	021SS-38	3		PSW-D9	CVUUCR	33	211121 P25	096	
085	SPIRE PSW (5) Ch09-12 . 11-	SPC.I	-	S160	021SS-38	3			CVUUCR	33	211121 P25	085	
036	SPIRE PSW (5) Ch09-12 . 11gnd	SPC.I	-	S160	021SS-38	3		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P25	036	
106	SPIRE PSW (5) Ch09-12 . 12+	SPC.I	-	S160	021SS-38	3		PSW-A8	CVUUCR	33	211121 P25	106	
107	SPIRE PSW (5) Ch09-12 . 12-	SPC.I	-	S160	021SS-38	3			CVUUCR	33	211121 P25	107	
036	SPIRE PSW (5) Ch09-12 . 12gnd	SPC.I	-	S160	021SS-38	3		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P25	036	
-	Faraday Link							Cable P09 Faraday Shd con to Busbar tbc					
128	SPIRE PLW B07 GND WIRE A2	SPX.-	-	S472	010B0-30			Con to Cable from P10 GND/Shds	CVUUCR	33	211121 P25	128	
086	SPIRE PSW (5) Ch13-16 . 13+	SPC.I	-	S163	021SS-38	4		PSW-C8	CVUUCR	33	211121 P25	086	
087	SPIRE PSW (5) Ch13-16 . 13-	SPC.I	-	S163	021SS-38	4			CVUUCR	33	211121 P25	087	
036	SPIRE PSW (5) Ch13-16 . 13gnd	SPC.I	-	S163	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P25	036	3.
097	SPIRE PSW (5) Ch13-16 . 14+	SPC.I	-	S163	021SS-38	4		PSW-E8	CVUUCR	33	211121 P25	097	
098	SPIRE PSW (5) Ch13-16 . 14-	SPC.I	-	S163	021SS-38	4			CVUUCR	33	211121 P25	098	
036	SPIRE PSW (5) Ch13-16 . 14gnd	SPC.I	-	S163	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P25	036	3.
108	SPIRE PSW (5) Ch13-16 . 15+	SPC.I	-	S163	021SS-38	4		PSW-D8	CVUUCR	33	211121 P25	108	
109	SPIRE PSW (5) Ch13-16 . 15-	SPC.I	-	S163	021SS-38	4			CVUUCR	33	211121 P25	109	
036	SPIRE PSW (5) Ch13-16 . 15gnd	SPC.I	-	S163	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P25	036	3.
116	SPIRE PSW (5) Ch13-16 . 16+	SPC.I	-	S163	021SS-38	4		PSW-B8	CVUUCR	33	211121 P25	116	
117	SPIRE PSW (5) Ch13-16 . 16-	SPC.I	-	S163	021SS-38	4			CVUUCR	33	211121 P25	117	
036	SPIRE PSW (5) Ch13-16 . 16gnd	SPC.I	-	S163	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P25	036	3.
055	SPIRE PSW (5) Ch17-20 . 17+	SPC.I	-	S164	021SS-38	5		PSW-C7	CVUUCR	33	211121 P25	055	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 8)

**Connector:** 312200 J04  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 07)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
066	SPIRE PSW (5) Ch17-20 . 17-	SPC.I	-	S164	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P25	066	
128	SPIRE PSW (5) Ch17-20 . 17grnd	SPC.I	-	S164	021SS-38	5			CVVUCR	33	211121 P25	128	
067	SPIRE PSW (5) Ch17-20 . 18+	SPC.I	-	S164	021SS-38	5		PSW-E7	CVVUCR	33	211121 P25	067	
078	SPIRE PSW (5) Ch17-20 . 18-	SPC.I	-	S164	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P25	078	
128	SPIRE PSW (5) Ch17-20 . 18grnd	SPC.I	-	S164	021SS-38	5			CVVUCR	33	211121 P25	128	
076	SPIRE PSW (5) Ch17-20 . 19+	SPC.I	-	S164	021SS-38	5		PSW-A7	CVVUCR	33	211121 P25	076	
077	SPIRE PSW (5) Ch17-20 . 19-	SPC.I	-	S164	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P25	077	
128	SPIRE PSW (5) Ch17-20 . 19grnd	SPC.I	-	S164	021SS-38	5			CVVUCR	33	211121 P25	128	
088	SPIRE PSW (5) Ch17-20 . 20+	SPC.I	-	S164	021SS-38	5		PSW-D7	CVVUCR	33	211121 P25	088	
089	SPIRE PSW (5) Ch17-20 . 20-	SPC.I	-	S164	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P25	089	
128	SPIRE PSW (5) Ch17-20 . 20grnd	SPC.I	-	S164	021SS-38	5			CVVUCR	33	211121 P25	128	
099	SPIRE PSW (5) Ch21-24 . 21+	SPC.I	-	S165	021SS-38	6		PSW-B7	CVVUCR	33	211121 P25	099	
100	SPIRE PSW (5) Ch21-24 . 21-	SPC.I	-	S165	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P25	100	
128	SPIRE PSW (5) Ch21-24 . 21grnd	SPC.I	-	S165	021SS-38	6			CVVUCR	33	211121 P25	128	
110	SPIRE PSW (5) Ch21-24 . 22+	SPC.I	-	S165	021SS-38	6		PSW-C6	CVVUCR	33	211121 P25	110	
111	SPIRE PSW (5) Ch21-24 . 22-	SPC.I	-	S165	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P25	111	
128	SPIRE PSW (5) Ch21-24 . 22grnd	SPC.I	-	S165	021SS-38	6			CVVUCR	33	211121 P25	128	
118	SPIRE PSW (5) Ch21-24 . 23+	SPC.I	-	S165	021SS-38	6		PSW-E6	CVVUCR	33	211121 P25	118	
119	SPIRE PSW (5) Ch21-24 . 23-	SPC.I	-	S165	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P25	119	
128	SPIRE PSW (5) Ch21-24 . 23grnd	SPC.I	-	S165	021SS-38	6			CVVUCR	33	211121 P25	128	
112	SPIRE PSW (5) Ch21-24 . 24+	SPC.I	-	S165	021SS-38	6		PSW-A6	CVVUCR	33	211121 P25	112	
120	SPIRE PSW (5) Ch21-24 . 24-	SPC.I	-	S165	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P25	120	
128	SPIRE PSW (5) Ch21-24 . 24grnd	SPC.I	-	S165	021SS-38	6			CVVUCR	33	211121 P25	128	
-	Faraday Link							Cable P10 Faraday Shd con to Busbar tbc					
047	SPIRE PLW B07 GND WIRE A3	SPX.-	-	S473	010B0-30			Con to Cable from P11 GND/Shds	CVVUCR	33	211121 P25	047	



# Pin Allocation List

(Harness)

**Connector:** 312200 J04  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 07)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal										
090	SPIRE PSW (6) Ch25-28 . 25+	SPC.I	-	S167	021SS-38	7		PSW-G5	CVVUCR	33	211121 P25	090	
079	SPIRE PSW (6) Ch25-28 . 25-	SPC.I	-	S167	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	079	
128	SPIRE PSW (6) Ch25-28 . 25gnd	SPC.I	-	S167	021SS-38	7			CVVUCR	33	211121 P25	128	3.
102	SPIRE PSW (6) Ch25-28 . 26+	SPC.I	-	S167	021SS-38	7		PSW-H6	CVVUCR	33	211121 P25	102	
101	SPIRE PSW (6) Ch25-28 . 26-	SPC.I	-	S167	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	101	
128	SPIRE PSW (6) Ch25-28 . 26gnd	SPC.I	-	S167	021SS-38	7			CVVUCR	33	211121 P25	128	3.
092	SPIRE PSW (6) Ch25-28 . 27+	SPC.I	-	S167	021SS-38	7		PSW-J6	CVVUCR	33	211121 P25	092	
091	SPIRE PSW (6) Ch25-28 . 27-	SPC.I	-	S167	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	091	
128	SPIRE PSW (6) Ch25-28 . 27gnd	SPC.I	-	S167	021SS-38	7			CVVUCR	33	211121 P25	128	3.
103	SPIRE PSW (6) Ch25-28 . 28+	SPC.I	-	S167	021SS-38	7		PSW-F6	CVVUCR	33	211121 P25	103	
113	SPIRE PSW (6) Ch25-28 . 28-	SPC.I	-	S167	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	113	
128	SPIRE PSW (6) Ch25-28 . 28gnd	SPC.I	-	S167	021SS-38	7			CVVUCR	33	211121 P25	128	3.
058	SPIRE PSW (6) Ch29-32 . 29+	SPC.I	-	S168	021SS-38	8		PSW-G6	CVVUCR	33	211121 P25	058	
046	SPIRE PSW (6) Ch29-32 . 29-	SPC.I	-	S168	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	046	
128	SPIRE PSW (6) Ch29-32 . 29gnd	SPC.I	-	S168	021SS-38	8			CVVUCR	33	211121 P25	128	3.
068	SPIRE PSW (6) Ch29-32 . 30+	SPC.I	-	S168	021SS-38	8		PSW-H7	CVVUCR	33	211121 P25	068	
057	SPIRE PSW (6) Ch29-32 . 30-	SPC.I	-	S168	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	057	
128	SPIRE PSW (6) Ch29-32 . 30gnd	SPC.I	-	S168	021SS-38	8			CVVUCR	33	211121 P25	128	3.
069	SPIRE PSW (6) Ch29-32 . 31+	SPC.I	-	S168	021SS-38	8		PSW-F7	CVVUCR	33	211121 P25	069	
080	SPIRE PSW (6) Ch29-32 . 31-	SPC.I	-	S168	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	080	
128	SPIRE PSW (6) Ch29-32 . 31gnd	SPC.I	-	S168	021SS-38	8			CVVUCR	33	211121 P25	128	3.
070	SPIRE PSW (6) Ch29-32 . 32+	SPC.I	-	S168	021SS-38	8		PSW-J7	CVVUCR	33	211121 P25	070	
081	SPIRE PSW (6) Ch29-32 . 32-	SPC.I	-	S168	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	081	
128	SPIRE PSW (6) Ch29-32 . 32gnd	SPC.I	-	S168	021SS-38	8			CVVUCR	33	211121 P25	128	3.
023	SPIRE PSW (6) Ch33-36 . 33+	SPC.I	-	S169	021SS-38	9		PSW-G7	CVVUCR	33	211121 P25	023	
034	SPIRE PSW (6) Ch33-36 . 33-	SPC.I	-	S169	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	034	
004	SPIRE PSW (6) Ch33-36 . 33gnd	SPC.I	-	S169	021SS-38	9			CVVUCR	33	211121 P25	004	3.
033	SPIRE PSW (6) Ch33-36 . 34+	SPC.I	-	S169	021SS-38	9		PSW-H8	CVVUCR	33	211121 P25	033	

# Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List

(Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 312200 J04  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 07)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
045	SPIRE PSW (6) Ch33-36 . 34-	SPC.I -	S169	021SS-38	9			CVVUCR	33	211121 P25	045	
004	SPIRE PSW (6) Ch33-36 . 34grnd	SPC.I -	S169	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	004	3.
044	SPIRE PSW (6) Ch33-36 . 35+	SPC.I -	S169	021SS-38	9		PSW-F8	CVVUCR	33	211121 P25	044	
056	SPIRE PSW (6) Ch33-36 . 35-	SPC.I -	S169	021SS-38	9			CVVUCR	33	211121 P25	056	
004	SPIRE PSW (6) Ch33-36 . 35grnd	SPC.I -	S169	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	004	3.
022	SPIRE PSW (6) Ch33-36 . 36+	SPC.I -	S169	021SS-38	9		PSW-G8	CVVUCR	33	211121 P25	022	
032	SPIRE PSW (6) Ch33-36 . 36-	SPC.I -	S169	021SS-38	9			CVVUCR	33	211121 P25	032	
004	SPIRE PSW (6) Ch33-36 . 36grnd	SPC.I -	S169	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P25	004	3.
-	Faraday Link						Cable P11 Faraday Shd con to Busbar tbc					
004	SPIRE PLW B07 GND WIRE A4	SPX.-	S474	010B0-30			Con to Cable from P12 GND/Shds	CVVUCR	33	211121 P25	004	
013	SPIRE PSW (6) Ch37-40 . 37+	SPC.I -	S172	021SS-38	10		PSW-J8	CVVUCR	33	211121 P25	013	
012	SPIRE PSW (6) Ch37-40 . 37-	SPC.I -	S172	021SS-38	10			CVVUCR	33	211121 P25	012	
004	SPIRE PSW (6) Ch37-40 . 37grnd	SPC.I -	S172	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P25	004	
021	SPIRE PSW (6) Ch37-40 . 38+	SPC.I -	S172	021SS-38	10		PSW-F9	CVVUCR	33	211121 P25	021	
020	SPIRE PSW (6) Ch37-40 . 38-	SPC.I -	S172	021SS-38	10			CVVUCR	33	211121 P25	020	
004	SPIRE PSW (6) Ch37-40 . 38grnd	SPC.I -	S172	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P25	004	
031	SPIRE PSW (6) Ch37-40 . 39+	SPC.I -	S172	021SS-38	10		PSW-H9	CVVUCR	33	211121 P25	031	
043	SPIRE PSW (6) Ch37-40 . 39-	SPC.I -	S172	021SS-38	10			CVVUCR	33	211121 P25	043	
004	SPIRE PSW (6) Ch37-40 . 39grnd	SPC.I -	S172	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P25	004	
042	SPIRE PSW (6) Ch37-40 . 40+	SPC.I -	S172	021SS-38	10		PSW-G9	CVVUCR	33	211121 P25	042	
054	SPIRE PSW (6) Ch37-40 . 40-	SPC.I -	S172	021SS-38	10			CVVUCR	33	211121 P25	054	
004	SPIRE PSW (6) Ch37-40 . 40grnd	SPC.I -	S172	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P25	004	
010	SPIRE PSW (6) Ch41-44 . 41+	SPC.I -	S173	021SS-38	11		PSW-J9	CVVUCR	33	211121 P25	010	
011	SPIRE PSW (6) Ch41-44 . 41-	SPC.I -	S173	021SS-38	11			CVVUCR	33	211121 P25	011	
004	SPIRE PSW (6) Ch41-44 . 41grnd	SPC.I -	S173	021SS-38	11		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P25	004	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 312200 J04  
**Item:** HSSVMCB2  
**EMC-Category:** 2i/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 07)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
019	SPIRE PSW (6) Ch41-44 . 42+	SPC.I	-	S173	021SS-38	11		PSW-F10	CVUUCR	33	211121 P25	019	
029	SPIRE PSW (6) Ch41-44 . 42-	SPC.I	-	S173	021SS-38	11			CVUUCR	33	211121 P25	029	
004	SPIRE PSW (6) Ch41-44 . 42grnd	SPC.I	-	S173	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P25	004	
041	SPIRE PSW (6) Ch41-44 . 43+	SPC.I	-	S173	021SS-38	11		PSW-H10	CVUUCR	33	211121 P25	041	
030	SPIRE PSW (6) Ch41-44 . 43-	SPC.I	-	S173	021SS-38	11			CVUUCR	33	211121 P25	030	
004	SPIRE PSW (6) Ch41-44 . 43grnd	SPC.I	-	S173	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P25	004	
053	SPIRE PSW (6) Ch41-44 . 44+	SPC.I	-	S173	021SS-38	11		PSW-G10	CVUUCR	33	211121 P25	053	
052	SPIRE PSW (6) Ch41-44 . 44-	SPC.I	-	S173	021SS-38	11			CVUUCR	33	211121 P25	052	
004	SPIRE PSW (6) Ch41-44 . 44grnd	SPC.I	-	S173	021SS-38	11		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P25	004	
009	SPIRE PSW (6) Ch45-48 . 45+	SPC.I	-	S174	021SS-38	12		PSW-F11	CVUUCR	33	211121 P25	009	
017	SPIRE PSW (6) Ch45-48 . 45-	SPC.I	-	S174	021SS-38	12			CVUUCR	33	211121 P25	017	
004	SPIRE PSW (6) Ch45-48 . 45grnd	SPC.I	-	S174	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P25	004	
018	SPIRE PSW (6) Ch45-48 . 46+	SPC.I	-	S174	021SS-38	12		PSW-J10	CVUUCR	33	211121 P25	018	
028	SPIRE PSW (6) Ch45-48 . 46-	SPC.I	-	S174	021SS-38	12			CVUUCR	33	211121 P25	028	
004	SPIRE PSW (6) Ch45-48 . 46grnd	SPC.I	-	S174	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P25	004	
016	SPIRE PSW (6) Ch45-48 . 47+	SPC.I	-	S174	021SS-38	12		PSW-H11	CVUUCR	33	211121 P25	016	
027	SPIRE PSW (6) Ch45-48 . 47-	SPC.I	-	S174	021SS-38	12			CVUUCR	33	211121 P25	027	
004	SPIRE PSW (6) Ch45-48 . 47grnd	SPC.I	-	S174	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P25	004	
040	SPIRE PSW (6) Ch45-48 . 48+	SPC.I	-	S174	021SS-38	12		PSW-G11	CVUUCR	33	211121 P25	040	
039	SPIRE PSW (6) Ch45-48 . 48-	SPC.I	-	S174	021SS-38	12			CVUUCR	33	211121 P25	039	
004	SPIRE PSW (6) Ch45-48 . 48grnd	SPC.I	-	S174	021SS-38	12		Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P25	004	
-	Faraday Link							Cable from P12 Faraday Shd con to Busbar tbc					
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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Connector: 312200 J04

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 07)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
005	Faraday Pins							Connected to Busbar ECR0039tbc					
006	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					
015	Faraday Pins							Connected to Busbar ECR0039tbc					
024	Faraday Pins							Connected to Busbar ECR0039tbc					
025	Faraday Pins							Connected to Busbar ECR0039tbc					
035	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
093	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
104	Faraday Pins							Connected to Busbar ECR0039tbc					
105	Faraday Pins							Connected to Busbar ECR0039tbc					
114	Faraday Pins							Connected to Busbar ECR0039tbc					
115	Faraday Pins							Connected to Busbar ECR0039tbc					
121	Faraday Pins							Connected to Busbar ECR0039tbc					
122	Faraday Pins							Connected to Busbar ECR0039tbc					
123	Faraday Pins							Connected to Busbar ECR0039tbc					
124	Faraday Pins							Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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Connector: 312200 J04

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 07)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	Connector Housing							Ch isolated from Faraday Shds					
-	Insulating Jacket							Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd							Overall Shd con to Backshell					



# Pin Allocation List (Harness)

**Connector:** 312200 J01  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 08)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PLW B08 GND WIRE A1	SPX.-	-	S481	010B0-30			Con to Cable from P05 GND/Shds	CVVUCR	33	211121 P27	036	
026	SPIRE PSW (3) Ch01-04 . 1+	SPC.I	-	S140	021SS-38	1		PSW-D6	CVVUCR	33	211121 P27	026	
037	SPIRE PSW (3) Ch01-04 . 1-	SPC.I	-	S140	021SS-38	1			CVVUCR	33	211121 P27	037	
036	SPIRE PSW (3) Ch01-04 . 1gnd	SPC.I	-	S140	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P27	036	
038	SPIRE PSW (3) Ch01-04 . 2+	SPC.I	-	S140	021SS-38	1		PSW-B6	CVVUCR	33	211121 P27	038	
049	SPIRE PSW (3) Ch01-04 . 2-	SPC.I	-	S140	021SS-38	1			CVVUCR	33	211121 P27	049	
036	SPIRE PSW (3) Ch01-04 . 2gnd	SPC.I	-	S140	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P27	036	
048	SPIRE PSW (3) Ch01-04 . 3+	SPC.I	-	S140	021SS-38	1		PSW-C5	CVVUCR	33	211121 P27	048	
060	SPIRE PSW (3) Ch01-04 . 3-	SPC.I	-	S140	021SS-38	1			CVVUCR	33	211121 P27	060	
036	SPIRE PSW (3) Ch01-04 . 3gnd	SPC.I	-	S140	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P27	036	
059	SPIRE PSW (3) Ch01-04 . 4+	SPC.I	-	S140	021SS-38	1		PSW-A5	CVVUCR	33	211121 P27	059	
071	SPIRE PSW (3) Ch01-04 . 4-	SPC.I	-	S140	021SS-38	1			CVVUCR	33	211121 P27	071	
036	SPIRE PSW (3) Ch01-04 . 4gnd	SPC.I	-	S140	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P27	036	
050	SPIRE PSW (3) Ch05-08 . 5+	SPC.I	-	S141	021SS-38	2		PSW-E5	CVVUCR	33	211121 P27	050	
061	SPIRE PSW (3) Ch05-08 . 5-	SPC.I	-	S141	021SS-38	2			CVVUCR	33	211121 P27	061	
036	SPIRE PSW (3) Ch05-08 . 5gnd	SPC.I	-	S141	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P27	036	
062	SPIRE PSW (3) Ch05-08 . 6+	SPC.I	-	S141	021SS-38	2		PSW-B5	CVVUCR	33	211121 P27	062	
051	SPIRE PSW (3) Ch05-08 . 6-	SPC.I	-	S141	021SS-38	2			CVVUCR	33	211121 P27	051	
036	SPIRE PSW (3) Ch05-08 . 6gnd	SPC.I	-	S141	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P27	036	
063	SPIRE PSW (3) Ch05-08 . 7+	SPC.I	-	S141	021SS-38	2		PSW-D5	CVVUCR	33	211121 P27	063	
075	SPIRE PSW (3) Ch05-08 . 7-	SPC.I	-	S141	021SS-38	2			CVVUCR	33	211121 P27	075	
036	SPIRE PSW (3) Ch05-08 . 7gnd	SPC.I	-	S141	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P27	036	
074	SPIRE PSW (3) Ch05-08 . 8+	SPC.I	-	S141	021SS-38	2		PSW-C4	CVVUCR	33	211121 P27	074	
073	SPIRE PSW (3) Ch05-08 . 8-	SPC.I	-	S141	021SS-38	2			CVVUCR	33	211121 P27	073	
036	SPIRE PSW (3) Ch05-08 . 8gnd	SPC.I	-	S141	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P27	036	
083	SPIRE PSW (3) Ch09-12 . 9+	SPC.I	-	S142	021SS-38	3		PSW-A4	CVVUCR	33	211121 P27	083	
072	SPIRE PSW (3) Ch09-12 . 9-	SPC.I	-	S142	021SS-38	3			CVVUCR	33	211121 P27	072	

# Pin Allocation List (Harness)

**Connector:** 312200 J01  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 08)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
036	SPIRE PSW (3) Ch09-12 . 9gnd	SPC.I	-	S142	021SS-38	3		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P27	036	
095	SPIRE PSW (3) Ch09-12 . 10+	SPC.I	-	S142	021SS-38	3		PSW-D4	CVUUCR	33	211121 P27	095	
084	SPIRE PSW (3) Ch09-12 . 10-	SPC.I	-	S142	021SS-38	3			CVUUCR	33	211121 P27	084	
036	SPIRE PSW (3) Ch09-12 . 10gnd	SPC.I	-	S142	021SS-38	3		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P27	036	
096	SPIRE PSW (3) Ch09-12 . 11+	SPC.I	-	S142	021SS-38	3		PSW-B4	CVUUCR	33	211121 P27	096	
085	SPIRE PSW (3) Ch09-12 . 11-	SPC.I	-	S142	021SS-38	3			CVUUCR	33	211121 P27	085	
036	SPIRE PSW (3) Ch09-12 . 11gnd	SPC.I	-	S142	021SS-38	3		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P27	036	
106	SPIRE PSW (3) Ch09-12 . 12+	SPC.I	-	S142	021SS-38	3		PSW-C3	CVUUCR	33	211121 P27	106	
107	SPIRE PSW (3) Ch09-12 . 12-	SPC.I	-	S142	021SS-38	3			CVUUCR	33	211121 P27	107	
036	SPIRE PSW (3) Ch09-12 . 12gnd	SPC.I	-	S142	021SS-38	3		Daisy ch to Pin 36 (A1)	CVUUCR	33	211121 P27	036	
-	Faraday Link							Cable P05 Faraday Shd con to Busbar tbc					
128	SPIRE PLW B08 GND WIRE A2	SPX.-	-	S482	010B0-30			Con to Cable from P06 GND/Shds	CVUUCR	33	211121 P27	128	
086	SPIRE PSW (3) Ch13-16 . 13+	SPC.I	-	S145	021SS-38	4		PSW-B3	CVUUCR	33	211121 P27	086	
087	SPIRE PSW (3) Ch13-16 . 13-	SPC.I	-	S145	021SS-38	4			CVUUCR	33	211121 P27	087	
036	SPIRE PSW (3) Ch13-16 . 13gnd	SPC.I	-	S145	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	036	3.
097	SPIRE PSW (3) Ch13-16 . 14+	SPC.I	-	S145	021SS-38	4		PSW-A3	CVUUCR	33	211121 P27	097	
098	SPIRE PSW (3) Ch13-16 . 14-	SPC.I	-	S145	021SS-38	4			CVUUCR	33	211121 P27	098	
036	SPIRE PSW (3) Ch13-16 . 14gnd	SPC.I	-	S145	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	036	3.
108	SPIRE PSW (3) Ch13-16 . 15+	SPC.I	-	S145	021SS-38	4		PSW-A2	CVUUCR	33	211121 P27	108	
109	SPIRE PSW (3) Ch13-16 . 15-	SPC.I	-	S145	021SS-38	4			CVUUCR	33	211121 P27	109	
036	SPIRE PSW (3) Ch13-16 . 15gnd	SPC.I	-	S145	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	036	3.
116	SPIRE PSW (3) Ch13-16 . 16+	SPC.I	-	S145	021SS-38	4		PSW-D3	CVUUCR	33	211121 P27	116	
117	SPIRE PSW (3) Ch13-16 . 16-	SPC.I	-	S145	021SS-38	4			CVUUCR	33	211121 P27	117	
036	SPIRE PSW (3) Ch13-16 . 16gnd	SPC.I	-	S145	021SS-38	4		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	036	3.
055	SPIRE PSW (3) Ch17-20 . 17+	SPC.I	-	S146	021SS-38	5		PSW-C2	CVUUCR	33	211121 P27	055	



# Pin Allocation List (Harness)

**Connector:** 312200 J01  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 08)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
066	SPIRE PSW (3) Ch17-20 . 17-	SPC.I	-	S146	021SS-38	5		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	066	
128	SPIRE PSW (3) Ch17-20 . 17grnd	SPC.I	-	S146	021SS-38	5			CVUUCR	33	211121 P27	128	
067	SPIRE PSW (3) Ch17-20 . 18+	SPC.I	-	S146	021SS-38	5		PSW-B2	CVUUCR	33	211121 P27	067	
078	SPIRE PSW (3) Ch17-20 . 18-	SPC.I	-	S146	021SS-38	5		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	078	
128	SPIRE PSW (3) Ch17-20 . 18grnd	SPC.I	-	S146	021SS-38	5			CVUUCR	33	211121 P27	128	
076	SPIRE PSW (3) Ch17-20 . 19+	SPC.I	-	S146	021SS-38	5		PSW-D2	CVUUCR	33	211121 P27	076	
077	SPIRE PSW (3) Ch17-20 . 19-	SPC.I	-	S146	021SS-38	5		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	077	
128	SPIRE PSW (3) Ch17-20 . 19grnd	SPC.I	-	S146	021SS-38	5			CVUUCR	33	211121 P27	128	
088	SPIRE PSW (3) Ch17-20 . 20+	SPC.I	-	S146	021SS-38	5		PSW-A1	CVUUCR	33	211121 P27	088	
089	SPIRE PSW (3) Ch17-20 . 20-	SPC.I	-	S146	021SS-38	5		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	089	
128	SPIRE PSW (3) Ch17-20 . 20grnd	SPC.I	-	S146	021SS-38	5			CVUUCR	33	211121 P27	128	
099	SPIRE PSW (3) Ch21-24 . 21+	SPC.I	-	S147	021SS-38	6		PSW-C1	CVUUCR	33	211121 P27	099	
100	SPIRE PSW (3) Ch21-24 . 21-	SPC.I	-	S147	021SS-38	6		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	100	
128	SPIRE PSW (3) Ch21-24 . 21grnd	SPC.I	-	S147	021SS-38	6			CVUUCR	33	211121 P27	128	
110	SPIRE PSW (3) Ch21-24 . 22+	SPC.I	-	S147	021SS-38	6		PSW-B1	CVUUCR	33	211121 P27	110	
111	SPIRE PSW (3) Ch21-24 . 22-	SPC.I	-	S147	021SS-38	6		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	111	
128	SPIRE PSW (3) Ch21-24 . 22grnd	SPC.I	-	S147	021SS-38	6			CVUUCR	33	211121 P27	128	
118	SPIRE PSW (3) Ch21-24 . 23+	SPC.I	-	S147	021SS-38	6		PSW-DK1	CVUUCR	33	211121 P27	118	
119	SPIRE PSW (3) Ch21-24 . 23-	SPC.I	-	S147	021SS-38	6		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	119	
128	SPIRE PSW (3) Ch21-24 . 23grnd	SPC.I	-	S147	021SS-38	6			CVUUCR	33	211121 P27	128	
112	SPIRE PSW (3) Ch21-24 . 24+	SPC.I	-	S147	021SS-38	6		PSW-D1	CVUUCR	33	211121 P27	112	
120	SPIRE PSW (3) Ch21-24 . 24-	SPC.I	-	S147	021SS-38	6		Daisy ch to Pin 128 (A2)	CVUUCR	33	211121 P27	120	
128	SPIRE PSW (3) Ch21-24 . 24grnd	SPC.I	-	S147	021SS-38	6			CVUUCR	33	211121 P27	128	
-	Faraday Link							Cable P06 Faraday Shd con to Busbar tbc					
047	SPIRE PLW B08 GND WIRE A3	SPX.-	-	S483	010B0-30			Con to Cable from P07 GND/Shds	CVUUCR	33	211121 P27	047	

**Pin Allocation List**  
(Harness)

Doc.No.: HP-2-ASED-IC-0016

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**Connector:** 312200 J01**Item:** HSSVMCB2**EMC-Category:** 2/ISig H fr CWVFT to SVMCB**Function:** SPIRE SVM CB2 (SPIRE Bundle 08)**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)**Conn.-Type:** SCC340104401B032435P**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
090	SPIRE PSW (4) Ch25-28 . 25+	SPC.I	-	S149	021SS-38	7				PSW-F12	CVVUCR	33	211121 P27	090	
079	SPIRE PSW (4) Ch25-28 . 25-	SPC.I	-	S149	021SS-38	7				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	079	
128	SPIRE PSW (4) Ch25-28 . 25gnd	SPC.I	-	S149	021SS-38	7					CVVUCR	33	211121 P27	128	3.
102	SPIRE PSW (4) Ch25-28 . 26+	SPC.I	-	S149	021SS-38	7				PSW-J11	CVVUCR	33	211121 P27	102	
101	SPIRE PSW (4) Ch25-28 . 26-	SPC.I	-	S149	021SS-38	7				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	101	
128	SPIRE PSW (4) Ch25-28 . 26gnd	SPC.I	-	S149	021SS-38	7					CVVUCR	33	211121 P27	128	3.
092	SPIRE PSW (4) Ch25-28 . 27+	SPC.I	-	S149	021SS-38	7				PSW-E12	CVVUCR	33	211121 P27	092	
091	SPIRE PSW (4) Ch25-28 . 27-	SPC.I	-	S149	021SS-38	7				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	091	
128	SPIRE PSW (4) Ch25-28 . 27gnd	SPC.I	-	S149	021SS-38	7					CVVUCR	33	211121 P27	128	3.
103	SPIRE PSW (4) Ch25-28 . 28+	SPC.I	-	S149	021SS-38	7				PSW-H12	CVVUCR	33	211121 P27	103	
113	SPIRE PSW (4) Ch25-28 . 28-	SPC.I	-	S149	021SS-38	7				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	113	
128	SPIRE PSW (4) Ch25-28 . 28gnd	SPC.I	-	S149	021SS-38	7					CVVUCR	33	211121 P27	128	3.
058	SPIRE PSW (4) Ch29-32 . 29+	SPC.I	-	S150	021SS-38	8				PSW-G12	CVVUCR	33	211121 P27	058	
046	SPIRE PSW (4) Ch29-32 . 29-	SPC.I	-	S150	021SS-38	8				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	046	
128	SPIRE PSW (4) Ch29-32 . 29gnd	SPC.I	-	S150	021SS-38	8					CVVUCR	33	211121 P27	128	3.
068	SPIRE PSW (4) Ch29-32 . 30+	SPC.I	-	S150	021SS-38	8				PSW-F13	CVVUCR	33	211121 P27	068	
057	SPIRE PSW (4) Ch29-32 . 30-	SPC.I	-	S150	021SS-38	8				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	057	
128	SPIRE PSW (4) Ch29-32 . 30gnd	SPC.I	-	S150	021SS-38	8					CVVUCR	33	211121 P27	128	3.
069	SPIRE PSW (4) Ch29-32 . 31+	SPC.I	-	S150	021SS-38	8				PSW-E13	CVVUCR	33	211121 P27	069	
080	SPIRE PSW (4) Ch29-32 . 31-	SPC.I	-	S150	021SS-38	8				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	080	
128	SPIRE PSW (4) Ch29-32 . 31gnd	SPC.I	-	S150	021SS-38	8					CVVUCR	33	211121 P27	128	3.
070	SPIRE PSW (4) Ch29-32 . 32+	SPC.I	-	S150	021SS-38	8				PSW-J12	CVVUCR	33	211121 P27	070	
081	SPIRE PSW (4) Ch29-32 . 32-	SPC.I	-	S150	021SS-38	8				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	081	
128	SPIRE PSW (4) Ch29-32 . 32gnd	SPC.I	-	S150	021SS-38	8					CVVUCR	33	211121 P27	128	3.
023	SPIRE PSW (4) Ch33-36 . 33+	SPC.I	-	S151	021SS-38	9				PSW-H13	CVVUCR	33	211121 P27	023	
034	SPIRE PSW (4) Ch33-36 . 33-	SPC.I	-	S151	021SS-38	9				Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	034	
004	SPIRE PSW (4) Ch33-36 . 33gnd	SPC.I	-	S151	021SS-38	9					CVVUCR	33	211121 P27	004	3.
033	SPIRE PSW (4) Ch33-36 . 34+	SPC.I	-	S151	021SS-38	9				PSW-G13	CVVUCR	33	211121 P27	033	

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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Connector: 312200 J01

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 08)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
045	SPIRE PSW (4) Ch33-36 . 34-	SPC.I	-	S151	021SS-38	9			CVVUCR	33	211121 P27	045	
004	SPIRE PSW (4) Ch33-36 . 34grnd	SPC.I	-	S151	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	004	3.
044	SPIRE PSW (4) Ch33-36 . 35+	SPC.I	-	S151	021SS-38	9		PSW-F14	CVVUCR	33	211121 P27	044	
056	SPIRE PSW (4) Ch33-36 . 35-	SPC.I	-	S151	021SS-38	9			CVVUCR	33	211121 P27	056	
004	SPIRE PSW (4) Ch33-36 . 35grnd	SPC.I	-	S151	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	004	3.
022	SPIRE PSW (4) Ch33-36 . 36+	SPC.I	-	S151	021SS-38	9		PSW-E14	CVVUCR	33	211121 P27	022	
032	SPIRE PSW (4) Ch33-36 . 36-	SPC.I	-	S151	021SS-38	9			CVVUCR	33	211121 P27	032	
004	SPIRE PSW (4) Ch33-36 . 36grnd	SPC.I	-	S151	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P27	004	3.
-	Faraday Link							Cable P07 Faraday Shd con to Busbar tbc					
004	SPIRE PLW B08 GND WIRE A4	SPX.-	-	S484	010B0-30			Con to Cable from P08 GND/Shds	CVVUCR	33	211121 P27	004	
013	SPIRE PSW (4) Ch37-40 . 37+	SPC.I	-	S154	021SS-38	10		PSW-J13	CVVUCR	33	211121 P27	013	
012	SPIRE PSW (4) Ch37-40 . 37-	SPC.I	-	S154	021SS-38	10			CVVUCR	33	211121 P27	012	
004	SPIRE PSW (4) Ch37-40 . 37grnd	SPC.I	-	S154	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	004	
021	SPIRE PSW (4) Ch37-40 . 38+	SPC.I	-	S154	021SS-38	10		PSW-H14	CVVUCR	33	211121 P27	021	
020	SPIRE PSW (4) Ch37-40 . 38-	SPC.I	-	S154	021SS-38	10			CVVUCR	33	211121 P27	020	
004	SPIRE PSW (4) Ch37-40 . 38grnd	SPC.I	-	S154	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	004	
031	SPIRE PSW (4) Ch37-40 . 39+	SPC.I	-	S154	021SS-38	10		PSW-G14	CVVUCR	33	211121 P27	031	
043	SPIRE PSW (4) Ch37-40 . 39-	SPC.I	-	S154	021SS-38	10			CVVUCR	33	211121 P27	043	
004	SPIRE PSW (4) Ch37-40 . 39grnd	SPC.I	-	S154	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	004	
042	SPIRE PSW (4) Ch37-40 . 40+	SPC.I	-	S154	021SS-38	10		PSW-J14	CVVUCR	33	211121 P27	042	
054	SPIRE PSW (4) Ch37-40 . 40-	SPC.I	-	S154	021SS-38	10			CVVUCR	33	211121 P27	054	
004	SPIRE PSW (4) Ch37-40 . 40grnd	SPC.I	-	S154	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	004	
010	SPIRE PSW (4) Ch41-44 . 41+	SPC.I	-	S155	021SS-38	11		PSW-F15	CVVUCR	33	211121 P27	010	
011	SPIRE PSW (4) Ch41-44 . 41-	SPC.I	-	S155	021SS-38	11			CVVUCR	33	211121 P27	011	
004	SPIRE PSW (4) Ch41-44 . 41grnd	SPC.I	-	S155	021SS-38	11		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	004	

# Pin Allocation List

(Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Project: **HERSCHEL**

**Connector:** 312200 J01

**Item:** HSSVMCB2

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 08)

**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P

**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal												
019	SPIRE PSW (4) Ch41-44 . 42+	SPC.I	-	S155	021SS-38	11				PSW-H15	CVVUCR	33	211121 P27	019	
029	SPIRE PSW (4) Ch41-44 . 42-	SPC.I	-	S155	021SS-38	11				Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	029	
004	SPIRE PSW (4) Ch41-44 . 42gnd	SPC.I	-	S155	021SS-38	11					CVVUCR	33	211121 P27	004	
041	SPIRE PSW (4) Ch41-44 . 43+	SPC.I	-	S155	021SS-38	11				PSW-J15	CVVUCR	33	211121 P27	041	
030	SPIRE PSW (4) Ch41-44 . 43-	SPC.I	-	S155	021SS-38	11				Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	030	
004	SPIRE PSW (4) Ch41-44 . 43gnd	SPC.I	-	S155	021SS-38	11					CVVUCR	33	211121 P27	004	
053	SPIRE PSW (4) Ch41-44 . 44+	SPC.I	-	S155	021SS-38	11				PSW-G15	CVVUCR	33	211121 P27	053	
052	SPIRE PSW (4) Ch41-44 . 44-	SPC.I	-	S155	021SS-38	11				Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	052	
004	SPIRE PSW (4) Ch41-44 . 44gnd	SPC.I	-	S155	021SS-38	11					CVVUCR	33	211121 P27	004	
009	SPIRE PSW (4) Ch45-48 . 45+	SPC.I	-	S156	021SS-38	12				PSW-H16	CVVUCR	33	211121 P27	009	
017	SPIRE PSW (4) Ch45-48 . 45-	SPC.I	-	S156	021SS-38	12				Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	017	
004	SPIRE PSW (4) Ch45-48 . 45gnd	SPC.I	-	S156	021SS-38	12					CVVUCR	33	211121 P27	004	
018	SPIRE PSW (4) Ch45-48 . 46+	SPC.I	-	S156	021SS-38	12				PSW-DK2	CVVUCR	33	211121 P27	018	
028	SPIRE PSW (4) Ch45-48 . 46-	SPC.I	-	S156	021SS-38	12				Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	028	
004	SPIRE PSW (4) Ch45-48 . 46gnd	SPC.I	-	S156	021SS-38	12					CVVUCR	33	211121 P27	004	
016	SPIRE PSW (4) Ch45-48 . 47+	SPC.I	-	S156	021SS-38	12				PSW-F16	CVVUCR	33	211121 P27	016	
027	SPIRE PSW (4) Ch45-48 . 47-	SPC.I	-	S156	021SS-38	12				Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	027	
004	SPIRE PSW (4) Ch45-48 . 47gnd	SPC.I	-	S156	021SS-38	12					CVVUCR	33	211121 P27	004	
040	SPIRE PSW (4) Ch45-48 . 48+	SPC.I	-	S156	021SS-38	12				PSW-E15	CVVUCR	33	211121 P27	040	
039	SPIRE PSW (4) Ch45-48 . 48-	SPC.I	-	S156	021SS-38	12				Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P27	039	
004	SPIRE PSW (4) Ch45-48 . 48gnd	SPC.I	-	S156	021SS-38	12					CVVUCR	33	211121 P27	004	
-	Faraday Link									Cable from P08 Faraday Shd con to Busbar					
001	Faraday Pins									Connected to Busbar					
002	Faraday Pins									ECR0039tbc					
003	Faraday Pins									Connected to Busbar					
										ECR0039tbc					
										Connected to Busbar					
										ECR0039tbc					
										Connected to Busbar					
										ECR0039tbc					

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Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 312200 J01

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 08)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
005	Faraday Pins								Connected to Busbar ECR0039tbc					
006	Faraday Pins								Connected to Busbar ECR0039tbc					
007	Faraday Pins								Connected to Busbar ECR0039tbc					
008	Faraday Pins								Connected to Busbar ECR0039tbc					
014	Faraday Pins								Connected to Busbar ECR0039tbc					
015	Faraday Pins								Connected to Busbar ECR0039tbc					
024	Faraday Pins								Connected to Busbar ECR0039tbc					
025	Faraday Pins								Connected to Busbar ECR0039tbc					
035	Faraday Pins								Connected to Busbar ECR0039tbc					
082	Faraday Pins								Connected to Busbar ECR0039tbc					
093	Faraday Pins								Connected to Busbar ECR0039tbc					
094	Faraday Pins								Connected to Busbar ECR0039tbc					
104	Faraday Pins								Connected to Busbar ECR0039tbc					
105	Faraday Pins								Connected to Busbar ECR0039tbc					
114	Faraday Pins								Connected to Busbar ECR0039tbc					
115	Faraday Pins								Connected to Busbar ECR0039tbc					
121	Faraday Pins								Connected to Busbar ECR0039tbc					
122	Faraday Pins								Connected to Busbar ECR0039tbc					
123	Faraday Pins								Connected to Busbar ECR0039tbc					
124	Faraday Pins								Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
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**Connector:** 312200 J01  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 08)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	Connector Housing Insulating Jacket							CH isolated from Faraday Shds Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd							Bundle Overall Shd con to Backshell					



# Astrium GmbH

Project: **HERSCHEL**

For wiring schematic  
see SIH-1S-09; CVVUCR P28

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 8)

Connector: 312200 J02  
Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 09)  
Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P  
Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
036	SPIRE PLW B09 GND WIRE A1	SPX.- -	S491	010B0-30			Con to Cable from P01 GND/Shds	CVVUCR	33	211121 P28	036	
026	SPIRE PSW Ch01-04 . 1+	SPC.I -	S122	021SS-38	1		PSW-R1	CVVUCR	33	211121 P28	026	
037	SPIRE PSW Ch01-04 . 1-	SPC.I -	S122	021SS-38	1			CVVUCR	33	211121 P28	037	
036	SPIRE PSW Ch01-04 . 1gnd	SPC.I -	S122	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
038	SPIRE PSW Ch01-04 . 2+	SPC.I -	S122	021SS-38	1		PSW-D16	CVVUCR	33	211121 P28	038	
049	SPIRE PSW Ch01-04 . 2-	SPC.I -	S122	021SS-38	1			CVVUCR	33	211121 P28	049	
036	SPIRE PSW Ch01-04 . 2gnd	SPC.I -	S122	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
048	SPIRE PSW Ch01-04 . 3+	SPC.I -	S122	021SS-38	1		PSW-T1	CVVUCR	33	211121 P28	048	
060	SPIRE PSW Ch01-04 . 3-	SPC.I -	S122	021SS-38	1			CVVUCR	33	211121 P28	060	
036	SPIRE PSW Ch01-04 . 3gnd	SPC.I -	S122	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
059	SPIRE PSW Ch01-04 . 4+	SPC.I -	S122	021SS-38	1		PSW-B16	CVVUCR	33	211121 P28	059	
071	SPIRE PSW Ch01-04 . 4-	SPC.I -	S122	021SS-38	1			CVVUCR	33	211121 P28	071	
036	SPIRE PSW Ch01-04 . 4gnd	SPC.I -	S122	021SS-38	1		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
050	SPIRE PSW Ch05-08 . 5+	SPC.I -	S123	021SS-38	2		PSW-C15	CVVUCR	33	211121 P28	050	
061	SPIRE PSW Ch05-08 . 5-	SPC.I -	S123	021SS-38	2			CVVUCR	33	211121 P28	061	
036	SPIRE PSW Ch05-08 . 5gnd	SPC.I -	S123	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
062	SPIRE PSW Ch05-08 . 6+	SPC.I -	S123	021SS-38	2		PSW-A15	CVVUCR	33	211121 P28	062	
051	SPIRE PSW Ch05-08 . 6-	SPC.I -	S123	021SS-38	2			CVVUCR	33	211121 P28	051	
036	SPIRE PSW Ch05-08 . 6gnd	SPC.I -	S123	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
063	SPIRE PSW Ch05-08 . 7+	SPC.I -	S123	021SS-38	2		PSW-D15	CVVUCR	33	211121 P28	063	
075	SPIRE PSW Ch05-08 . 7-	SPC.I -	S123	021SS-38	2			CVVUCR	33	211121 P28	075	
036	SPIRE PSW Ch05-08 . 7gnd	SPC.I -	S123	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
074	SPIRE PSW Ch05-08 . 8+	SPC.I -	S123	021SS-38	2		PSW-B15	CVVUCR	33	211121 P28	074	
073	SPIRE PSW Ch05-08 . 8-	SPC.I -	S123	021SS-38	2			CVVUCR	33	211121 P28	073	
036	SPIRE PSW Ch05-08 . 8gnd	SPC.I -	S123	021SS-38	2		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
083	SPIRE PSW Ch09-12 . 9+	SPC.I -	S124	021SS-38	3		PSW-C14	CVVUCR	33	211121 P28	083	
072	SPIRE PSW Ch09-12 . 9-	SPC.I -	S124	021SS-38	3			CVVUCR	33	211121 P28	072	



**Pin Allocation List**  
(Harness)

**Connector:** 312200 J02  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 09)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.										
036	SPIRE PSW Ch09-12 . 9gnd	SPC.I	-	S124	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
095	SPIRE PSW Ch09-12 . 10+	SPC.I	-	S124	021SS-38	3		PSW-D14	CVVUCR	33	211121 P28	095	
084	SPIRE PSW Ch09-12 . 10-	SPC.I	-	S124	021SS-38	3			CVVUCR	33	211121 P28	084	
036	SPIRE PSW Ch09-12 . 10gnd	SPC.I	-	S124	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
096	SPIRE PSW Ch09-12 . 11+	SPC.I	-	S124	021SS-38	3		PSW-A14	CVVUCR	33	211121 P28	096	
085	SPIRE PSW Ch09-12 . 11-	SPC.I	-	S124	021SS-38	3			CVVUCR	33	211121 P28	085	
036	SPIRE PSW Ch09-12 . 11gnd	SPC.I	-	S124	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
106	SPIRE PSW Ch09-12 . 12+	SPC.I	-	S124	021SS-38	3		PSW-A13	CVVUCR	33	211121 P28	106	
107	SPIRE PSW Ch09-12 . 12-	SPC.I	-	S124	021SS-38	3			CVVUCR	33	211121 P28	107	
036	SPIRE PSW Ch09-12 . 12gnd	SPC.I	-	S124	021SS-38	3		Daisy ch to Pin 36 (A1)	CVVUCR	33	211121 P28	036	
-	Faraday Link							Cable P01 Faraday Shd con to Busbar tbc					
128	SPIRE PLW B09 GND WIRE A2	SPX.-	-	S492	010B0-30.			Con to Cable from P02 GND/Shds	CVVUCR	33	211121 P28	128	
086	SPIRE PSW Ch13-16 . 13+	SPC.I	-	S127	021SS-38	4		PSW-B14	CVVUCR	33	211121 P28	086	
087	SPIRE PSW Ch13-16 . 13-	SPC.I	-	S127	021SS-38	4			CVVUCR	33	211121 P28	087	
036	SPIRE PSW Ch13-16 . 13gnd	SPC.I	-	S127	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	036	3.
097	SPIRE PSW Ch13-16 . 14+	SPC.I	-	S127	021SS-38	4		PSW-C13	CVVUCR	33	211121 P28	097	
098	SPIRE PSW Ch13-16 . 14-	SPC.I	-	S127	021SS-38	4			CVVUCR	33	211121 P28	098	
036	SPIRE PSW Ch13-16 . 14gnd	SPC.I	-	S127	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	036	3.
108	SPIRE PSW Ch13-16 . 15+	SPC.I	-	S127	021SS-38	4		PSW-B13	CVVUCR	33	211121 P28	108	
109	SPIRE PSW Ch13-16 . 15-	SPC.I	-	S127	021SS-38	4			CVVUCR	33	211121 P28	109	
036	SPIRE PSW Ch13-16 . 15gnd	SPC.I	-	S127	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	036	3.
116	SPIRE PSW Ch13-16 . 16+	SPC.I	-	S127	021SS-38	4		PSW-D13	CVVUCR	33	211121 P28	116	
117	SPIRE PSW Ch13-16 . 16-	SPC.I	-	S127	021SS-38	4			CVVUCR	33	211121 P28	117	
036	SPIRE PSW Ch13-16 . 16gnd	SPC.I	-	S127	021SS-38	4		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	036	3.
055	SPIRE PSW Ch17-20 . 17+	SPC.I	-	S128	021SS-38	5		PSW-A12	CVVUCR	33	211121 P28	055	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-3 (of 8)

**Connector:** 312200 J02  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 09)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
066	SPIRE PSW Ch17-20 . 17-	SPC.I -		S128	021SS-38	5			CVVUCR	33	211121 P28	066	
128	SPIRE PSW Ch17-20 . 17gnd	SPC.I -		S128	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	128	
067	SPIRE PSW Ch17-20 . 18+	SPC.I -		S128	021SS-38	5		PSW-C12	CVVUCR	33	211121 P28	067	
078	SPIRE PSW Ch17-20 . 18-	SPC.I -		S128	021SS-38	5			CVVUCR	33	211121 P28	078	
128	SPIRE PSW Ch17-20 . 18gnd	SPC.I -		S128	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	128	
076	SPIRE PSW Ch17-20 . 19+	SPC.I -		S128	021SS-38	5		PSW-D12	CVVUCR	33	211121 P28	076	
077	SPIRE PSW Ch17-20 . 19-	SPC.I -		S128	021SS-38	5			CVVUCR	33	211121 P28	077	
128	SPIRE PSW Ch17-20 . 19gnd	SPC.I -		S128	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	128	
088	SPIRE PSW Ch17-20 . 20+	SPC.I -		S128	021SS-38	5		PSW-B12	CVVUCR	33	211121 P28	088	
089	SPIRE PSW Ch17-20 . 20-	SPC.I -		S128	021SS-38	5			CVVUCR	33	211121 P28	089	
128	SPIRE PSW Ch17-20 . 20gnd	SPC.I -		S128	021SS-38	5		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	128	
099	SPIRE PSW Ch21-24 . 21+	SPC.I -		S129	021SS-38	6		PSW-E11	CVVUCR	33	211121 P28	099	
100	SPIRE PSW Ch21-24 . 21-	SPC.I -		S129	021SS-38	6			CVVUCR	33	211121 P28	100	
128	SPIRE PSW Ch21-24 . 21gnd	SPC.I -		S129	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	128	
110	SPIRE PSW Ch21-24 . 22+	SPC.I -		S129	021SS-38	6		PSW-A11	CVVUCR	33	211121 P28	110	
111	SPIRE PSW Ch21-24 . 22-	SPC.I -		S129	021SS-38	6			CVVUCR	33	211121 P28	111	
128	SPIRE PSW Ch21-24 . 22gnd	SPC.I -		S129	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	128	
118	SPIRE PSW Ch21-24 . 23+	SPC.I -		S129	021SS-38	6		PSW-C11	CVVUCR	33	211121 P28	118	
119	SPIRE PSW Ch21-24 . 23-	SPC.I -		S129	021SS-38	6			CVVUCR	33	211121 P28	119	
128	SPIRE PSW Ch21-24 . 23gnd	SPC.I -		S129	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	128	
112	SPIRE PSW Ch21-24 . 24+	SPC.I -		S129	021SS-38	6		PSB-B11	CVVUCR	33	211121 P28	112	
120	SPIRE PSW Ch21-24 . 24-	SPC.I -		S129	021SS-38	6			CVVUCR	33	211121 P28	120	
128	SPIRE PSW Ch21-24 . 24gnd	SPC.I -		S129	021SS-38	6		Daisy ch to Pin 128 (A2)	CVVUCR	33	211121 P28	128	
-	Farady Link							Cable P02 Faraday Shd con to Busbar tbc					
047	SPIRE PLW B09 GND WIRE A3	SPX.-		S493	010B0-30			Con to Cable from P03 GND/Shds	CVVUCR	33	211121 P28	047	

# Pin Allocation List (Harness)

**Connector:** 312200 J02  
**Item:** HSSVMCB2  
**EMC-Category:** 2/ISig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 09)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
090	SPIRE PSW Ch25-28 . 25+	SPC.I	-	S131	021SS-38	7		PSW-E1	CVVUCR	33	211121 P28	090	
079	SPIRE PSW Ch25-28 . 25-	SPC.I	-	S131	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	079	
128	SPIRE PSW Ch25-28 . 25gnd	SPC.I	-	S131	021SS-38	7			CVVUCR	33	211121 P28	128	3.
102	SPIRE PSW Ch25-28 . 26+	SPC.I	-	S131	021SS-38	7			PSW-F1	CVVUCR	33	211121 P28	102
101	SPIRE PSW Ch25-28 . 26-	SPC.I	-	S131	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	101	
128	SPIRE PSW Ch25-28 . 26gnd	SPC.I	-	S131	021SS-38	7			CVVUCR	33	211121 P28	128	3.
092	SPIRE PSW Ch25-28 . 27+	SPC.I	-	S131	021SS-38	7			PSW-T2	CVVUCR	33	211121 P28	092
091	SPIRE PSW Ch25-28 . 27-	SPC.I	-	S131	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	091	
128	SPIRE PSW Ch25-28 . 27gnd	SPC.I	-	S131	021SS-38	7			CVVUCR	33	211121 P28	128	3.
103	SPIRE PSW Ch25-28 . 28+	SPC.I	-	S131	021SS-38	7			PSW-H1	CVVUCR	33	211121 P28	103
113	SPIRE PSW Ch25-28 . 28-	SPC.I	-	S131	021SS-38	7		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	113	
128	SPIRE PSW Ch25-28 . 28gnd	SPC.I	-	S131	021SS-38	7			CVVUCR	33	211121 P28	128	3.
058	SPIRE PSW Ch29-32 . 29+	SPC.I	-	S132	021SS-38	8			PSW-G1	CVVUCR	33	211121 P28	058
046	SPIRE PSW Ch29-32 . 29-	SPC.I	-	S132	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	046	
128	SPIRE PSW Ch29-32 . 29gnd	SPC.I	-	S132	021SS-38	8			CVVUCR	33	211121 P28	128	3.
068	SPIRE PSW Ch29-32 . 30+	SPC.I	-	S132	021SS-38	8			PSW-J1	CVVUCR	33	211121 P28	068
057	SPIRE PSW Ch29-32 . 30-	SPC.I	-	S132	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	057	
128	SPIRE PSW Ch29-32 . 30gnd	SPC.I	-	S132	021SS-38	8			CVVUCR	33	211121 P28	128	3.
069	SPIRE PSW Ch29-32 . 31+	SPC.I	-	S132	021SS-38	8			PSW-H2	CVVUCR	33	211121 P28	069
080	SPIRE PSW Ch29-32 . 31-	SPC.I	-	S132	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	080	
128	SPIRE PSW Ch29-32 . 31gnd	SPC.I	-	S132	021SS-38	8			CVVUCR	33	211121 P28	128	3.
070	SPIRE PSW Ch29-32 . 32+	SPC.I	-	S132	021SS-38	8			PSW-F2	CVVUCR	33	211121 P28	070
081	SPIRE PSW Ch29-32 . 32-	SPC.I	-	S132	021SS-38	8		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	081	
128	SPIRE PSW Ch29-32 . 32gnd	SPC.I	-	S132	021SS-38	8			CVVUCR	33	211121 P28	128	3.
023	SPIRE PSW Ch33-36 . 33+	SPC.I	-	S133	021SS-38	9			PSW-J2	CVVUCR	33	211121 P28	023
034	SPIRE PSW Ch33-36 . 33-	SPC.I	-	S133	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	034	
004	SPIRE PSW Ch33-36 . 33gnd	SPC.I	-	S133	021SS-38	9			CVVUCR	33	211121 P28	004	3.
033	SPIRE PSW Ch33-36 . 34+	SPC.I	-	S133	021SS-38	9			PSW-G2	CVVUCR	33	211121 P28	033

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-5 (of 8)

**Connector:** 312200 J02  
**Item:** HSSVMCB2  
**EMC-Category:** 2I/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 09)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
045	SPIRE PSW Ch33-36 . 34-	SPC.I -		S133	021SS-38	9			CVVUCR	33	211121 P28	045	
004	SPIRE PSW Ch33-36 . 34gnd	SPC.I -		S133	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	004	3.
044	SPIRE PSW Ch33-36 . 35+	SPC.I -		S133	021SS-38	9		PSW-H3	CVVUCR	33	211121 P28	044	
056	SPIRE PSW Ch33-36 . 35-	SPC.I -		S133	021SS-38	9			CVVUCR	33	211121 P28	056	
004	SPIRE PSW Ch33-36 . 35gnd	SPC.I -		S133	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	004	3.
022	SPIRE PSW Ch33-36 . 36+	SPC.I -		S133	021SS-38	9		PSW-J3	CVVUCR	33	211121 P28	022	
032	SPIRE PSW Ch33-36 . 36-	SPC.I -		S133	021SS-38	9			CVVUCR	33	211121 P28	032	
004	SPIRE PSW Ch33-36 . 36gnd	SPC.I -		S133	021SS-38	9		Daisy ch to Pin 047 (A3)	CVVUCR	33	211121 P28	004	3.
-	Farady Link							Cable P03 Faraday Shd con to Busbar fbc					
004	SPIRE PLW B09 GND WIRE A4	SPX.-		S494	010B0-30			Con to Cable from P04 GND/Shds	CVVUCR	33	211121 P28	004	
013	SPIRE PSW Ch37-40 . 37+	SPC.I -		S136	021SS-38	10		PSW-E2	CVVUCR	33	211121 P28	013	
012	SPIRE PSW Ch37-40 . 37-	SPC.I -		S136	021SS-38	10			CVVUCR	33	211121 P28	012	
004	SPIRE PSW Ch37-40 . 37gnd	SPC.I -		S136	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P28	004	
021	SPIRE PSW Ch37-40 . 38+	SPC.I -		S136	021SS-38	10		PSW-F3	CVVUCR	33	211121 P28	021	
020	SPIRE PSW Ch37-40 . 38-	SPC.I -		S136	021SS-38	10			CVVUCR	33	211121 P28	020	
004	SPIRE PSW Ch37-40 . 38gnd	SPC.I -		S136	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P28	004	
031	SPIRE PSW Ch37-40 . 39+	SPC.I -		S136	021SS-38	10		PSW-G3	CVVUCR	33	211121 P28	031	
043	SPIRE PSW Ch37-40 . 39-	SPC.I -		S136	021SS-38	10			CVVUCR	33	211121 P28	043	
004	SPIRE PSW Ch37-40 . 39gnd	SPC.I -		S136	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P28	004	
042	SPIRE PSW Ch37-40 . 40+	SPC.I -		S136	021SS-38	10		PSW-H4	CVVUCR	33	211121 P28	042	
054	SPIRE PSW Ch37-40 . 40-	SPC.I -		S136	021SS-38	10			CVVUCR	33	211121 P28	054	
004	SPIRE PSW Ch37-40 . 40gnd	SPC.I -		S136	021SS-38	10		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P28	004	
010	SPIRE PSW Ch41-44 . 41+	SPC.I -		S137	021SS-38	11		PSW-J4	CVVUCR	33	211121 P28	010	
011	SPIRE PSW Ch41-44 . 41-	SPC.I -		S137	021SS-38	11			CVVUCR	33	211121 P28	011	
004	SPIRE PSW Ch41-44 . 41gnd	SPC.I -		S137	021SS-38	11		Daisy ch to Pin 004 (A4)	CVVUCR	33	211121 P28	004	

# Pin Allocation List (Harness)

**Connector:** 312200 J02  
**Item:** HSSVMCB2  
**EMC-Category:** 2I/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 09)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Grouping:			Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal		Pos.	Wiring	Shd						
019	SPIRE PSW Ch41-44 . 42+	SPC.I	-	S137	021SS-38	11	PSW-E3	CVUUCR	33	211121 P28	019		
029	SPIRE PSW Ch41-44 . 42-	SPC.I	-	S137	021SS-38	11	Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P28	029		
004	SPIRE PSW Ch41-44 . 42gnd	SPC.I	-	S137	021SS-38	11		CVUUCR	33	211121 P28	004		
041	SPIRE PSW Ch41-44 . 43+	SPC.I	-	S137	021SS-38	11	PSW-F4	CVUUCR	33	211121 P28	041		
030	SPIRE PSW Ch41-44 . 43-	SPC.I	-	S137	021SS-38	11	Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P28	030		
004	SPIRE PSW Ch41-44 . 43gnd	SPC.I	-	S137	021SS-38	11		CVUUCR	33	211121 P28	004		
053	SPIRE PSW Ch41-44 . 44+	SPC.I	-	S137	021SS-38	11	PSW-G4	CVUUCR	33	211121 P28	053		
052	SPIRE PSW Ch41-44 . 44-	SPC.I	-	S137	021SS-38	11	Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P28	052		
004	SPIRE PSW Ch41-44 . 44gnd	SPC.I	-	S137	021SS-38	11		CVUUCR	33	211121 P28	004		
009	SPIRE PSW Ch45-48 . 45+	SPC.I	-	S138	021SS-38	12	PSW-H5	CVUUCR	33	211121 P28	009		
017	SPIRE PSW Ch45-48 . 45-	SPC.I	-	S138	021SS-38	12	Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P28	017		
004	SPIRE PSW Ch45-48 . 45gnd	SPC.I	-	S138	021SS-38	12		CVUUCR	33	211121 P28	004		
018	SPIRE PSW Ch45-48 . 46+	SPC.I	-	S138	021SS-38	12	PSW-E4	CVUUCR	33	211121 P28	018		
028	SPIRE PSW Ch45-48 . 46-	SPC.I	-	S138	021SS-38	12	Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P28	028		
004	SPIRE PSW Ch45-48 . 46gnd	SPC.I	-	S138	021SS-38	12		CVUUCR	33	211121 P28	004		
016	SPIRE PSW Ch45-48 . 47+	SPC.I	-	S138	021SS-38	12	PSW-J5	CVUUCR	33	211121 P28	016		
027	SPIRE PSW Ch45-48 . 47-	SPC.I	-	S138	021SS-38	12	Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P28	027		
004	SPIRE PSW Ch45-48 . 47gnd	SPC.I	-	S138	021SS-38	12		CVUUCR	33	211121 P28	004		
040	SPIRE PSW Ch45-48 . 48+	SPC.I	-	S138	021SS-38	12	PSW-F5	CVUUCR	33	211121 P28	040		
039	SPIRE PSW Ch45-48 . 48-	SPC.I	-	S138	021SS-38	12	Daisy ch to Pin 004 (A4)	CVUUCR	33	211121 P28	039		
004	SPIRE PSW Ch45-48 . 48gnd	SPC.I	-	S138	021SS-38	12		CVUUCR	33	211121 P28	004		
-	Faraday Link						Cable from P04 Faraday Shd con to Busbar tbc						
001	Faraday Pins						Connected to Busbar ECR0039tbc						
002	Faraday Pins						Connected to Busbar ECR0039tbc						
003	Faraday Pins						Connected to Busbar ECR0039tbc						

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-7 (of 8)

Connector: 312200 J02

Item: HSSVMCB2

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB2 (SPIRE Bundle 09)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
005	Faraday Pins							Connected to Busbar ECR0039tbc					
006	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					
015	Faraday Pins							Connected to Busbar ECR0039tbc					
024	Faraday Pins							Connected to Busbar ECR0039tbc					
025	Faraday Pins							Connected to Busbar ECR0039tbc					
035	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
093	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
104	Faraday Pins							Connected to Busbar ECR0039tbc					
105	Faraday Pins							Connected to Busbar ECR0039tbc					
114	Faraday Pins							Connected to Busbar ECR0039tbc					
115	Faraday Pins							Connected to Busbar ECR0039tbc					
121	Faraday Pins							Connected to Busbar ECR0039tbc					
122	Faraday Pins							Connected to Busbar ECR0039tbc					
123	Faraday Pins							Connected to Busbar ECR0039tbc					
124	Faraday Pins							Connected to Busbar ECR0039tbc					

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Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-8 (of 8)

**Connector:** 312200 J02  
**Item:** HSSVMCB2  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB2 (SPIRE Bundle 09)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	CH Connector Housing							CH isolated from Faraday Shds					
-	Insulating Jacket							Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd							Bundle Overall Shd con to Backshell					





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Project: **HERSCHEL**

For wiring schematic  
see S11-15-10; CVVUCR P34

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-1 (of 5)

Connector: 312300 J06

Item: HSSVMCB3

EMC-Category: 2I/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB3 (SPIRE Bundle 10)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
029	SPIRE SorptPumpTemp(N) . I+	S3E.-	-	S234	041SS-38	1			CVVUCR	33	211121 P34	029	
041	SPIRE SorptPumpTemp(N) . V+	S3E.-	-	S234	041SS-38	1			CVVUCR	33	211121 P34	041	
042	SPIRE SorptPumpTemp(N) . V-	S3E.-	-	S234	041SS-38	1			CVVUCR	33	211121 P34	042	
030	SPIRE SorptPumpTemp(N) . I-	S3E.-	-	S234	041SS-38	1			CVVUCR	33	211121 P34	030	
031	SPIRE SorptPumpTemp(N) . SHD01	S3E.-	-	S234	041SS-38	1		Cable S234 to S238 Shd con together	CVVUCR	33	211121 P34	031	
077	SPIRE EvaporatorTemp(N) . I+	S3E.-	-	S235	041SS-38	2			CVVUCR	33	211121 P34	077	
066	SPIRE EvaporatorTemp(N) . V+	S3E.-	-	S235	041SS-38	2			CVVUCR	33	211121 P34	066	
065	SPIRE EvaporatorTemp(N) . V-	S3E.-	-	S235	041SS-38	2			CVVUCR	33	211121 P34	065	
076	SPIRE EvaporatorTemp(N) . I-	S3E.-	-	S235	041SS-38	2			CVVUCR	33	211121 P34	076	
054	SPIRE EvaporatorTemp(N) . SHD02	S3E.-	-	S235	041SS-38	2		Cable S234 to S238 Shd con together	CVVUCR	33	211121 P34	054	
053	SPIRE SorptPumpSwTemp(N) . I+	S3E.-	-	S236	041SS-38	3			CVVUCR	33	211121 P34	053	
064	SPIRE SorptPumpSwTemp(N) . V+	S3E.-	-	S236	041SS-38	3			CVVUCR	33	211121 P34	064	
063	SPIRE SorptPumpSwTemp(N) . V-	S3E.-	-	S236	041SS-38	3			CVVUCR	33	211121 P34	063	
052	SPIRE SorptPumpSwTemp(N) . I-	S3E.-	-	S236	041SS-38	3			CVVUCR	33	211121 P34	052	
075	SPIRE SorptPumpSwTemp(N) . SHD03	S3E.-	-	S236	041SS-38	3		Cable S234 to S238 Shd con together	CVVUCR	33	211121 P34	075	
050	SPIRE EvaporSwTemp(N) . I+	S3E.-	-	S237	041SS-38	4			CVVUCR	33	211121 P34	050	
062	SPIRE EvaporSwTemp(N) . V+	S3E.-	-	S237	041SS-38	4			CVVUCR	33	211121 P34	062	
051	SPIRE EvaporSwTemp(N) . V-	S3E.-	-	S237	041SS-38	4			CVVUCR	33	211121 P34	051	
061	SPIRE EvaporSwTemp(N) . I-	S3E.-	-	S237	041SS-38	4			CVVUCR	33	211121 P34	061	
039	SPIRE EvaporSwTemp(N) . SHD04	S3E.-	-	S237	041SS-38	4		Cable S234 to S238 Shd con together	CVVUCR	33	211121 P34	039	
011	SPIRE ThermShuntTemp(N) . I+A	S3E.-	-	S238	041SS-38	5			CVVUCR	33	211121 P34	011	
019	SPIRE ThermShuntTemp(N) . V+B	S3E.-	-	S238	041SS-38	5			CVVUCR	33	211121 P34	019	
018	SPIRE ThermShuntTemp(N) . V-A	S3E.-	-	S238	041SS-38	5			CVVUCR	33	211121 P34	018	
010	SPIRE ThermShuntTemp(N) . I-B	S3E.-	-	S238	041SS-38	5			CVVUCR	33	211121 P34	010	
020	SPIRE ThermShuntTemp(N) . SHD05	S3E.-	-	S238	041SS-38	5		Cable S234 to S238 Shd con together	CVVUCR	33	211121 P34	020	
006	SPIRE SorptPumpHtr(N) . I+A	S3F.-	-	S239	040B0-30				CVVUCR	33	211121 P34	006	
013	SPIRE SorptPumpHtr(N) . I+B	S3F.-	-	S239	040B0-30				CVVUCR	33	211121 P34	013	
005	SPIRE SorptPumpHtr(N) . I-A	S3F.-	-	S239	040B0-30				CVVUCR	33	211121 P34	005	
012	SPIRE SorptPumpHtr(N) . I-B	S3F.-	-	S239	040B0-30				CVVUCR	33	211121 P34	012	

# Pin Allocation List

(Harness)

**Connector:** 312300 J06  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 10)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal									
022	SPIRE SorptPumpSwHtr(N) . I+A	S3F.-	-	S240	040B0-30			CVVUCR	33	211121 P34	022	
033	SPIRE SorptPumpSwHtr(N) . I+B	S3F.-	-	S240	040B0-30			CVVUCR	33	211121 P34	033	
021	SPIRE SorptPumpSwHtr(N) . I-A	S3F.-	-	S240	040B0-30			CVVUCR	33	211121 P34	021	
032	SPIRE SorptPumpSwHtr(N) . I-B	S3F.-	-	S240	040B0-30			CVVUCR	33	211121 P34	032	
055	SPIRE EvaporSwHtr(N) . I+A	S3F.-	-	S241	040B0-30			CVVUCR	33	211121 P34	055	
056	SPIRE EvaporSwHtr(N) . I+B	S3F.-	-	S241	040B0-30			CVVUCR	33	211121 P34	056	
043	SPIRE EvaporSwHtr(N) . I-A	S3F.-	-	S241	040B0-30			CVVUCR	33	211121 P34	043	
044	SPIRE EvaporSwHtr(N) . I-B	S3F.-	-	S241	040B0-30			CVVUCR	33	211121 P34	044	
004	SPIRE FPU FC Faraday . SFF	SFF.-	-	S249	010B0-30		Cable P19 Faraday Shd con to Busbar tbc	CVVUCR	33	211121 P34	004	3. 3. 3.
111	SPIRE Spectr4%Temp (N) . I+	SCA.-	-	S242	041SS-38	9		CVVUCR	33	211121 P34	111	
120	SPIRE Spectr4%Temp (N) . V+	SCA.-	-	S242	041SS-38	9		CVVUCR	33	211121 P34	120	
128	SPIRE Spectr4%Temp (N) . V-	SCA.-	-	S242	041SS-38	9		CVVUCR	33	211121 P34	128	
112	SPIRE Spectr4%Temp (N) . I-	SCA.-	-	S242	041SS-38	9		CVVUCR	33	211121 P34	112	
121	SPIRE Spectr4%Temp (N) . SHD01	SCA.-	-	S242	041SS-38	9	Cable S242 to S244 Shd con together	CVVUCR	33	211121 P34	121	
091	SPIRE Spectr2%Temp (N) . I+	SCA.-	-	S243	041SS-38	10		CVVUCR	33	211121 P34	091	
092	SPIRE Spectr2%Temp (N) . V+	SCA.-	-	S243	041SS-38	10		CVVUCR	33	211121 P34	092	
081	SPIRE Spectr2%Temp (N) . V-	SCA.-	-	S243	041SS-38	10		CVVUCR	33	211121 P34	081	
080	SPIRE Spectr2%Temp (N) . I-	SCA.-	-	S243	041SS-38	10		CVVUCR	33	211121 P34	080	
093	SPIRE Spectr2%Temp (N) . SHD02	SCA.-	-	S243	041SS-38	10	Cable S242 to S244 Shd con together	CVVUCR	33	211121 P34	093	
114	SPIRE SpStimFlanTemp(N) . I+	SCA.-	-	S244	041SS-38	11		CVVUCR	33	211121 P34	114	
113	SPIRE SpStimFlanTemp(N) . V+	SCA.-	-	S244	041SS-38	11		CVVUCR	33	211121 P34	113	
103	SPIRE SpStimFlanTemp(N) . V-	SCA.-	-	S244	041SS-38	11		CVVUCR	33	211121 P34	103	
104	SPIRE SpStimFlanTemp(N) . I-	SCA.-	-	S244	041SS-38	11		CVVUCR	33	211121 P34	104	
102	SPIRE SpStimFlanTemp(N) . SHD03	SCA.-	-	S244	041SS-38	11	Cable S242 to S244 Shd con together	CVVUCR	33	211121 P34	102	
035	SPIRE Spectr4%Heater (N) . I+A	SCB.-	-	S245	040B0-30			CVVUCR	33	211121 P34	035	
024	SPIRE Spectr4%Heater (N) . I+B	SCB.-	-	S245	040B0-30			CVVUCR	33	211121 P34	024	
034	SPIRE Spectr4%Heater (N) . I-A	SCB.-	-	S245	040B0-30			CVVUCR	33	211121 P34	034	

**Astrium GmbH**  
Project: **HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 312300 J06  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 10)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
023	SPIRE Spectr4%Heater (N) . I-B	SCB-	-	S245	040B0-30				CVVUCR	33	211121 P34	023	
046	SPIRE Spectr2%Heater (N) . I+A	SCB-	-	S246	040B0-30				CVVUCR	33	211121 P34	046	
058	SPIRE Spectr2%Heater (N) . I+B	SCB-	-	S246	040B0-30				CVVUCR	33	211121 P34	058	
045	SPIRE Spectr2%Heater (N) . I-A	SCB-	-	S246	040B0-30				CVVUCR	33	211121 P34	045	
057	SPIRE Spectr2%Heater (N) . I-B	SCB-	-	S246	040B0-30				CVVUCR	33	211121 P34	057	
047	SPIRE FPU FSS Faraday . SFF	SFF-	-	S251	010B0-30			Cable P21 Faraday Shd con to Busbar tbc	CVVUCR	33	211121 P34	047	3. 3. 3.
089	SPIRE FilterTemp(N) . I+	STA-	-	S253	041SS-38	20			CVVUCR	33	211121 P34	089	
100	SPIRE FilterTemp(N) . V+	STA-	-	S253	041SS-38	20			CVVUCR	33	211121 P34	100	
099	SPIRE FilterTemp(N) . V-	STA-	-	S253	041SS-38	20			CVVUCR	33	211121 P34	099	
088	SPIRE FilterTemp(N) . I-	STA-	-	S253	041SS-38	20			CVVUCR	33	211121 P34	088	
101	SPIRE FilterTemp(N) . SHD06	STA-	-	S253	041SS-38	20		Cable S253 to S258 Shd con together	CVVUCR	33	211121 P34	101	
118	SPIRE SpectDetBoxTemp(N) . I+	STA-	-	S254	041SS-38	15			CVVUCR	33	211121 P34	118	
125	SPIRE SpectDetBoxTemp(N) . V+	STA-	-	S254	041SS-38	15			CVVUCR	33	211121 P34	125	
126	SPIRE SpectDetBoxTemp(N) . V-	STA-	-	S254	041SS-38	15			CVVUCR	33	211121 P34	126	
119	SPIRE SpectDetBoxTemp(N) . I-	STA-	-	S254	041SS-38	15			CVVUCR	33	211121 P34	119	
110	SPIRE SpectDetBoxTemp(N) . SHD01	STA-	-	S254	041SS-38	15		Cable S253 to S258 Shd con together	CVVUCR	33	211121 P34	110	
123	SPIRE PhotomDetBoxTemp(N) . I+	STA-	-	S255	041SS-38	16			CVVUCR	33	211121 P34	123	
116	SPIRE PhotomDetBoxTemp(N) . V+	STA-	-	S255	041SS-38	16			CVVUCR	33	211121 P34	116	
117	SPIRE PhotomDetBoxTemp(N) . V-	STA-	-	S255	041SS-38	16			CVVUCR	33	211121 P34	117	
124	SPIRE PhotomDetBoxTemp(N) . I-	STA-	-	S255	041SS-38	16			CVVUCR	33	211121 P34	124	
108	SPIRE PhotomDetBoxTemp(N) . SHD02	STA-	-	S255	041SS-38	16		Cable S253 to S258 Shd con together	CVVUCR	33	211121 P34	108	
106	SPIRE OptSubbenchTemp(N) . I+	STA-	-	S256	041SS-38	17			CVVUCR	33	211121 P34	106	
107	SPIRE OptSubbenchTemp(N) . V+	STA-	-	S256	041SS-38	17			CVVUCR	33	211121 P34	107	
122	SPIRE OptSubbenchTemp(N) . V-	STA-	-	S256	041SS-38	17			CVVUCR	33	211121 P34	122	
115	SPIRE OptSubbenchTemp(N) . I-	STA-	-	S256	041SS-38	17			CVVUCR	33	211121 P34	115	
105	SPIRE OptSubbenchTemp(N) . SHD03	STA-	-	S256	041SS-38	17		Cable S253 to S258 Shd con together	CVVUCR	33	211121 P34	105	
097	SPIRE FPUInpBaffleTemp(N) . I+	STA-	-	S257	041SS-38	18			CVVUCR	33	211121 P34	097	

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## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 312300 J06  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 10)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
086	SPIRE FPUInpBaffleTmp(N) . V+	STA-	-	S257	041SS-38	18			CVVUCR	33	211121 P34	086	
087	SPIRE FPUInpBaffleTmp(N) . V-	STA-	-	S257	041SS-38	18			CVVUCR	33	211121 P34	087	
098	SPIRE FPUInpBaffleTmp(N) . I-	STA-	-	S257	041SS-38	18			CVVUCR	33	211121 P34	098	
109	SPIRE FPUInpBaffleTmp(N) . SHD04	STA-	-	S257	041SS-38	18		Cable S253 to S258 Shd con together	CVVUCR	33	211121 P34	109	
073	SPIRE BSM/SOB IFTmp(N) . I+	STA-	-	S258	041SS-38	19			CVVUCR	33	211121 P34	073	
074	SPIRE BSM/SOB IFTmp(N) . V+	STA-	-	S258	041SS-38	19			CVVUCR	33	211121 P34	074	
085	SPIRE BSM/SOB IFTmp(N) . V-	STA-	-	S258	041SS-38	19			CVVUCR	33	211121 P34	085	
084	SPIRE BSM/SOB IFTmp(N) . I-	STA-	-	S258	041SS-38	19			CVVUCR	33	211121 P34	084	
096	SPIRE BSM/SOB IFTmp(N) . SHD05	STA-	-	S258	041SS-38	19		Cable S253 to S258 Shd con together	CVVUCR	33	211121 P34	096	
079	SPIRE PTC Htr(N) . I+A	STB-	-	S259	041BS-30	21			CVVUCR	33	211121 P34	079	
078	SPIRE PTC Htr(N) . I+B	STB-	-	S259	041BS-30	21			CVVUCR	33	211121 P34	078	
068	SPIRE PTC Htr(N) . I-A	STB-	-	S259	041BS-30	21			CVVUCR	33	211121 P34	068	
067	SPIRE PTC Htr(N) . I-B	STB-	-	S259	041BS-30	21			CVVUCR	33	211121 P34	067	
090	SPIRE PTC Htr(N) . SHD07	STB-	-	S259	041BS-30	21		Cable S259Shd	CVVUCR	33	211121 P34	090	
094	SPIRE FPU TP Faraday . SFF	SFF-	-	S250	010B0-30			Cable P23 Faraday Shd con to Busbar tbc	CVVUCR	33	211121 P34	094	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					
004	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					
015	Faraday Pins							Connected to Busbar ECR0039tbc					

# Astrium GmbH

Project: **HERSCHEL**

## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
Issue: 1.0 Date: 21.04.2004  
Sheet: PAL-5 (of 5)

Connector: 312300 J06

Item: HSSVMCB3

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB3 (SPIRE Bundle 10)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
025	Faraday Pins							Connected to Busbar ECR0039tbc					
036	Faraday Pins							Connected to Busbar ECR0039tbc					
047	Faraday Pins							Connected to Busbar ECR0039tbc					
059	Faraday Pins							Connected to Busbar ECR0039tbc					
070	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	Connector Housing							CH Isolated from Farady Shds					
-	Insulating Jacket							Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd							Bundle Overall Shd con to Backshell					





For wiring schematic  
 see SIH. IS-M. CVVUCR P30

**Connector:** 312300 J04  
**Item:** HSSVMCB3

**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 11)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
051	SPIRE ChopSensor1&2(N) . 1	SBA-	-	S041	021SS-38	1				CVVUCR	33	211121 P30	051	
040	SPIRE ChopSensor1&2(N) . 2	SBA-	-	S041	021SS-38	1				CVVUCR	33	211121 P30	040	
039	SPIRE ChopSensor1&2(N) . SHD01	SBA-	-	S041	021SS-38	1			Cable S41, 43, 45, 48 Shd con together	CVVUCR	33	211121 P30	039	
028	SPIRE ChopSensor3-5(N) . 3	SBB-	-	S043	031BS-38	3				CVVUCR	33	211121 P30	028	
017	SPIRE ChopSensor3-5(N) . 4	SBB-	-	S043	031BS-38	3				CVVUCR	33	211121 P30	017	
016	SPIRE ChopSensor3-5(N) . 5	SBB-	-	S043	031BS-38	3				CVVUCR	33	211121 P30	016	
027	SPIRE ChopSensor3-5(N) . SHD03	SBB-	-	S043	031BS-38	3			Cable S41, 43, 45, 48 Shd con together	CVVUCR	33	211121 P30	027	
049	SPIRE JiggleSensor1&2(N) . 1	SBA-	-	S045	021SS-38	2				CVVUCR	33	211121 P30	049	
050	SPIRE JiggleSensor1&2(N) . 2	SBA-	-	S045	021SS-38	2				CVVUCR	33	211121 P30	050	
038	SPIRE JiggleSensor1&2(N) . SHD02	SBA-	-	S045	021SS-38	2			Cable S41, 43, 45, 48 Shd con together	CVVUCR	33	211121 P30	038	
015	SPIRE JiggleSensor3-5(N) . 3	SBB-	-	S048	031BS-38	4				CVVUCR	33	211121 P30	015	
025	SPIRE JiggleSensor3-5(N) . 4	SBB-	-	S048	031BS-38	4				CVVUCR	33	211121 P30	025	
037	SPIRE JiggleSensor3-5(N) . 5	SBB-	-	S048	031BS-38	4				CVVUCR	33	211121 P30	037	
026	SPIRE JiggleSensor3-5(N) . SHD04	SBB-	-	S048	031BS-38	4			Cable S41, 43, 45, 48 Shd con together	CVVUCR	33	211121 P30	026	
086	SPIRE BSMTemp(N) . I+	SBC-	-	S103	041SS-38	5				CVVUCR	33	211121 P30	086	
097	SPIRE BSMTemp(N) . V+	SBC-	-	S103	041SS-38	5				CVVUCR	33	211121 P30	097	
098	SPIRE BSMTemp(N) . V-	SBC-	-	S103	041SS-38	5				CVVUCR	33	211121 P30	098	
087	SPIRE BSMTemp(N) . I-	SBC-	-	S103	041SS-38	5				CVVUCR	33	211121 P30	087	
075	SPIRE BSMTemp(N) . SHD05	SBC-	-	S103	041SS-38	5			Cable S103 Shd	CVVUCR	33	211121 P30	075	
048	SPIRE P-Cal Htr(N) . I+A	SBD-	-	S260	041BS-30	6				CVVUCR	33	211121 P30	048	
071	SPIRE P-Cal Htr(N) . I+B	SBD-	-	S260	041BS-30	6				CVVUCR	33	211121 P30	071	
060	SPIRE P-Cal Htr(N) . I-A	SBD-	-	S260	041BS-30	6				CVVUCR	33	211121 P30	060	
059	SPIRE P-Cal Htr(N) . I-B	SBD-	-	S260	041BS-30	6				CVVUCR	33	211121 P30	059	
036	SPIRE P-Cal Htr(N) . SHD06	SBD-	-	S260	041BS-30	6			Cable S260 Shd	CVVUCR	33	211121 P30	036	
108	SPIRE BSMChLchConf(N) . 1	SBE-	-	S261	021SS-38	7				CVVUCR	33	211121 P30	108	
116	SPIRE BSMChLchConf(N) . 2	SBE-	-	S261	021SS-38	7				CVVUCR	33	211121 P30	116	
107	SPIRE BSMChLchConf(N) . SHD07	SBE-	-	S261	021SS-38	7			Cable S261 Shd	CVVUCR	33	211121 P30	107	



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## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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Connector: 312300 J04  
Item: HSSVMCB3

EMC-Category: 2/Sig H fr CWWFT to SVMCB

Function: SPIRE SVM CB3 (SPIRE Bundle 11)  
Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P  
Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
105	SPIRE BSMLatchDrive(N) . SUP	SBF.-	-	S262	021BS-30	8			CVVUCR	33	211121 P30	105	
115	SPIRE BSMLatchDrive(N) . RTN	SBF.-	-	S262	021BS-30	8			CVVUCR	33	211121 P30	115	
106	SPIRE BSMLatchDrive(N) . SHD08	SBF.-	-	S262	021BS-30	8		Cable S262 Shd	CVVUCR	33	211121 P30	106	
072	SPIRE ChopMotDrive(N) . 1	SBG.-	-	S263	041BS-30	9			CVVUCR	33	211121 P30	072	
061	SPIRE ChopMotDrive(N) . 2	SBG.-	-	S263	041BS-30	9			CVVUCR	33	211121 P30	061	
062	SPIRE ChopMotDrive(N) . 3	SBG.-	-	S263	041BS-30	9			CVVUCR	33	211121 P30	062	
074	SPIRE ChopMotDrive(N) . 4	SBG.-	-	S263	041BS-30	9			CVVUCR	33	211121 P30	074	
073	SPIRE ChopMotDrive(N) . SHD09	SBG.-	-	S263	041BS-30	9		Cable S263, 264Shd con together	CVVUCR	33	211121 P30	073	
083	SPIRE JiggleMotDrive(N) . 1	SBG.-	-	S264	041BS-30	10			CVVUCR	33	211121 P30	083	
095	SPIRE JiggleMotDrive(N) . 2	SBG.-	-	S264	041BS-30	10			CVVUCR	33	211121 P30	095	
096	SPIRE JiggleMotDrive(N) . 3	SBG.-	-	S264	041BS-30	10			CVVUCR	33	211121 P30	096	
085	SPIRE JiggleMotDrive(N) . 4	SBG.-	-	S264	041BS-30	10			CVVUCR	33	211121 P30	085	
084	SPIRE JiggleMotDrive(N) . SHD10	SBG.-	-	S264	041BS-30	10		Cable S263, 264Shd con together	CVVUCR	33	211121 P30	084	
082	SPIRE FPU BSM Faraday . SFF	SFF.-	-	S252	010B0-30			Cable P25 Faraday Shd con to Busbar ECR0039tbc	CVVUCR	33	211121 P30	082	3. 3. 3.
117	SPIRE SMECLLch#1Conf(N) . 1+	SME.-	-	S265	021BS-30	16			CVVUCR	33	211121 P30	117	
118	SPIRE SMECLLch#1Conf(N) . 1-	SME.-	-	S265	021BS-30	16			CVVUCR	33	211121 P30	118	
109	SPIRE SMECLLch#1Conf(N) . SHD06	SME.-	-	S265	021BS-30	16		Cable S265 Shd (con to Faraday!) (A)	CVVUCR	33	211121 P30	109	
111	SPIRE SMECLLch#2Conf(N) . 2+	SME.-	-	S266	021BS-30	17			CVVUCR	33	211121 P30	111	
119	SPIRE SMECLLch#2Conf(N) . 2-	SME.-	-	S266	021BS-30	17			CVVUCR	33	211121 P30	119	
110	SPIRE SMECLLch#2Conf(N) . SHD07	SME.-	-	S266	021BS-30	17		Cable S266 Shd (con to Faraday!) (A)	CVVUCR	33	211121 P30	110	
067	SPIRE SMECLL#1Pwr1(A/N) . S1	SMF.-	-	S267	021BS-30	18			CVVUCR	33	211121 P30	067	
066	SPIRE SMECLL#1Pwr1(A/N) . R1	SMF.-	-	S267	021BS-30	18			CVVUCR	33	211121 P30	066	

# Pin Allocation List (Harness)

**Connector:** 312300 J04  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 11)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal Pos.			Shd	Cable Twist						
078	SPIRE SMECLL#1Pwr1/A(N) . SHD08	SMF.-	-	S267	021BS-30	18		Cable S267 to 270 Shd con together (B)	CVVUCR	33	211121 P30	078	
069	SPIRE SMECLL#1Pwr2/B(N) . S2	SMF.-	-	S268	021BS-30	19			CVVUCR	33	211121 P30	069	
068	SPIRE SMECLL#1Pwr2/B(N) . R2	SMF.-	-	S268	021BS-30	19			CVVUCR	33	211121 P30	068	
080	SPIRE SMECLL#1Pwr2/B(N) . SHD09	SMF.-	-	S268	021BS-30	19		Cable S267 to 270 Shd con together (B)	CVVUCR	33	211121 P30	080	
090	SPIRE SMECLL#2Pwr1/A(N) . S1	SMF.-	-	S269	021BS-30	20			CVVUCR	33	211121 P30	090	
091	SPIRE SMECLL#2Pwr1/A(N) . R1	SMF.-	-	S269	021BS-30	20			CVVUCR	33	211121 P30	091	
079	SPIRE SMECLL#2Pwr1/A(N) . SHD10	SMF.-	-	S269	021BS-30	20		Cable S267 to 270 Shd con together (B)	CVVUCR	33	211121 P30	079	
092	SPIRE SMECLL#2Pwr2/B(N) . S2	SMF.-	-	S270	021BS-30	21			CVVUCR	33	211121 P30	092	
093	SPIRE SMECLL#2Pwr2/B(N) . R2	SMF.-	-	S270	021BS-30	21			CVVUCR	33	211121 P30	093	
081	SPIRE SMECLL#2Pwr2/B(N) . SHD11	SMF.-	-	S270	021BS-30	21		Cable S267 to 270 Shd con together (B)	CVVUCR	33	211121 P30	081	
088	SPIRE SMECTemp(N) . I+	SMC.-	-	S271	041SS-38	14			CVVUCR	33	211121 P30	088	
099	SPIRE SMECTemp(N) . V+	SMC.-	-	S271	041SS-38	14			CVVUCR	33	211121 P30	099	
100	SPIRE SMECTemp(N) . V-	SMC.-	-	S271	041SS-38	14			CVVUCR	33	211121 P30	100	
089	SPIRE SMECTemp(N) . I-	SMC.-	-	S271	041SS-38	14			CVVUCR	33	211121 P30	089	
077	SPIRE SMECTemp(N) . SHD04	SMC.-	-	S271	041SS-38	14		Cable S271,272 Shd con together (C)	CVVUCR	33	211121 P30	077	
054	SPIRE SMEC/SOB /FTmp(N) . I+	SMC.-	-	S272	041SS-38	15			CVVUCR	33	211121 P30	054	
065	SPIRE SMEC/SOB /FTmp(N) . V+	SMC.-	-	S272	041SS-38	15			CVVUCR	33	211121 P30	065	
064	SPIRE SMEC/SOB /FTmp(N) . V-	SMC.-	-	S272	041SS-38	15			CVVUCR	33	211121 P30	064	
053	SPIRE SMEC/SOB /FTmp(N) . I-	SMC.-	-	S272	041SS-38	15			CVVUCR	33	211121 P30	053	
076	SPIRE SMEC/SOB /FTmp(N) . SHD05	SMC.-	-	S272	041SS-38	15		Cable S271,272 Shd con together (C)	CVVUCR	33	211121 P30	076	
101	SPIRE SMECLVDTPrICIPw(N) . P	SMA.-	-	S273	021BS-30	11			CVVUCR	33	211121 P30	101	
102	SPIRE SMECLVDTPrICIPw(N) . N	SMA.-	-	S273	021BS-30	11			CVVUCR	33	211121 P30	102	

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## Pin Allocation List (Harness)

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**Connector:** 312300 J04  
**Item:** HSSVMCB3  
**EMC-Category:** 2/ISig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 11)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
112	SPIRE SMECLVDTPrCIPw(N) . SHD01	SMA	-	S273	021BS-30	11		Cable S273 to 275 Shd con together (D)	CVUUCR	33	211121 P30	112	
127	SPIRE SMECLVDTSI#1Sg(N) . P	SMB	-	S274	021BS-30	12			CVUUCR	33	211121 P30	127	
120	SPIRE SMECLVDTSI#1Sg(N) . N	SMB	-	S274	021BS-30	12			CVUUCR	33	211121 P30	120	
128	SPIRE SMECLVDTSI#1Sg(N) . SHD02	SMB	-	S274	021BS-30	12		Cable S273 to 275 Shd con together (D)	CVUUCR	33	211121 P30	128	
114	SPIRE SMECLVDTSI#2Sg(N) . P	SMB	-	S275	021BS-30	13			CVUUCR	33	211121 P30	114	
113	SPIRE SMECLVDTSI#2Sg(N) . N	SMB	-	S275	021BS-30	13			CVUUCR	33	211121 P30	113	
121	SPIRE SMECLVDTSI#2Sg(N) . SHD03	SMB	-	S275	021BS-30	13		Cable S273 to 275 Shd con together (D)	CVUUCR	33	211121 P30	121	
104	SPIRE FPU SMEC Faraday . SFF	SFF	-	S300	010B0-30			Cable P27 Faraday Shd con to Busbar ECR0039tbc	CVUUCR	33	211121 P30	104	3. 3. 3.
012	SPIRE SMEC Drv Coil (N) . I+	SMD	-	S276	021BS-30	22			CVUUCR	33	211121 P30	012	
005	SPIRE SMEC Drv Coil (N) . I-	SMD	-	S276	021BS-30	22			CVUUCR	33	211121 P30	005	
013	SPIRE SMEC Drv Coil (N) . SHD01	SMD	-	S276	021BS-30	22		Cable S276, 277 con together (A)	CVUUCR	33	211121 P30	013	
022	SPIRE SMEC Drv Coil (Rob) (N) . I+	SMD	-	S277	021BS-30	23			CVUUCR	33	211121 P30	022	
007	SPIRE SMEC Drv Coil (Rob) (N) . I-	SMD	-	S277	021BS-30	23			CVUUCR	33	211121 P30	007	
013	SPIRE SMEC Drv Coil (Rob) (N) . SHD02	SMD	-	S277	021BS-30	23		Cable S276, 277 con together (A)	CVUUCR	33	211121 P30	013	
014	SPIRE SMEC Drv Sense (N) . Sen+	SMG	-	S278	021BS-38	24			CVUUCR	33	211121 P30	014	
024	SPIRE SMEC Drv Sense (N) . Sen-	SMG	-	S278	021BS-38	24			CVUUCR	33	211121 P30	024	
023	SPIRE SMEC Drv Sense (N) . SHD03	SMG	-	S278	021BS-38	24		Cable S278 Shd	CVUUCR	33	211121 P30	023	
009	SPIRE SMEC PosSelEDPwr(N) . S	SMH	-	S279	021BS-38	25			CVUUCR	33	211121 P30	009	
002	SPIRE SMEC PosSelEDPwr(N) . R	SMH	-	S279	021BS-38	25			CVUUCR	33	211121 P30	002	
003	SPIRE SMEC PosSelEDPwr(N) . SHD04	SMH	-	S279	021BS-38	25		Cable S279 Shd	CVUUCR	33	211121 P30	003	

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## Pin Allocation List (Harness)

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**Connector:** 312300 J04  
**Item:** HSSVMCB3  
**EMC-Category:** 2/ISig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 11)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
011	SPIRE SMEC PosSensPwr(N) . S	SMH.-	-	S280	021BS-38	26		Cable S280 Shd	CVVUCR	33	211121 P30	011	
004	SPIRE SMEC PosSensPwr(N) . R	SMH.-	-	S280	021BS-38	26			CVVUCR	33	211121 P30	004	
010	SPIRE SMEC PosSensPwr(N) . SHD05	SMH.-	-	S280	021BS-38	26			CVVUCR	33	211121 P30	010	
018	SPIRE SMEC PosPhdI#1(N) . I+	SMJ.-	-	S281	021SS-38	27		Cable S281, 283,285 Shd con together (B)	CVVUCR	33	211121 P30	018	
019	SPIRE SMEC PosPhdI#1(N) . I-	SMJ.-	-	S281	021SS-38	27			CVVUCR	33	211121 P30	019	
029	SPIRE SMEC PosPhdI#1(N) . SHD06	SMJ.-	-	S281	021SS-38	27			CVVUCR	33	211121 P30	029	
056	SPIRE SMEC PosPhdI#1FB(N) . S	SMK.-	-	S282	021SS-38	30		Cable S282, 284,286 Shd con together (C)	CVVUCR	33	211121 P30	056	
055	SPIRE SMEC PosPhdI#1FB(N) . R	SMK.-	-	S282	021SS-38	30			CVVUCR	33	211121 P30	055	
044	SPIRE SMEC PosPhdI#1FB(N) . SHD09	SMK.-	-	S282	021SS-38	30			CVVUCR	33	211121 P30	044	
042	SPIRE SMEC PosPhdI#2(N) . I+	SMJ.-	-	S283	021SS-38	28		Cable S281, 283,285 Shd con together (B)	CVVUCR	33	211121 P30	042	
041	SPIRE SMEC PosPhdI#2(N) . I-	SMJ.-	-	S283	021SS-38	28			CVVUCR	33	211121 P30	041	
030	SPIRE SMEC PosPhdI#2(N) . SHD07	SMJ.-	-	S283	021SS-38	28			CVVUCR	33	211121 P30	030	
034	SPIRE SMEC PosPhdI#2FB(N) . S	SMK.-	-	S284	021SS-38	31		Cable S282, 284,286 Shd con together (C)	CVVUCR	33	211121 P30	034	
033	SPIRE SMEC PosPhdI#2FB(N) . R	SMK.-	-	S284	021SS-38	31			CVVUCR	33	211121 P30	033	
045	SPIRE SMEC PosPhdI#2FB(N) . SHD10	SMK.-	-	S284	021SS-38	31			CVVUCR	33	211121 P30	045	
020	SPIRE SMEC PosPhdI#3(N) . I+	SMJ.-	-	S285	021SS-38	29		Cable S281, 283,285 Shd con together (B)	CVVUCR	33	211121 P30	020	
021	SPIRE SMEC PosPhdI#3(N) . I-	SMJ.-	-	S285	021SS-38	29			CVVUCR	33	211121 P30	021	
031	SPIRE SMEC PosPhdI#3(N) . SHD08	SMJ.-	-	S285	021SS-38	29			CVVUCR	33	211121 P30	031	
058	SPIRE SMEC PosPhdI#3FB(N) . S	SMK.-	-	S286	021SS-38	32		Cable S281, 283,285 Shd con together (B)	CVVUCR	33	211121 P30	058	
057	SPIRE SMEC PosPhdI#3FB(N) . R	SMK.-	-	S286	021SS-38	32			CVVUCR	33	211121 P30	057	

# Pin Allocation List (Harness)

**Connector:** 312300 J04

**Item:** HSSVMCB3

**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 11)

**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P

**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
046	SPIRE SMEC PosPhd#3FB(N) . SHD11	SMK.-	-	S286	021SS-38	32		Cable S282, 284, 286 Shd con together (C)	CVVUCR	33	211121 P30	046	
006	SPIRE FPU SMEC Contr. Faraday . SFF	SFF.-	-	S301	010B0-30			Cable P29 Faraday Shd con to Busbar ECR0039tbc	CVVUCR	33	211121 P30	006	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
006	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
035	Faraday Pins							Connected to Busbar ECR0039tbc					
047	Faraday Pins							Connected to Busbar ECR0039tbc					
070	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
104	Faraday Pins							Connected to Busbar ECR0039tbc					
107	Faraday Pins							Connected to Busbar ECR0039tbc					
109	Faraday Pins							Connected to Busbar ECR0039tbc					
110	Faraday Pins							Connected to Busbar ECR0039tbc					
122	Faraday Pins							Connected to Busbar ECR0039tbc					
123	Faraday Pins							Connected to Busbar ECR0039tbc					
124	Faraday Pins							Connected to Busbar ECR0039tbc					
125	Faraday Pins							Connected to Busbar ECR0039tbc					
126	Faraday Pins							Connected to Busbar ECR0039tbc					

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# Pin Allocation List (Harness)

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Connector: 312300 J04

Item: HSSVMCB3

EMC-Category: 2/Sig H fr CVVFT to SVMCB

Function: SPIRE SVM CB3 (SPIRE Bundle 11)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
-	-												
-	-												
-	-												
-	-												
-	-												
CH	Connector Housing												
-	Insulating Jacket							CH isolated from Faraday Shd Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd							Bundle Overall Shd connected to Backshell					







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 For wiring schematic see SH-1s-A2 CVVUCR P 33

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Connector: 312300 J05

Conn.-Type: SCC340104401B032435P

Item: HSSVMCB3

Backshell: 440 FS 110 M 24 32

EMC-Category: 2/Sig H fr CWFT to SVMCB

Function: SPIRE SVM CB3 (SPIRE Bundle 12)  
 Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
029	SPIRE SorptPumpTemp(R) . I+	S3E.-	-	S287	041SS-38	1			CVVUCR	33	211121 P33	029	
041	SPIRE SorptPumpTemp(R) . V+	S3E.-	-	S287	041SS-38	1			CVVUCR	33	211121 P33	041	
042	SPIRE SorptPumpTemp(R) . V-	S3E.-	-	S287	041SS-38	1			CVVUCR	33	211121 P33	042	
030	SPIRE SorptPumpTemp(R) . I-	S3E.-	-	S287	041SS-38	1			CVVUCR	33	211121 P33	030	
031	SPIRE SorptPumpTemp(R) . SHD01	S3E.-	-	S287	041SS-38	1		Cable S287 to S291 Shd con together	CVVUCR	33	211121 P33	031	
077	SPIRE EvaporatorTemp(R) . I+	S3E.-	-	S288	041SS-38	2			CVVUCR	33	211121 P33	077	
066	SPIRE EvaporatorTemp(R) . V+	S3E.-	-	S288	041SS-38	2			CVVUCR	33	211121 P33	066	
065	SPIRE EvaporatorTemp(R) . V-	S3E.-	-	S288	041SS-38	2			CVVUCR	33	211121 P33	065	
076	SPIRE EvaporatorTemp(R) . I-	S3E.-	-	S288	041SS-38	2			CVVUCR	33	211121 P33	076	
054	SPIRE EvaporatorTemp(R) . SHD02	S3E.-	-	S288	041SS-38	2		Cable S287 to S291 Shd con together	CVVUCR	33	211121 P33	054	
053	SPIRE SorptPumpSwTemp(R) . I+	S3E.-	-	S289	041SS-38	3			CVVUCR	33	211121 P33	053	
064	SPIRE SorptPumpSwTemp(R) . V+	S3E.-	-	S289	041SS-38	3			CVVUCR	33	211121 P33	064	
063	SPIRE SorptPumpSwTemp(R) . V-	S3E.-	-	S289	041SS-38	3			CVVUCR	33	211121 P33	063	
052	SPIRE SorptPumpSwTemp(R) . I-	S3E.-	-	S289	041SS-38	3			CVVUCR	33	211121 P33	052	
075	SPIRE SorptPumpSwTemp(R) . SHD03	S3E.-	-	S289	041SS-38	3		Cable S287 to S291 Shd con together	CVVUCR	33	211121 P33	075	
050	SPIRE EvaporSwTemp(R) . I+	S3E.-	-	S290	041SS-38	4			CVVUCR	33	211121 P33	050	
062	SPIRE EvaporSwTemp(R) . V+	S3E.-	-	S290	041SS-38	4			CVVUCR	33	211121 P33	062	
051	SPIRE EvaporSwTemp(R) . V-	S3E.-	-	S290	041SS-38	4			CVVUCR	33	211121 P33	051	
061	SPIRE EvaporSwTemp(R) . I-	S3E.-	-	S290	041SS-38	4			CVVUCR	33	211121 P33	061	
039	SPIRE EvaporSwTemp(R) . SHD04	S3E.-	-	S290	041SS-38	4		Cable S287 to S291 Shd con together	CVVUCR	33	211121 P33	039	
011	SPIRE ThermShuntTemp(R) . I+A	S3E.-	-	S291	041SS-38	5			CVVUCR	33	211121 P33	011	
019	SPIRE ThermShuntTemp(R) . V+B	S3E.-	-	S291	041SS-38	5			CVVUCR	33	211121 P33	019	
018	SPIRE ThermShuntTemp(R) . V-A	S3E.-	-	S291	041SS-38	5			CVVUCR	33	211121 P33	018	
010	SPIRE ThermShuntTemp(R) . I-B	S3E.-	-	S291	041SS-38	5			CVVUCR	33	211121 P33	010	
020	SPIRE ThermShuntTemp(R) . SHD05	S3E.-	-	S291	041SS-38	5		Cable S287 to S291 Shd con together	CVVUCR	33	211121 P33	020	
006	SPIRE SorptPumpHtr(R) . I+A	S3F.-	-	S292	040B0-30				CVVUCR	33	211121 P33	006	
013	SPIRE SorptPumpHtr(R) . I+B	S3F.-	-	S292	040B0-30				CVVUCR	33	211121 P33	013	
005	SPIRE SorptPumpHtr(R) . I-A	S3F.-	-	S292	040B0-30				CVVUCR	33	211121 P33	005	
012	SPIRE SorptPumpHtr(R) . I-B	S3F.-	-	S292	040B0-30				CVVUCR	33	211121 P33	012	

**Pin Allocation List**  
(Harness)**Connector:** 312300 J05**Item:** HSSVMCB3**EMC-Category:** 2/Sig H fr CWFT to SVMCB**Function:** SPIRE SVM CB3 (SPIRE Bundle 12)**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)**Conn.-Type:** SCC340104401B032435P**Backshell:** 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
022	SPIRE SorptPumpSwHtr(R) . I+A	S3F.-	-	S293	040B0-30				CVVUCR	33	211121 P33	022	
033	SPIRE SorptPumpSwHtr(R) . I+B	S3F.-	-	S293	040B0-30				CVVUCR	33	211121 P33	033	
021	SPIRE SorptPumpSwHtr(R) . I-A	S3F.-	-	S293	040B0-30				CVVUCR	33	211121 P33	021	
032	SPIRE SorptPumpSwHtr(R) . I-B	S3F.-	-	S293	040B0-30				CVVUCR	33	211121 P33	032	
055	SPIRE EvaporSwHtr(R) . I+A	S3F.-	-	S294	040B0-30				CVVUCR	33	211121 P33	055	
056	SPIRE EvaporSwHtr(R) . I+B	S3F.-	-	S294	040B0-30				CVVUCR	33	211121 P33	056	
043	SPIRE EvaporSwHtr(R) . I-A	S3F.-	-	S294	040B0-30				CVVUCR	33	211121 P33	043	
044	SPIRE EvaporSwHtr(R) . I-B	S3F.-	-	S294	040B0-30				CVVUCR	33	211121 P33	044	
004	SPIRE FPU FC 2 Faraday . SFF	SFF.-	-	S304	010B0-30			Cable P20 Faraday Shd con to Busbar tbc	CVVUCR	33	211121 P33	004	3. 3. 3.
111	SPIRE Spectr4%Temp (R) . I+	SCA.-	-	S295	041SS-38	9			CVVUCR	33	211121 P33	111	
120	SPIRE Spectr4%Temp (R) . V+	SCA.-	-	S295	041SS-38	9			CVVUCR	33	211121 P33	120	
128	SPIRE Spectr4%Temp (R) . V-	SCA.-	-	S295	041SS-38	9			CVVUCR	33	211121 P33	128	
112	SPIRE Spectr4%Temp (R) . I-	SCA.-	-	S295	041SS-38	9			CVVUCR	33	211121 P33	112	
121	SPIRE Spectr4%Temp (R) . SHD01	SCA.-	-	S295	041SS-38	9		Cable S295 to S297 Shd con together	CVVUCR	33	211121 P33	121	
091	SPIRE Spectr2%Temp (R) . I+	SCA.-	-	S296	041SS-38	10			CVVUCR	33	211121 P33	091	
092	SPIRE Spectr2%Temp (R) . V+	SCA.-	-	S296	041SS-38	10			CVVUCR	33	211121 P33	092	
081	SPIRE Spectr2%Temp (R) . V-	SCA.-	-	S296	041SS-38	10			CVVUCR	33	211121 P33	081	
080	SPIRE Spectr2%Temp (R) . I-	SCA.-	-	S296	041SS-38	10			CVVUCR	33	211121 P33	080	
093	SPIRE Spectr2%Temp (R) . SHD02	SCA.-	-	S296	041SS-38	10		Cable S295 to S297 Shd con together	CVVUCR	33	211121 P33	093	
114	SPIRE SpStimFlanTemp(R) . I+	SCA.-	-	S297	041SS-38	11			CVVUCR	33	211121 P33	114	
113	SPIRE SpStimFlanTemp(R) . V+	SCA.-	-	S297	041SS-38	11			CVVUCR	33	211121 P33	113	
103	SPIRE SpStimFlanTemp(R) . V-	SCA.-	-	S297	041SS-38	11			CVVUCR	33	211121 P33	103	
104	SPIRE SpStimFlanTemp(R) . I-	SCA.-	-	S297	041SS-38	11			CVVUCR	33	211121 P33	104	
102	SPIRE SpStimFlanTemp(R) . SHD03	SCA.-	-	S297	041SS-38	11		Cable S295 to S297 Shd con together	CVVUCR	33	211121 P33	102	
035	SPIRE Spectr4%Heater (R) . I+A	SCB.-	-	S298	040B0-30				CVVUCR	33	211121 P33	035	
024	SPIRE Spectr4%Heater (R) . I+B	SCB.-	-	S298	040B0-30				CVVUCR	33	211121 P33	024	

# Pin Allocation List (Harness)

**Connector:** 312300 J05  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 12)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
034	SPIRE Spectr4%Heater (R) . I-A	SCB.-	-	S298	040B0-30				CVVUCR	33	211121 P33	034	
023	SPIRE Spectr4%Heater (R) . I-B	SCB.-	-	S298	040B0-30				CVVUCR	33	211121 P33	023	
046	SPIRE Spectr2%Heater (R) . I+A	SCB.-	-	S299	040B0-30				CVVUCR	33	211121 P33	046	
058	SPIRE Spectr2%Heater (R) . I+B	SCB.-	-	S299	040B0-30				CVVUCR	33	211121 P33	058	
045	SPIRE Spectr2%Heater (R) . I-A	SCB.-	-	S299	040B0-30				CVVUCR	33	211121 P33	045	
057	SPIRE Spectr2%Heater (R) . I-B	SCB.-	-	S299	040B0-30				CVVUCR	33	211121 P33	057	
047	SPIRE FPU FSS2 Faraday . SFF	SFF.-	-	S303	010B0-30			Cable P22 Faraday Shd con to Busbar tbc	CVVUCR	33	211121 P33	047	3. 3. 3.
089	SPIRE FilterTemp(R) . I+	STA.-	-	S306	041SS-38	20			CVVUCR	33	211121 P33	089	
100	SPIRE FilterTemp(R) . V+	STA.-	-	S306	041SS-38	20			CVVUCR	33	211121 P33	100	
099	SPIRE FilterTemp(R) . V-	STA.-	-	S306	041SS-38	20			CVVUCR	33	211121 P33	099	
088	SPIRE FilterTemp(R) . I-	STA.-	-	S306	041SS-38	20			CVVUCR	33	211121 P33	088	
101	SPIRE FilterTemp(R) . SHD06	STA.-	-	S306	041SS-38	20		Cable S306 to S311Shd con together	CVVUCR	33	211121 P33	101	
118	SPIRE SpectDetBoxTemp(R) . I+	STA.-	-	S307	041SS-38	15			CVVUCR	33	211121 P33	118	
125	SPIRE SpectDetBoxTemp(R) . V+	STA.-	-	S307	041SS-38	15			CVVUCR	33	211121 P33	125	
126	SPIRE SpectDetBoxTemp(R) . V-	STA.-	-	S307	041SS-38	15			CVVUCR	33	211121 P33	126	
119	SPIRE SpectDetBoxTemp(R) . I-	STA.-	-	S307	041SS-38	15			CVVUCR	33	211121 P33	119	
110	SPIRE SpectDetBoxTemp(R) . SHD01	STA.-	-	S307	041SS-38	15		Cable S306 to S311Shd con together	CVVUCR	33	211121 P33	110	
123	SPIRE PhotomDetBoxTmp(R) . I+	STA.-	-	S308	041SS-38	16			CVVUCR	33	211121 P33	123	
116	SPIRE PhotomDetBoxTmp(R) . V+	STA.-	-	S308	041SS-38	16			CVVUCR	33	211121 P33	116	
117	SPIRE PhotomDetBoxTmp(R) . V-	STA.-	-	S308	041SS-38	16			CVVUCR	33	211121 P33	117	
124	SPIRE PhotomDetBoxTmp(R) . I-	STA.-	-	S308	041SS-38	16			CVVUCR	33	211121 P33	124	
108	SPIRE PhotomDetBoxTmp(R) . SHD02	STA.-	-	S308	041SS-38	16		Cable S306 to S311Shd con together	CVVUCR	33	211121 P33	108	
106	SPIRE OptSubbenchTmp(R) . I+	STA.-	-	S309	041SS-38	17			CVVUCR	33	211121 P33	106	
107	SPIRE OptSubbenchTmp(R) . V+	STA.-	-	S309	041SS-38	17			CVVUCR	33	211121 P33	107	
122	SPIRE OptSubbenchTmp(R) . V-	STA.-	-	S309	041SS-38	17			CVVUCR	33	211121 P33	122	
115	SPIRE OptSubbenchTmp(R) . I-	STA.-	-	S309	041SS-38	17			CVVUCR	33	211121 P33	115	
105	SPIRE OptSubbenchTmp(R) . SHD03	STA.-	-	S309	041SS-38	17		Cable S306 to S311Shd con together	CVVUCR	33	211121 P33	105	

# Astrium GmbH

Project: **HERSCHEL**

# Pin Allocation List (Harness)

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Connector: 312300 J05

Item: HSSVMCB3

EMC-Category: 2/Sig H fr CWWFT to SVMCB

Function: SPIRE SVM CB3 (SPIRE Bundle 12)

Location: 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

Conn.-Type: SCC340104401B032435P

Backshell: 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
097	SPIRE FPUInpBaffleTmp(R) . I+	STA-	-	S310	041SS-38	18			CVVUCR	33	211121 P33	097	
086	SPIRE FPUInpBaffleTmp(R) . V+	STA-	-	S310	041SS-38	18			CVVUCR	33	211121 P33	086	
087	SPIRE FPUInpBaffleTmp(R) . V-	STA-	-	S310	041SS-38	18			CVVUCR	33	211121 P33	087	
098	SPIRE FPUInpBaffleTmp(R) . I-	STA-	-	S310	041SS-38	18			CVVUCR	33	211121 P33	098	
109	SPIRE FPUInpBaffleTmp(R) . SHD04	STA-	-	S310	041SS-38	18		Cable S306 to S311Shd con together	CVVUCR	33	211121 P33	109	
073	SPIRE BSM/SOB I/FTmp(R) . I+	STA-	-	S311	041SS-38	19			CVVUCR	33	211121 P33	073	
074	SPIRE BSM/SOB I/FTmp(R) . V+	STA-	-	S311	041SS-38	19			CVVUCR	33	211121 P33	074	
085	SPIRE BSM/SOB I/FTmp(R) . V-	STA-	-	S311	041SS-38	19			CVVUCR	33	211121 P33	085	
084	SPIRE BSM/SOB I/FTmp(R) . I-	STA-	-	S311	041SS-38	19			CVVUCR	33	211121 P33	084	
096	SPIRE BSM/SOB I/FTmp(R) . SHD05	STA-	-	S311	041SS-38	19		Cable S306 to S311Shd con together	CVVUCR	33	211121 P33	096	
079	SPIRE PTC Htr(R) . I+A	STB-	-	S312	041BS-30	21			CVVUCR	33	211121 P33	079	
078	SPIRE PTC Htr(R) . I+B	STB-	-	S312	041BS-30	21			CVVUCR	33	211121 P33	078	
068	SPIRE PTC Htr(R) . I-A	STB-	-	S312	041BS-30	21			CVVUCR	33	211121 P33	068	
067	SPIRE PTC Htr(R) . I-B	STB-	-	S312	041BS-30	21			CVVUCR	33	211121 P33	067	
090	SPIRE PTC Htr(R) . SHD07	STB-	-	S312	041BS-30	21		Cable S312 Shd	CVVUCR	33	211121 P33	090	
094	SPIRE FPU FT Faraday . SFF	SFF-	-	S302	010B0-30			Cable P24 Faraday Shd con to Busbar tbc	CVVUCR	33	211121 P33	094	3. 3. 3.
001	Faraday Pins							Connected to Busbar ECR0039tbc					
002	Faraday Pins							Connected to Busbar ECR0039tbc					
003	Faraday Pins							Connected to Busbar ECR0039tbc					
004	Faraday Pins							Connected to Busbar ECR0039tbc					
007	Faraday Pins							Connected to Busbar ECR0039tbc					
008	Faraday Pins							Connected to Busbar ECR0039tbc					
014	Faraday Pins							Connected to Busbar ECR0039tbc					

**Astrium GmbH**  
 Project: **HERSCHEL**

# Pin Allocation List (Harness)

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**Connector:** 312300 J05  
**Item:** HSSVMCB3  
**EMC-Category:** 2I/Sig H fr CWWFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 12)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 32

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
015	Faraday Pins							Connected to Busbar ECR0039tbc					
025	Faraday Pins							Connected to Busbar ECR0039tbc					
036	Faraday Pins							Connected to Busbar ECR0039tbc					
047	Faraday Pins							Connected to Busbar ECR0039tbc					
059	Faraday Pins							Connected to Busbar ECR0039tbc					
070	Faraday Pins							Connected to Busbar ECR0039tbc					
082	Faraday Pins							Connected to Busbar ECR0039tbc					
094	Faraday Pins							Connected to Busbar ECR0039tbc					
127	Faraday Pins							Connected to Busbar ECR0039tbc					
-	-												
CH	Connector Housing							CH isolated from Faraday Shd					
-	Insulating Jacket							Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd							Bundle Overall Shd con to Backshell					





**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List

(Harness)

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For wiring schematic  
 see SH-15-13; CVVUCR R2g

**Connector:** 312300 J03  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 13)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Shd	Cable	Twist	Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal											
051	SPIRE ChopSensor1&2(R) . 1	SBA.-	-	S313	021SS-38	1				CVVUCR	33	211121 P29	051	
040	SPIRE ChopSensor1&2(R) . 2	SBA.-	-	S313	021SS-38	1			Cable S313 to 316 Shd con together	CVVUCR	33	211121 P29	040	
039	SPIRE ChopSensor1&2(R) . SHD01	SBA.-	-	S313	021SS-38	1				CVVUCR	33	211121 P29	039	
028	SPIRE ChopSensor3-5(R) . 3	SBB.-	-	S314	031BS-38	2				CVVUCR	33	211121 P29	028	
017	SPIRE ChopSensor3-5(R) . 4	SBB.-	-	S314	031BS-38	2			CVVUCR	33	211121 P29	017		
016	SPIRE ChopSensor3-5(R) . 5	SBB.-	-	S314	031BS-38	2			CVVUCR	33	211121 P29	016		
027	SPIRE ChopSensor3-5(R) . SHD03	SBB.-	-	S314	031BS-38	2			Cable S313 to 316 Shd con together	CVVUCR	33	211121 P29	027	
049	SPIRE JiggleSensor1&2(R) . 1	SBA.-	-	S315	021SS-38	3				CVVUCR	33	211121 P29	049	
050	SPIRE JiggleSensor1&2(R) . 2	SBA.-	-	S315	021SS-38	3				CVVUCR	33	211121 P29	050	
038	SPIRE JiggleSensor1&2(R) . SHD02	SBA.-	-	S315	021SS-38	3			Cable S313 to 316 Shd con together	CVVUCR	33	211121 P29	038	
015	SPIRE JiggleSensor3-5(R) . 3	SBB.-	-	S316	031BS-38	4				CVVUCR	33	211121 P29	015	
025	SPIRE JiggleSensor3-5(R) . 4	SBB.-	-	S316	031BS-38	4				CVVUCR	33	211121 P29	025	
037	SPIRE JiggleSensor3-5(R) . 5	SBB.-	-	S316	031BS-38	4			Cable S313 to 316 Shd con together	CVVUCR	33	211121 P29	037	
026	SPIRE JiggleSensor3-5(R) . SHD04	SBB.-	-	S316	031BS-38	4				CVVUCR	33	211121 P29	026	
086	SPIRE BSMTemp(R) . I+	SBC.-	-	S317	041SS-38	5				CVVUCR	33	211121 P29	086	
097	SPIRE BSMTemp(R) . V+	SBC.-	-	S317	041SS-38	5			CVVUCR	33	211121 P29	097		
098	SPIRE BSMTemp(R) . V-	SBC.-	-	S317	041SS-38	5			CVVUCR	33	211121 P29	098		
087	SPIRE BSMTemp(R) . I-	SBC.-	-	S317	041SS-38	5			Cable S317 Shd	CVVUCR	33	211121 P29	087	
075	SPIRE BSMTemp(R) . SHD05	SBC.-	-	S317	041SS-38	5				CVVUCR	33	211121 P29	075	
048	SPIRE P-Cal Htr (R) . I+A	SBD.-	-	S318	041BS-30	6				CVVUCR	33	211121 P29	048	
071	SPIRE P-Cal Htr (R) . I+B	SBD.-	-	S318	041BS-30	6			CVVUCR	33	211121 P29	071		
060	SPIRE P-Cal Htr (R) . I-A	SBD.-	-	S318	041BS-30	6			CVVUCR	33	211121 P29	060		
059	SPIRE P-Cal Htr (R) . I-B	SBD.-	-	S318	041BS-30	6			CVVUCR	33	211121 P29	059		
036	SPIRE P-Cal Htr (R) . SHD06	SBD.-	-	S318	041BS-30	6			Cable S318 Shd	CVVUCR	33	211121 P29	036	
108	SPIRE BSMChLchConf(R) . 1	SBE.-	-	S319	021SS-38	7				CVVUCR	33	211121 P29	108	
116	SPIRE BSMChLchConf(R) . 2	SBE.-	-	S319	021SS-38	7				CVVUCR	33	211121 P29	116	
107	SPIRE BSMChLchConf(R) . SHD07	SBE.-	-	S319	021SS-38	7			Cable S319 Shd	CVVUCR	33	211121 P29	107	
105	SPIRE BSMLatchDrive(R) . SUP	SBF.-	-	S320	021BS-30	8				CVVUCR	33	211121 P29	105	



# Pin Allocation List (Harness)

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**Connector:** 312300 J03  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CWFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 13)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
115	SPIRE BSMLatchDrive(R) . RTN	SBF.-	-	S320	021BS-30	8			CVVUCR	33	211121 P29	115	
106	SPIRE BSMLatchDrive(R) . SHD08	SBF.-	-	S320	021BS-30	8		Cable S320 Shd	CVVUCR	33	211121 P29	106	
072	SPIRE ChopMotDrive(R) . 1	SBG.-	-	S321	041BS-30	9			CVVUCR	33	211121 P29	072	
061	SPIRE ChopMotDrive(R) . 2	SBG.-	-	S321	041BS-30	9			CVVUCR	33	211121 P29	061	
062	SPIRE ChopMotDrive(R) . 3	SBG.-	-	S321	041BS-30	9			CVVUCR	33	211121 P29	062	
074	SPIRE ChopMotDrive(R) . 4	SBG.-	-	S321	041BS-30	9			CVVUCR	33	211121 P29	074	
073	SPIRE ChopMotDrive(R) . SHD09	SBG.-	-	S321	041BS-30	9		Cable S321, 322 Shd con together	CVVUCR	33	211121 P29	073	
083	SPIRE JiggleMotDrive(R) . 1	SBG.-	-	S322	041BS-30	10			CVVUCR	33	211121 P29	083	
095	SPIRE JiggleMotDrive(R) . 2	SBG.-	-	S322	041BS-30	10			CVVUCR	33	211121 P29	095	
096	SPIRE JiggleMotDrive(R) . 3	SBG.-	-	S322	041BS-30	10			CVVUCR	33	211121 P29	096	
085	SPIRE JiggleMotDrive(R) . 4	SBG.-	-	S322	041BS-30	10			CVVUCR	33	211121 P29	085	
084	SPIRE JiggleMotDrive(R) . SHD10	SBG.-	-	S322	041BS-30	10		Cable S321, 322 Shd con together	CVVUCR	33	211121 P29	084	
082	SPIRE FPU BSM PS Faraday . SFF	SFF.-	-	S305	010B0-30			Cable P26 Faraday Shd con to Busbar ECR0039tbc	CVVUCR	33	211121 P29	082	3. 3. 3.
117	SPIRE SMECLLch#1Conf(R) . 1+	SME.-	-	S323	021BS-30	11			CVVUCR	33	211121 P29	117	
118	SPIRE SMECLLch#1Conf(R) . 1-	SME.-	-	S323	021BS-30	11			CVVUCR	33	211121 P29	118	
109	SPIRE SMECLLch#1Conf(R) . SHD06	SME.-	-	S323	021BS-30	11		Cable S323, 324 Shd con together (A)	CVVUCR	33	211121 P29	109	
111	SPIRE SMECLLch#2Conf(R) . 2+	SME.-	-	S324	021BS-30	12			CVVUCR	33	211121 P29	111	
119	SPIRE SMECLLch#2Conf(R) . 2-	SME.-	-	S324	021BS-30	12			CVVUCR	33	211121 P29	119	
110	SPIRE SMECLLch#2Conf(R) . SHD07	SME.-	-	S324	021BS-30	12		Cable S323, 324 Shd con together (A)	CVVUCR	33	211121 P29	110	
067	SPIRE SMECLL#1Pwr1/A(R) . S1	SMF.-	-	S325	021BS-30	13			CVVUCR	33	211121 P29	067	
066	SPIRE SMECLL#1Pwr1/A(R) . R1	SMF.-	-	S325	021BS-30	13			CVVUCR	33	211121 P29	066	
078	SPIRE SMECLL#1Pwr1/A(R) . SHD08	SMF.-	-	S325	021BS-30	13		Cable S325 to 328 Shd con together (B)	CVVUCR	33	211121 P29	078	
069	SPIRE SMECLL#1Pwr2/B(R) . S2	SMF.-	-	S326	021BS-30	14			CVVUCR	33	211121 P29	069	
068	SPIRE SMECLL#1Pwr2/B(R) . R2	SMF.-	-	S326	021BS-30	14			CVVUCR	33	211121 P29	068	
080	SPIRE SMECLL#1Pwr2/B(R) . SHD09	SMF.-	-	S326	021BS-30	14		Cable S325 to 328 Shd con together (B)	CVVUCR	33	211121 P29	080	

**Astrium GmbH**  
**Project: HERSCHEL**

# Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 312300 J03  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 13)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SP/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Pos.	Shd						
090	SPIRE SMECLL#2Pwr1/A(R) . S1	SMF.-	-	S327	021BS-30	15			CVVUCR	33	211121 P29	090	
091	SPIRE SMECLL#2Pwr1/A(R) . R1	SMF.-	-	S327	021BS-30	15			CVVUCR	33	211121 P29	091	
079	SPIRE SMECLL#2Pwr1/A(R) . SHD10	SMF.-	-	S327	021BS-30	15		Cable S325 to 328 Shd con together (B)	CVVUCR	33	211121 P29	079	
092	SPIRE SMECLL#2Pwr2/B(R) . S2	SMF.-	-	S328	021BS-30	16			CVVUCR	33	211121 P29	092	
093	SPIRE SMECLL#2Pwr2/B(R) . R2	SMF.-	-	S328	021BS-30	16			CVVUCR	33	211121 P29	093	
081	SPIRE SMECLL#2Pwr2/B(R) . SHD11	SMF.-	-	S328	021BS-30	16		Cable S325 to 328 Shd con together (B)	CVVUCR	33	211121 P29	081	
088	SPIRE SMECTemp(R) . I+	SMC.-	-	S329	041SS-38	17			CVVUCR	33	211121 P29	088	
099	SPIRE SMECTemp(R) . V+	SMC.-	-	S329	041SS-38	17			CVVUCR	33	211121 P29	099	
100	SPIRE SMECTemp(R) . V-	SMC.-	-	S329	041SS-38	17			CVVUCR	33	211121 P29	100	
089	SPIRE SMECTemp(R) . I-	SMC.-	-	S329	041SS-38	17			CVVUCR	33	211121 P29	089	
077	SPIRE SMECTemp(R) . SHD04	SMC.-	-	S329	041SS-38	17		Cable S329, 330 Shd con together (C)	CVVUCR	33	211121 P29	077	
054	SPIRE SMEC/SOB I/FTmp(R) (#13) . I+	SMC.-	-	S330	041SS-38	18			CVVUCR	33	211121 P29	054	
065	SPIRE SMEC/SOB I/FTmp(R) (#13) . V+	SMC.-	-	S330	041SS-38	18			CVVUCR	33	211121 P29	065	
064	SPIRE SMEC/SOB I/FTmp(R) (#13) . V-	SMC.-	-	S330	041SS-38	18			CVVUCR	33	211121 P29	064	
053	SPIRE SMEC/SOB I/FTmp(R) (#13) . I-	SMC.-	-	S330	041SS-38	18			CVVUCR	33	211121 P29	053	
076	SPIRE SMEC/SOB I/FTmp(R) (#13) . SHD05	SMC.-	-	S330	041SS-38	18		Cable S329, 330 Shd con together (C)	CVVUCR	33	211121 P29	076	
101	SPIRE SMECLVDTPrICPw(R) . P	SMA.-	-	S331	021BS-30	19			CVVUCR	33	211121 P29	101	
102	SPIRE SMECLVDTPrICPw(R) . N	SMA.-	-	S331	021BS-30	19			CVVUCR	33	211121 P29	102	
112	SPIRE SMECLVDTPrICPw(R) . SHD01	SMA.-	-	S331	021BS-30	19		Cable S331 to 333 Shd con together (D)	CVVUCR	33	211121 P29	112	
127	SPIRE SMECLVDTSCI#1Sg(R) . P	SMB.-	-	S332	021BS-30	20			CVVUCR	33	211121 P29	127	
120	SPIRE SMECLVDTSCI#1Sg(R) . N	SMB.-	-	S332	021BS-30	20			CVVUCR	33	211121 P29	120	
128	SPIRE SMECLVDTSCI#1Sg(R) . SHD02	SMB.-	-	S332	021BS-30	20		Cable S331 to 333 Shd con together (D)	CVVUCR	33	211121 P29	128	
114	SPIRE SMECLVDTSCI#2Sg(R) . P	SMB.-	-	S333	021BS-30	21			CVVUCR	33	211121 P29	114	
113	SPIRE SMECLVDTSCI#2Sg(R) . N	SMB.-	-	S333	021BS-30	21			CVVUCR	33	211121 P29	113	

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## Pin Allocation List (Harness)

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**Connector:** 312300 J03  
**Item:** HSSVMCB3  
**EMC-Category:** 2I/Sig H fr CWVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 13)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code		Ch. ID	Wiring	Grouping:		Comment	Target-Item	Location	Connector	Pin	New
		Circuit	Signal			Shd	Cable Twist						
121	SPIRE SMECLVDTSCI#2Sg(R) . SHD03	SMB.-	-	S333	021BS-30	21		Cable S331 to 333 Shd con together (D)	CVUUCR	33	211121 P29	121	
104	SPIRE FPU SMEC LR Faraday . SFF	SFF.-	-	S351	010B0-30			Cable P28 Faraday Shd con to Busbar ECR0039tbc	CVUUCR	33	211121 P29	104	3. 3. 3.
-	-	-	-	-	-	-	-	-	-	-	-	-	-
012	SPIRE SMEC Drv Coil (R) . I+	SMD.-	-	S334	021BS-30	22			CVUUCR	33	211121 P29	012	
005	SPIRE SMEC Drv Coil (R) . I-	SMD.-	-	S334	021BS-30	22			CVUUCR	33	211121 P29	005	
013	SPIRE SMEC Drv Coil (R) . SHD01	SMD.-	-	S334	021BS-30	22		Cable S334,335 con together (A)	CVUUCR	33	211121 P29	013	
-	-	-	-	-	-	-	-	-	-	-	-	-	-
022	SPIRE SMEC Drv Coil (Rob) (R) . I+	SMD.-	-	S335	021BS-30	23			CVUUCR	33	211121 P29	022	
007	SPIRE SMEC Drv Coil (Rob) (R) . I-	SMD.-	-	S335	021BS-30	23			CVUUCR	33	211121 P29	007	
013	SPIRE SMEC Drv Coil (Rob) (R) . SHD02	SMD.-	-	S335	021BS-30	23		Cable S334,335 con together (A)	CVUUCR	33	211121 P29	013	
-	-	-	-	-	-	-	-	-	-	-	-	-	-
014	SPIRE SMEC Drv Sense (R) . Sen+	SMG.-	-	S336	021BS-38	24			CVUUCR	33	211121 P29	014	
024	SPIRE SMEC Drv Sense (R) . Sen-	SMG.-	-	S336	021BS-38	24			CVUUCR	33	211121 P29	024	
023	SPIRE SMEC Drv Sense (R) . SHD03	SMG.-	-	S336	021BS-38	24		Cable S336 Shd	CVUUCR	33	211121 P29	023	
-	-	-	-	-	-	-	-	-	-	-	-	-	-
009	SPIRE SMEC PosSelLEDPwr(R) . S	SMH.-	-	S337	021BS-38	25			CVUUCR	33	211121 P29	009	
002	SPIRE SMEC PosSelLEDPwr(R) . R	SMH.-	-	S337	021BS-38	25			CVUUCR	33	211121 P29	002	
003	SPIRE SMEC PosSelLEDPwr(R) . SHD04	SMH.-	-	S337	021BS-38	25		Cable S337 Shd	CVUUCR	33	211121 P29	003	
-	-	-	-	-	-	-	-	-	-	-	-	-	-
011	SPIRE SMEC PosSensPwr(R) . S	SMH.-	-	S338	021BS-38	26			CVUUCR	33	211121 P29	011	
004	SPIRE SMEC PosSensPwr(R) . R	SMH.-	-	S338	021BS-38	26			CVUUCR	33	211121 P29	004	
010	SPIRE SMEC PosSensPwr(R) . SHD05	SMH.-	-	S338	021BS-38	26		Cable S338 Shd	CVUUCR	33	211121 P29	010	
-	-	-	-	-	-	-	-	-	-	-	-	-	-
018	SPIRE SMEC PosPhD#1(R) . I+	SMJ.-	-	S339	021SS-38	27			CVUUCR	33	211121 P29	018	
019	SPIRE SMEC PosPhD#1(R) . I-	SMJ.-	-	S339	021SS-38	27			CVUUCR	33	211121 P29	019	
029	SPIRE SMEC PosPhD#1(R) . SHD06	SMJ.-	-	S339	021SS-38	27		Cable S339, 341, 343 Shd con together (B)	CVUUCR	33	211121 P29	029	
-	-	-	-	-	-	-	-	-	-	-	-	-	-
056	SPIRE SMEC PosPhD#1FB(R) . S	SMK.-	-	S340	021SS-38	30			CVUUCR	33	211121 P29	056	
055	SPIRE SMEC PosPhD#1FB(R) . R	SMK.-	-	S340	021SS-38	30			CVUUCR	33	211121 P29	055	
044	SPIRE SMEC PosPhD#1FB(R) . SHD09	SMK.-	-	S340	021SS-38	30		Cable S340, 342, 344 Shd con together (C)	CVUUCR	33	211121 P29	044	
-	-	-	-	-	-	-	-	-	-	-	-	-	-
042	SPIRE SMEC PosPhD#2(R) . I+	SMJ.-	-	S341	021SS-38	28			CVUUCR	33	211121 P29	042	
041	SPIRE SMEC PosPhD#2(R) . I-	SMJ.-	-	S341	021SS-38	28			CVUUCR	33	211121 P29	041	

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## Pin Allocation List (Harness)

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**Connector:** 312300 J03  
**Item:** HSSVMCB3  
**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 13)  
**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P  
**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Shd	Cable	Twist	Grouping:	Comment	Target-Item	Location	Connector	Pin	New
030	SPIRE SMEC PosPhD#2(R) . SHD07	SMJ.- -	S341	021SS-38	28				Cable S339, 341, 343 Shd con together (B)	CVVUCR	33	211121 P29	030	
034	SPIRE SMEC PosPhD#2FB(R) . S	SMK.- -	S342	021SS-38	31					CVVUCR	33	211121 P29	034	
033	SPIRE SMEC PosPhD#2FB(R) . R	SMK.- -	S342	021SS-38	31					CVVUCR	33	211121 P29	033	
045	SPIRE SMEC PosPhD#2FB(R) . SHD10	SMK.- -	S342	021SS-38	31				Cable S340, 342, 344 Shd con together (C)	CVVUCR	33	211121 P29	045	
020	SPIRE SMEC PosPhD#3(R) . I+	SMJ.- -	S343	021SS-38	29					CVVUCR	33	211121 P29	020	
021	SPIRE SMEC PosPhD#3(R) . I-	SMJ.- -	S343	021SS-38	29					CVVUCR	33	211121 P29	021	
031	SPIRE SMEC PosPhD#3(R) . SHD08	SMJ.- -	S343	021SS-38	29				Cable S339, 341, 343 Shd con together (B)	CVVUCR	33	211121 P29	031	
058	SPIRE SMEC PosPhD#3FB(R) . S	SMK.- -	S344	021SS-38	32					CVVUCR	33	211121 P29	058	
057	SPIRE SMEC PosPhD#3FB(R) . R	SMK.- -	S344	021SS-38	32					CVVUCR	33	211121 P29	057	
046	SPIRE SMEC PosPhD#3FB(R) . SHD11	SMK.- -	S344	021SS-38	32				Cable S340, 342, 344 Shd con together (C)	CVVUCR	33	211121 P29	046	
006	SPIRE FPU SMEC CR Faraday . SFF	SFF.- -	S352	010B0-30					Cable P30 Faraday Shd con to Busbar ECR0039tbc	CVVUCR	33	211121 P29	006	3. 3. 3.
001	Faraday Pins								Connected to Busbar ECR0039tbc					
006	Faraday Pins								Connected to Busbar ECR0039tbc					
008	Faraday Pins								Connected to Busbar ECR0039tbc					
035	Faraday Pins								Connected to Busbar ECR0039tbc					
047	Faraday Pins								Connected to Busbar ECR0039tbc					
070	Faraday Pins								Connected to Busbar ECR0039tbc					
082	Faraday Pins								Connected to Busbar ECR0039tbc					
094	Faraday Pins								Connected to Busbar ECR0039tbc					
104	Faraday Pins								Connected to Busbar ECR0039tbc					
107	Faraday Pins								Connected to Busbar ECR0039tbc					

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## Pin Allocation List (Harness)

Doc.No.: HP-2-ASED-IC-0016  
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**Connector:** 312300 J03

**Item:** HSSVMCB3

**EMC-Category:** 2/Sig H fr CVVFT to SVMCB

**Function:** SPIRE SVM CB3 (SPIRE Bundle 13)

**Location:** 27 / I/F CB ab. SVM Panel 7 (SPI/CCU CB)

**Conn.-Type:** SCC340104401B032435P

**Backshell:** 440 FS 110 M 24 03

Pin	Signal Designation	Interface-Code Circuit Signal Pos.	Ch. ID	Wiring	Grouping: Shd Cable Twist	Comment	Target-Item	Location	Connector	Pin	New
109	Faraday Pins					Connected to Busbar ECR0039tbc					
110	Faraday Pins					Connected to Busbar ECR0039tbc					
122	Faraday Pins					Connected to Busbar ECR0039tbc					
123	Faraday Pins					Connected to Busbar ECR0039tbc					
124	Faraday Pins					Connected to Busbar ECR0039tbc					
125	Faraday Pins					Connected to Busbar ECR0039tbc					
126	Faraday Pins					Connected to Busbar ECR0039tbc					
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
-	NC										
CH	Connector Housing										
-	Insulating Jacket					CH isolated from Faraday Shd Insulating Jacket between Bundle Overall Shd and Faraday Shd					
-	Bundle Overall Shd					Bundle Overall Shd con to Backshell					



END OF DOCUMENT

	Name	Dep./Comp.		Name	Dep./Comp.
	Alberti von Mathias Dr.	AOE22	X	Stritter Rene	AED11
	Alo Hakan	OTN/TP 45		Tenhaeff Dieter	AOE22
X	Barlage Bernhard	AED11		Thörmer Klaus-Horst Dr.	OTN/AED65
X	Bayer Thomas	AET52		Wagner Klaus	AOE23
X	Faas Horst	AEA65	X	Wietbrock, Walter	AET12
	Fehringer Alexander	AOE13		Wöhler Hans	AOE22
	Frey Albrecht	AED422			
X	Gerner Willi	AED11			
	Grasl Andreas	OTN/AET52			
	Grasshoff Brigitte	AET12	X	Alcatel	ASP
	Hauser Armin	AOE23	X	ESA/ESTEC	ESA
	Hinger Jürgen	AOE23			
X	Hohn Rüdiger	AET52		<b>Instruments:</b>	
	Huber Johann	AOA4		MPE (PACS)	MPE
X	Hund Walter	ASE4A	X	RAL (SPIRE)	RAL
X	Idler Siegmund	AED432		SRON (HIFI)	SRON
	Ivány von András	FAE22			
	Jahn Gerd Dr.	AOE23		<b>Subcontractors:</b>	
X	Kalde Clemens	APE3		Air Liquide, Space Department	AIR
	Kameter Rudolf	OTN/AET52		Air Liquide, Space Department	AIRS
	Kettner Bernhard	AOE22		Air Liquide, Orbital System	AIRT
X	Knoblauch August	AET32		Alcatel Bell Space	ABSP
X	Koelle Markus	AET22		Astrium Sub-Subsyst. & Equipment	ASSE
X	Kroeker Jürgen	AED65		Austrian Aerospace	AAE
	Kunz Oliver Dr.	AOE23		Austrian Aerospace	AAEM
	Lamprecht Ernst	OTN/ASI21		APCO Technologies S. A.	APCO
X	Lang Jürgen	ASE4A		Bieri Engineering B. V.	BIER
	Langfermann Michael	AET52		BOC Edwards	BOCE
	Mack Paul	OTN/AET52		Dutch Space Solar Arrays	DSSA
	Muhl Eckhard	OTN/AET52	X	EADS CASA Espacio	CASA
X	Pastorino Michel	ASPI Resid.		EADS CASA Espacio	ECAS
	Peitzker Helmut	AED65		EADS Space Transportation	ASIP
	Peltz Heinz-Willi	AET42		Eurocopter	ECD
	Pietroboni Karin	AED65		HTS AG Zürich	HTSZ
	Platzer Wilhelm	AED22		Linde	LIND
	Puttlitz Joachim	OTN/AET52		Patria New Technologies Oy	PANT
	Rebholz Reinhold	AET52		Phoenix, Volkmarsen	PHOE
	Reuß Friedhelm	AED62		Prototech AS	PROT
	Rühe Wolfgang	AED65		QMC Instruments Ltd.	QMC
	Runge Axel	OTN/AET52		Rembe, Brilon	REMB
	Sachsse Bernt	AED21		Rosemount Aerospace GmbH	ROSE
	Schink Dietmar	AED422		RYMSA, Radiación y Microondas S.A.	RYM
X	Schlosser Christian	OTN/AET52		SENER Ingenieria SA	SEN
	Schmidt Rudolf	FAE22		Stöhr, Königsbrunn	STOE
	Schweickert Gunn	AOE22		Terma A/S, Birkerød	TER
	Stauss Oliver	AOE13			
X	Steininger Eric	AED422			

Formal  
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