

Title: **Electrical Interface Control Document EPLM  
PFM**

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Issue	Sheet	Date	Description of Change
1.0	All	15.05.02	Initial issue for Instrument IIDB Issue 2.0 Rev 0 With CR 10,17,26,30
1.1	All	31.07.2002	Implementation and refinement of Instrument and Cryo data according PACS-MA-SP-001 Issue 2.0 Date 10.06.02 SPIRE RAL-PRJ-000608 Issue 1.0 Date 08.07.02 HIFI SCIPT IIDB/HIFI 02125 Issue 2.2 Date 26.06.0 (not official released)
1.2	All	20.09.2002	HIFI CR37 implemented, Routing and Pin allocation via CVV Feed Throughs and SVM Brackets defined, Harness Bundle names changed, Interfaces and cable for Cryostat Control Components implemented, Pin allocation refinement for all connectors (Not official released)
2.0	All	12.03.2003	Due to major changes as New Feed Trough Connector Situation, deleting of BOLA and new Shielding Concepts the changes can not be listed. New issue 2.0 of Document
	All (HIFI)	23.05.2003	Issue 2.0 also released for first manufacturing inputs to CASA (Document only released as an extract of the database in electronic form)
2.1	PACS related part	06.06.2003	Issue 2.1 release for requested changes of DB by PACS -Shielding for Pins in Feed Throughs (Document only released as an extract of the database in electronic form)
2.2	PACS related part	11.07.2003	Issue 2.2 release for implementation of CR32 and PACS final comments (Document only released as an extract of the database in electronic form)
2.3	SPIRE related part	18.07.03	Issue 2.3 release for SPIRE instrument review Document only released as an extract of the database in electronic form)
2.4	PACS related part	28.07.2003	Changing of 4 Intermediated cables to Brass to fulfil PACS requirements. PACS Manufacturing release for CASA Document only released as an extract of the database in electronic form)
2.5	HIFI related part	15.08.2003	Issue 2.5 release for LOU implementation according CR 0037
2.6	All w.r.t. 1.0	30.08.2003	-Partly implementation of CCH informations -Changes of signal naming in PACS -Comments from SPIRE E-mail 22.08.03
2.7		15.10. 2003	Reserved for CCH changes
2.8		15.10.2003	Late inputs from SPIRE for manufacturing release
3.0	all	18.11.2003	Update for Cryoharness CDR at CASA, reflecting a summary/collection of Iss. 2.0 up to Iss. 2.8, refer to ASSED-MN-0530. Document only released as an extract of the database in electronic form.
3.1	all		Implementation of updated IID-B's, i.e. for HIFI IID-B Iss 3.1, for PACS Iss 3.11 and for SPIRE Iss 3.2. Document served as an internal working issue only, i.e. was not officially distributed !!
4.0	All	04.05.2004	CDR DP release Separation in main part (this document) and 4 sub ICD's
4.1	All	21.09.2004	new release of Sub – ICD “HP-2-ASED-IC-0013” to release 1.0.1 update of the document and new chapter “EPLM Harness” w.r.t. CDR

Issue	Sheet	Date	Description of Change
			RID's 11201;10989 (Ref. to HP-ASED-EM-0734-04) update change record w.r.t. CDR RID No. 11088 update Annex I to VII; remove Annex A to C
4.2	Annex IV - VII	18.02.2005	update of lists

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## 1 Scope

This Interface Control Document (ICD) describes the electrical interfaces of the HERSCHEL **Extended Payload Module**. (EPLM) PFM.

It will be the overall generic information source for the electrical interfaces.

Interfaces, which are under Experimenter Control (FPU internal Interfaces) or under SVM control (Warm Interconnecting Harness and S/C Interfaces), are not part of this document but particularly listed.

For information management a database (ACCESS based) called CAIE (**Computer Aided Interface Engineering**) 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 **Integrated Data Acquisition System**

System information for

- Harness Type
- Routing
- Pin Allocation
- Connectors
- etc

may be derived from this database.

By summarising the electrical interfaces within this document, the ICD will allow a crosscheck of the I/F (harness) design from both sides of an interface. By collecting the interface design description, the ICD will act as a reference for requirement verification and "third-party" interface design (e.g. electrical harness manufacture).

In this way the HERSCHEL EPLM electrical interfaces will be maintained under control.

Actual interface data (as designed/as built), after approval, shall become part of this Interface Control document.

Any change of the ICD contents shall follow the rules of Configuration Control

The ICD presents a database about the electrical interfaces of the Extended Payload Module and its GSE. Interfaces in this context are all input/output interconnections mated via the ASSED provided EPLM harness. For any such interface the ICD enables a fast identification of the interface harness design, the actually built interface circuits, and the main electrical parameters.

Within these features the main purpose of the ICD is:

- to act as a reference data base showing the present interface design (as designed/as built)
- to allow a quick compatibility check of any input/output interface interconnection ("on paper integration")
- to act as a supporting data base for the preparation and performance of the electrical/harness integration (IDAS)
- To facilitate failure investigations in the case of interface problems on EPLM level

For a more effective handling and tracing the HEPLM electrical ICD is separated in the following documents.

- Electrical ICD - Main Part           HP-2-ASED-IC-0001
- CCH ICD PFM                        HP-2-ASED-IC -0013
- HIFI SIH ICD PFM                 HP-2-ASED-IC -0014
- PACS SIH ICD PFM                 HP-2-ASED-IC -0015
- SPIRE SIH ICD PFM                HP-2-ASED-IC -0016

Information given in the main part (HP-2-ASED-0001) are relevant for all sub ICD's.

## 2 Documentation

### 2.1 General

In the event of conflict between the below listed documents and this ICD, the conflict shall be brought to the attention of the EPLM subcontractor for clarification.

### 2.2 Applicable Documents

- [AD1] Herschel/Planck Instrument Interface Document, Part A, SCI-PT-IIDA-04624 issue 3.3; 30.06.2004
- [AD2] Herschel/Planck Instrument Interface Document, Part B; Instrument "HIFI", SCI-PT-IIDB/HIFI-02125, Issue 3,2, 05.03.2004
- [AD3] Herschel/Planck Instrument Interface Document, Part B; Instrument "PACS", SCI-PT-IIDB/PACS-02126, Issue 3.2, 02.03.04
- [AD4] Herschel/Planck Instrument Interface Document, Part B; Instrument "SPIRE", SCI-PT-IIDB/SPIRE-02124, Issue 3.2, 01.03.04
- [AD5] Cryo Harness Interconnection diagram – CCH Upper Ring CVV, HP-2-ASED-ID-0088-01; Issue C
- [AD6] Cryo Harness Interconnection diagram - CCH Lower Ring CVV, HP-2-ASED-ID-0088-02; Issue C
- [AD7] Cryo Harness Interconnection diagram - CCH External Harness, HP-2-ASED-ID-0088-03; Issue D
- [AD8] Cryo Harness Interconnection diagram - SIH HIFI, HP-2-ASED-ID-0090-01; Issue D
- [AD9] Cryo Harness Interconnection diagram - SIH PACS, HP-2-ASED-ID-0089-01; Issue B
- [AD10] Cryo Harness Interconnection diagram - SIH SPIRE, HP-2-ASED-ID-0091-01; Issue B
- [AD11] Herschel Electrical Interface Control Document (Telescope), HER.NT.0187.T.ASTR
- [AD12] Cryo Harness Description, HP-2-ASED-TN-0103 issue 1; 19.04.2004
- [AD13] Description of the PLM FM Cryo Control Instrumentation, HP-2-ASED-TN-0048 issue 2.0; 30.03.2004
- [AD14] CRYO-HARNESS BRANCH CHARACTERISTICS, HP-2-ASED-TN-0085 issue 2.2 ; 19.07.2004
- [AD15] Electrical Interfaces of Herschel Cryogenic Components to Harness; HP-2-ASED-TN-0063; issue 1.1 12.04.2004



### 2.3 Reference Documents

- [RD1] Herschel-Planck EMC Analyses, H-P-1-ASPI-AN-0202 issue 2; 02.07.2004
- [RD2] HERSCHEL PLM Grounding Scheme", HP-2-ASED-DW-0001 issue 1; 22.04.2002
- [RD3] Herschel PLM EICD, HP-2-ASPI-ID-0621issue 2; 27.04.2004
- [RD4] Technical Specification and Qualification Planet For the HIFI Coax Cable Assembly  
HP-2-ASED-PS-0048 issue 1; 28.07.2004
- [RD5] Cryo Cover ICD, HP-2-AAE-IC-0001
- [RD6] CCU ICD ; HP-2-PANT-IC-0225
- [RD7] PVA ICD ;HP-2-GAMI-IC-0001

### 3 EPLM Harness

The E-PLM harness consists of the following components:

- The **Cryostat Control Harness (CCH)**, including the Telescope Harness for the cryo control instrumentation wiring to the SVM ( CCU and PCDU ) units. The Cryostat Control Unit (CCU) provides operational access to the cryo system. For that purpose the payload module is equipped with the Cryostat Control Instrumentation (CCI), a set of monitoring and control devices (e.g. temperature sensors, pressure sensors, liquid He valves etc. ) which are operated by the CCU via the CCH. In addition, the CCH provides also the electrical interconnection for those CCI devices (e.g. the telescope heaters and the CVV Cover NED) which will be operated directly from the SVM PCDU. The harness between the SVM I/F CB and the SVM PCDU respectively the Umbilical I/F is not part of the H-EPLM cryo harness but part of the SVM harness. The part of the CCH required for the operation of the additional CCI, needed during ground testing and the pre-launch phase only, ends at the SVM I/F CB.
- The **Scientific Instrument Harness (SIH)**, for the interconnection of the HIFI, PACS and SPIRE worm units, mounted within the SVM, with their related instrument cold units accommodated on the Optical Bench Assembly (OBA) within the Cryostat. In addition the electrical interconnections between the SVM mounted HIFI warm unit and the HIFI LOU, mounted externally on the CVV, is part of the SIH. The SIH (as well as the CCH ) is especially designed for minimizing thermal losses, which have adverse effects on the cryostat lifetime. In addition, the faint measurement signals, generated by the detectors within the cold Focal Plane Units, have to be protected against any electromagnetic interference on their way via the SIH to the warm units by application of adequate signal grouping and proper shielding.

The CCH as well as the SIH is subdivided into a CVV internal, CVV external and SVM part as also explained in the following table.

	<b>Cryo Control Harness (CCH)</b> - for the cryo control instrumentation wiring to the SVM warm units	<b>Scientific Instrument Harness (SIH)</b> - for the interconnection between the warm and cold units of the HIFI, PACS and SPIRE instruments
<b>CVV Internal</b>	<b>CVV int. CCH</b> Between the CVV internal Cryo Control Instrumentation and the CVV feed through connectors.	<b>CVV int. SIH</b> Between the CVV internal instrument FPU's accommodated on the OBA and the CVV feed through connectors.  The connectors at the instrument cold units are EPLM external interfaces.
<b>CVV External</b>	<b>CVV ext. CCH</b> Between the CVV external Cryo Control Instrumentation, the Telescope Instrumentation respectively the CVV feed through connectors and the SVM interface connector bracket.  The connectors at the Telescope I/F CB and at the SVM I/F CB towards the PCDU and Umbilical are EPLM external interfaces.	<b>CVV ext. SIH</b> Between the CVV external HIFI LOU respectively the CVV feed through connectors and the SVM interface connector bracket.  The connectors at the HIFI LOU are EPLM external interfaces.
<b>SVM</b>	<b>SVM CCH</b> Between the SVM interface connector bracket and the CCU.  The power, Mil-bus 1553 B and AR 5 dry-loop connectors of the CCU are EPLM external interfaces.	<b>SVM SIH</b> Between the SVM interface connector bracket and instrument warm units of HIFI, PACS and SPIRE within the SVM.  The connectors at the instrument warm units are EPLM external interfaces.

Table 3-1 Cryo Harness main segments and external interfaces

The Harness is further subdivided into individual harness bundles to respect the redundancy requirements as well as to consider the S/S and AIV constraints during integration.

The schematic of the Cryo Harness Segments and their major interfaces are shown in the EPLM electrical system overview below.

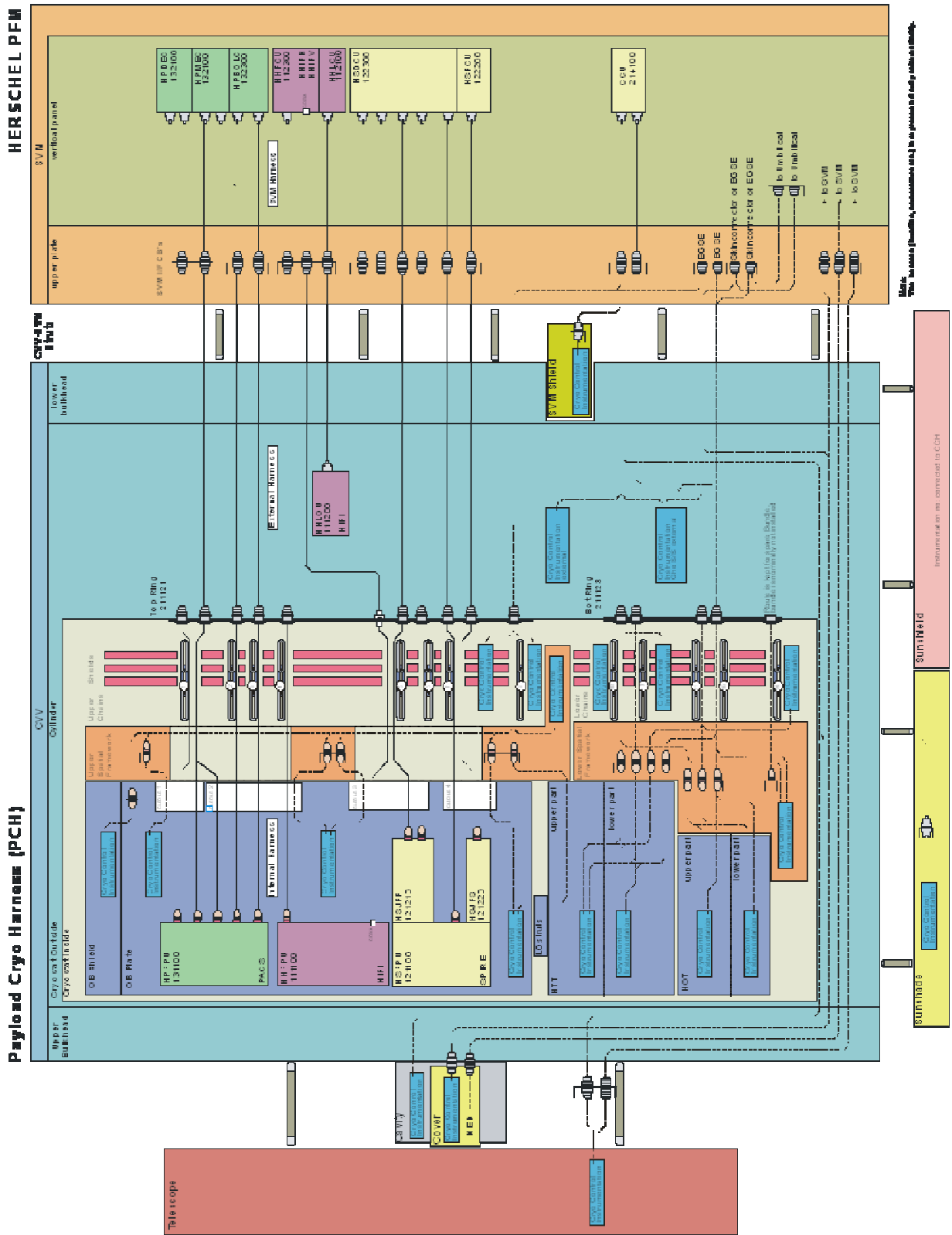


Figure 3-1 EPLM electrical system overview

A detailed overview providing information concerning

- harness routing,
- harness bundle identification,
- connector bracket identification,
- connector identification

are given in the **Cryo Harness Interconnection Diagrams** related to the following **Cryo Harness main segments**:

- for the **CVV int. CCH** ( rooted through the CVV upper ring ) **HP-2-ASED-ID-0088-01 [AD5]**
- for the **CVV int. CCH** ( rooted through the CVV lower ring ) **HP-2-ASED-ID-0088-02 [AD6]**
- for the **CVV ext. CCH** ( incl. Telescope and Cryo Cover CCH ) **HP-2-ASED-ID-0088-03 [AD7]**
- for the **HIFI SIH** ( CVV int./ext. and SVM part ) **HP-2-ASED-ID-0090-01 [AD8]**
- for the **PACS SIH** ( CVV int./ext. and SVM part ) **HP-2-ASED-ID-0089-01 [AD9]**
- for the **SPIRE SIH** ( CVV int./ext. and SVM part ) **HP-2-ASED-ID-0091-01 [AD10]**

Detailed information concerning connector ID, connector type, connector weight, backshell type, cable type, cable length, cable weight and overshield for each individual cable bundle in the same sequence as shown in the Cryo Harness Interconnection Diagrams, are provided in the Technical Note about **Cryo Harness Branch Characteristics [AD14]**.

Detailed information with respect to the interface characteristics of the HPLM internal Cryostat Control Instrumentation (CCI) components are provided in the Technical Note **Electrical Interfaces of Herschel Cryogenic Components to Harness [AD15]** and in the **Cryo Cover ICD [RD5]**.

Detailed information with respect to the interface characteristics of the HPLM external interface to the telescope are provided in the **Telescope EICD [AD11]**.

Detailed information with respect to the interface characteristics of the HPLM external CCU power, MIL-BUS 1553 B and AR5 dry-Loop interfaces are provided in the **CCU ICD [RD6]**.

The Solar Array harness is not part of the EPLM Cryo Harness since it is directly connected to the SVM via the connector bracket SK 01A. Detailed information concerning the Solar Array I/F is provided in the **PVA ICD [RD7]** from Galileo Avionica.

Detailed information with respect to the interface characteristics of the HPLM external instrument warm and cold unit interfaces are provided in the following ICD's

- **HIFI IID-B [AD2]**
- **PACS IID-B [AD3]**
- **SPIRE IID-B [AD4]**

Detailed information with respect to the interface characteristics of the HPLM external interfaces for the HIFI coax cables are provided in [RD4].

## 4 How to use this Document

The EICD comprises the following generic Reports from the EPLM CAIE database with the DB input status of 18.02.2005. (PFM\_4\_7\_20050218\_1254)

- |  |     |
|--|-----|
| • Subsystem List (Mechanical and electrical)                   | SSL |
| • Item List (Mechanical and Electrical) with Support Equipment | IL  |
| • EMC Category and Sub Harness Type (Harness separation)       | EML |
| • Cable Type   | CDT |
| • Cable Characteristic List                                    | CCL |
| • Connector Type List  | CTL |
| • Connector Reference List                                     | ICL |

These lists are applicable in particular for following sub ICD's. :

- |                     |                   |
|---------------------|-------------------|
| • CCH ICD PFM       | HP-2-ASED-IC-0013 |
| • HIFI SIH ICD PFM  | HP-2-ASED-IC-0014 |
| • PACS SIH ICD PFM  | HP-2-ASED-IC-0015 |
| • SPIRE SIH ICD PFM | HP-2-ASED-IC-0016 |

## 5 HEPLM Electrical Interfaces Generic Lists

### 5.1 Subsystem Lists

As far as relevant for this ICD in this list all the mechanical and electrical subsystems of the HEPLM are identified.

For the HEPLM CAIE Data Base there is no information in the leading 1 of the Product Tree. The HEPLM CAIE Database is limited to 3 digits, the leading 1 in the Subsystem list and the following PTI listings was deleted to achieve a better refinement for PTI's

Example

Original 12100 = Herschel Payload Module is now 210 xxx

Annex I contains the Subsystem List as an extract from the used CAIE database.

### 5.2 Item List

In order to standardise the subsystem/experiment item identification for electrical interfaces the acronyms as defined in the list below shall be used for item identification within electrical ICD's. This item code identifies each item unequivocally. The item code consists of six digits. The first three digits identify the subsystem (see Subsystems before), the last three digits identify the item within the subsystem. This includes all mechanical and electrical items in a subsystem (Self-standing parts like Electronic Boxes, brackets etc). Following the PTI / CI, the item list contains a code without the prominent one from the PTI list as explained also in the chapter Subsystems. Special Items only used for the EQM are not listed at the in this database

Explanation of table headers in the Item List

**Item Code** (first column in table IL)

The following numbering system is allocated to the electrical items in the HERSCHEL EPLM system

1xx xxx	HERSCHEL Instruments
2xx xxx	HERSCHEL Extended Payload Module
3xx xxx	HERSCHEL Service Module
4xx xxx	HERSCHEL GSE
5xx xxx	HERSCHEL EQM



<b>11x xxx</b>	HIFI Instrument
<b>12x xxx</b>	SPIRE Instrument
<b>13x xxx</b>	PACS Instrument
<b>14x xxx</b>	Telescope
<b>21(Letter) xxx</b>	Place holder for Cryostat Control Items (Thermistors, Accelerometers etc)
(Letter)	A= Accelerometer
	D= Direct Liquid Control and Measurement (DLCM)
	H= Heater
	L= Liquid Level Sensors
	N=NED(non explosive devices)
	P= Pressure Transducer
	PPS= Passive Phase Separator
	S= Status Monitoring Switches
	T= Thermistors
	V= Electrical Valves

The numbering system of the last 4 digits for the Cryostat Control items was taken from the well known and settled ISO numbering system.

HTT (HE-II Tank)	Group 100
OBA (Optical Bench Assembly)	Group 200
EPLM S/S	Group 300
Shield Group (Thermal Shields)	Group 400
GHe external ventlines	Group 500
Cover/Cryostat Baffle	Group 600
HOT (He-I Tank)	Group 700
Support Structure (TSS)	Group 800
CVV outside	Group 900

<b>211 31x</b>	Cryostat Cover Items
<b>214 100</b>	Cryostat Control Unit
<b>3xx xxx</b>	SV Module Items
<b>31x xxx</b>	SVM Brackets from Instruments and Telescope
	311 xxx = HIFI SVM CB's
	312 xxx = SPIRE SVM CB's
	313 xxx = PACS SVM CB's
	314 xxx = Telescope SVM CB's
<b>321 xxx</b>	Connector Brackets for Cryostat Control Items
<b>42x xxx</b>	SCOE Items
<b>5xx xxx</b>	EQM Items
<b>6xx xxx</b>	Virtual Items from Space Craft like PCDU etc

To allow an easy identification for Instrument units the 3<sup>rd</sup> digit in the PTI is used as following:

<b>xx1 xxx</b>	Items inside the cryostat and on the CVV (Cold Units)
<b>xx2 xxx</b>	Items on the SVM Panels (Warm Units)

For mechanical Items this schematic is not foreseen

**Item Identifier** (2<sup>nd</sup> column in table IL)

Self explaining Abbreviation for the item

H	= HERSCHEL
HH	= HERSCHEL HIFI
Etc	

**Item Name** (3<sup>rd</sup> column in table IL)

The item name is the more explaining name of the item Identifier

**Product Tree Reference** (4<sup>th</sup> column in table IL)

The Subsystem Code (first 3 digits) allocates the item to a subsystem

**Subsystem Affiliation** (5<sup>th</sup> column in table IL)

Short Name Code of the Subsystem to which the item belongs to

**Item Type** (6<sup>th</sup> column in table IL)

The items will be distinctive according

- only mechanical function M
- item with electrical function E
- isolation function I
- Superordinate System -

**Location** (7<sup>th</sup> column in table IL)

The location code will be explained in the chapter 5.3

**New**

Change Index to mark changes.

Annex II contains the Item list as an extract from the used HEPLM CAIE Data Base.

### 5.3 EMC Classes and Harness Separation

A general distinction will be done between

Power harness	= EMC Class 1
Signal harness	= EMC Class 2
Low level analogue harness	= EMC Class 3
RF harness	= EMC Class 4
Harness tbd	= EMC Class tbd

Distributed in the S/C there are seven sets of harness serving the S/C and experiment payload set:

#### 5.3.1 *Spacecraft Harness (1U, 2U, xU, ...)*

This harness links the spacecraft electrical lines to the experiment units on the SVM panels  
The harness will be manufactured under Service Module/Instrument/ tbd Responsibility and is only listed partially in the Database for Overview reason  
Sometimes for the EPLM this harness is equivalent to T (test) harness

The spacecraft harness will be

- 1U = Primary Power from the S/C
- 2U = Signal Lines from/to the S/C (OBDH, HL Cmd etc)
- xU = Harness from S/C tbd

### **5.3.2 Test & Checkout Harness (1T, 2T, XT, ...)**

This harness will be manufactured under Instrument/tbd Responsibility and connects the Checkout and Test equipment to the PLM/EPLM

The Lines will be listed in the database sometimes as X (U) for they are the same as for Checkout and S/C activities

Checkout harness for EQM/EPLM will be a subset of S/C harness

1T = Power harness (from SCOE or SVM simulator etc)

2T = Signal harness

OBDH Bus

Synchronisation (TBD)

S/C direct lines (Command lines) tbd,

Thermistors and Status acquired by RTU tbd

Checkout lines from the Cryo SCOE to SVM Connector (Umbilical) brackets tbd

etc

xT = Test harness, EMC Class tbd

### **5.3.3 SVM Panel Harness between warm units (1W, 2W, 3W, 4W, XW, ...)**

This harness interconnects the instrument boxes on the SVM panels directly and will be manufactured under Instrument / tbd responsibility. In the database this harness is only partly listed

1W = Primary Power between boxes (not used tbd)

Heater tbd

2W = Signal Lines as

Secondary Power to other boxes (will be seen as signal)

Serial communication lines (1553)

Direct Command lines between boxes

Analogue and status lines between boxes

3W = Low Level Analogue lines

4W = HF Lines tbd

XW = Special lines tbd

### **5.3.4 Instrument warm units to SVM Bracket Harness (1S, 2S, 3S, 4S, XS, .[SIH-Sx])**

This part of harness connects the instrument boxes and the CCU to the connector brackets located on top of the SVM panels. This harness will also be called Warm harness. The harness has to be manufacture under ASED responsibility.

1S = Primary Power to SVM Bracket (not foreseen at the moment tbd)

2S = Signal Lines as

Secondary Power to Optical Bench

Analogue and status acquired by SVM located boxes tbd

CCU lines like

Thermistors, Accelerometers, Level Sensors, Pressure Sensors

Strain gauge, Valve Status Switches, Heaters, Valve Drives

tbd Instrumentation

3S = Low level analogue Signals

Low signal analogue lines from/to Optical Bench and Units outside the CVV

Especial PACS Lines

4S = RF lines from SVM Units to OB and others (HIFI)

XS = Special Lines TBD

### **5.3.5 Interconnecting Cryostat Vacuum Vessel Instrument and CCU Harness (1I, 2I, 3I, 4I, XI, ...[SIH-Ix])**

This harness is linking the SVM Instrument brackets, the Cryostat Control Unit (CCU) Bracket, the Telescope Brackets and the Brackets from EGSE/SCOE on top of the panels to the feed through connectors and to units/items outside the CVV (CCU Instrumentation etc)

1I = Primary power interconnecting harness (not foreseen at the moment)

2I = Signal interconnecting harness (HIFI, SPIRE, TELESCOPE and CCS Instrumentation)

3I = Low level analogue signal (PACS)

4I = RF lines

xi = Special lines tbd (Waveguides)

### **5.3.6 Cryo Instrument Cold Harness (1C, 2C, 3C, 4C, XC, ...[SIH-Cx])**

This is a cold harness inside the CVV linking the feed through connectors to the instruments on the Optical Bench, especially to the Focal Plane units. The harness will be manufactured under ASED responsibility.

The harness will also connect the CCS Instrumentation inside the CVV to the Feed Through Connectors

1C = Primary Power harness inside Cryostat (not foreseen)

2C = Signal harness inside Cryostat

3C = Low level analogue Signal inside the Cryostat

4C = RF lines inside the Cryostat

xC = Special Lines tbd (Waveguides)

### **5.3.7 Focal Plane /Optical Bench Harness (1F, 2F, 3F, 4F, XF, ...)**

This cold harness is interconnecting the items on the optical bench and will be manufactured under instrument responsibility. The harness is listed only for overview reasons

1F = Primary Power harness on Optical Bench (not foreseen )

2F = Signal harness on optical bench

all optical bench (F) lines are declared as EMC class Signal (2) at the moment tbd

3F= Low level analogue signal on optical bench (not used tbd)

4F = RF lines on optical bench (not used tbd)

xF = Special Lines on optical bench tbd

### 5.3.8 Cryo-Harness Branch Identification

Apart from Harness separation by EMC classes a distinction by Harness Branch Identification for the different routing sections will be done. This Identification will be added to connector and Channel Information's in the DataBase.

Branch-ID	Cryo-Harness Branch Identification
	numbers shall be compliant to Instrument numbers
CCH-WE-xx	Cryo Control Harness Warm-EGSE-xx
CCH-WU-xx	Cryo Control Harness Warm-UMB-xx
CCH-WV-xx	Cryo Control Harness Warm-CVV-xx
CCH-WT-xx	Cryo Control Harness Warm-Telescope-xx
CCH-WN-xx	Cryo Control Harness Warm-NCA-xx
SIH-WP-xx	Scientific Instrument Harness-Warm-Pacs-xx
SIH-WH-xx	Scientific Instrument Harness-Warm-Hifi-xx
SIH-WS-xx	Scientific Instrument Harness-Warm-Spire-xx
CCH-IV-xx	CryoControl-Harness-Interface-CVV-xx
CCH-IT-xx	Cryo-Control-Harness-Interface-Telescope-xx
CCH-IN-xx	Cryo-Control-Harness-Interface-NCA-xx
SIH-IP-xx	Scientific Instrument Harness-Interface-Pacs-xx
SIH-IH-xx	Scientific Instrument Harness-Interface-Hifi-xx
SIH-IS-xx	Scientific Instrument Harness-Interface-Spire-xx
SIH-IB-xx	Scientific Instrument Harness-Interface-Bola-xx tbc
SIH-IL-xx	Scientific Instrument Harness-Interface-Lou-xx tbc
CCH-CB-xx	Cryo-Control-Harness-Cold-Optical Bench-xx
CCH-CF-xx	Cryo-Control Harness-Cold Framework-xx
CCH-CO-xx	Cryo Control-Harness-Cold-HOT-xx
CCH-CT-xx	Cryo Control-Harness-Cold HTT-xx
CCH-CV-xx	Cryo Control-Harness-Cold-Vessel-xx
SIH-CP-xx	Scientific Instrument Harness-Cold Pacs-xx
SIH-CH-xx	Scientific Instrument Harness-Cold Hifi-xx
SIH-CS-xx	Scientific Instrument Harness-Cold Spire-xx

In Annex III is a list of defined EMC classes for harness separation as an extract from the used HEPLM CAIE Data Base.



## 5.4 Cable Type List

In this table the principal used cable types are listed.

The **Cable Code** defines a raw cable category with the following order:

0	diverse
1	single line
2	pair line
3	n-tuple, unshielded
4	single line shielded
5	pair line shielded
6	n-tuple shielded
7	double shielded lines
8	coaxial cables

The **Cable Type** is an abbreviation of the cable description in **Cable Type Name**.

**Number of Cores, Twisted, Number of Shields** are self explaining columns.

There is a list of defined cable types used in the HEPLM CAIE Data Base in annex IV. Implementation of the manufacturer code into the database is not possible for database internal reasons.

This list is an extract from the used HEPLM CAIE Data Base.

## 5.5 Cable Characteristic List

In the Cable Characteristic List a deeper specification of the used cable types will be done.

Different gauges of each cable type can be defined.

- Specific Resistance per meter at 293°K (resistance requirement calculation)
- Specific Capacitance per meter
- Cable diameter (routing, bundling)
- Metal Part in cable (thermal calculation)
- Insulation Part in Cable (thermal calculation)
- Specific Weight (harness weight calculation)

As far as yet implemented they can be used for supporting information.

This table is not yet completed and primary used for data base internal reason.

Therefore the cable characteristic list is for information only.

Annex V contains the Cable Characteristic List as an extract from the used HEPLM CAIE Data Base.

## 5.6 Connector Reference List

The connector reference list contains all used connectors defined in the database.

Annex VI shows the connector reference list as an extract of the HEPLM CAIE Data Base.

## 5.7 Pin allocation List Harness Side

This list describes the Harness side Connector Pin allocations based on Instrument IIDB's, Harness specifications as well as definition documents with respect to CCH and CCH instrumentation, Only the connectors which are under harness manufacturing responsibility are listed.

For am more effective handling and traceability the list is divided in to the following groups. :

- CCH ICD PFM
- HIFI SIH ICD PFM
- PACS SIH ICD PFM
- SPIRE SIH ICD PFM

The corresponding harness pin allocation lists, which are the major information for harness manufacturing are part of the sub ICD's as pointed out in chapter 6.

## 6 Sub ICD's

As a major information for the harness manufacturing the documents

- HP-2-ASED-IC-0013
- HP-2-ASED- IC-0014
- HP-2-ASED- IC-0015
- HP-2-ASED- IC-0016

contains the harness pin allocation list for the appropriate harness.

### 6.1 CCH Sub ICD

The CCH Sub ICD HP-2-ASED-IC-0013 form a part of this document to be the extent specified herein.

Unless an issue is quoted, the current issue is deemed to apply. When an issue is quoted that issue and no other must be used.

### 6.2 HIFI Sub ICD

The HIFI Sub ICD HP-2-ASED-IC-0014 form a part of this document to be the extent specified herein.

Unless an issue is quoted, the current issue is deemed to apply. When an issue is quoted that issue and no other must be used.

### 6.3 PACS Sub ICD

The PACS Sub ICD HP-2-ASED-IC-0015 form a part of this document to be the extent specified herein.

Unless an issue is quoted, the current issue is deemed to apply. When an issue is quoted that issue and no other must be used.

### 6.4 SPIRE Sub ICD

The SPIRE Sub ICD HP-2-ASED-IC-0016 form a part of this document to be the extent specified herein.

Unless an issue is quoted, the current issue is deemed to apply. When an issue is quoted that issue and no other must be used.

## Annex I Subsystem List

<b>Astrium GmbH</b>	<b>Subsystem List</b>	Doc. No. : HP-2-ASED-IC-0001
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<b>S/S-Code</b>	<b>Abbreviation</b>	<b>Subsystem Name</b>	<b>New</b>
000	H/P	Herschel/Plank System	
010	H	Herschel	
020	P	Planck Satellite	
100	CFE ITEMS	Herschel CFE Items	
110	HIFI	Herschel HIFI Instrument	
111	HIFI CU	HIFI Cryostat Units	
112	HIFI WU	HIFI Warm Units	
115	HIFI GSE	HIFI Instrument GSE	
120	SPIRE	Herschel SPIRE Instrument	
121	SPIRE CU	SPIRE Cryostat Units	
122	SPIRE WU	SPIRE Warm Units	
125	SPIRE GSE	SPIRE Instrument GSE	
130	PACS	Herschel PACS Instrument	
131	PACS CU	PACS Cryostat Units	
132	PACS WU	PACS Warm Units	
135	PACS GSE	PACS Instrument GSE	
140	HTL	Herschel Telescope	
141	HTL BAF	Herschel Telescope incl Baffle	
145	HTGSE	Herschel Telescope GSE	
200	EPLM	Herschel Ext.Payl.Module	
210	PLM	Herschel Payload Module	
211	CSS	Cryostat Structure S/S	
212	CHS	Cryostat Helium S/S	
213	CIS	Cryostat Insulation S/S	
214	CES	Cryostat Electrical S/S	
215	ISS	Instrument Secondary Structure	
220	TMS	Telescope Mounting Structure	
221	TMSCVV	TMS/CVV Struts	
222	TMSMLI	TMS/CVV Struts MLI	
223	TMSMF	TMSFrame	
224	TMSCB	TMS/CB Struts	
230	HSS	Solararray& Sunshade	
231	HSSSTR	Solararray/Sunshade Structure	
232	SPG	Solar Power Generator	
233	THERMC	Thermal Control	
240	PLM/SVM IF	PLM/SVM Interface	
241	PLM/SVMIFS	PLM/SVM Interface Struts	
242	PLM/SVMMLI	PLM/SVM Interface Struts MLI	
243	SVMTSA	SVM Thermal Shield Assembly	
300	SVM	SVM	
311	HIFISVMCB	HIFI SVM Connector Bracket	
312	SPIRESVMCB	SPIRE SVM Connector Bracket	
313	PACSSVMCB	PACS SVM Connector Bracket	
314	CCSSVMCB	Cryo Cov & Tel SVM Con. Bra	
315	EGSE CB	EGSE/Umb Con Bracket	
316	EXT VTL CB	External Ventline Con Bracket	
31X	SVM CFE	SVM CFE	
321	CCH CB	SVM CCH CB (Th Shd)	
322		SVM Thermal Shield MLI	
400	GSE	GSEs	
410	H S/C GSE	Herschel S/C GSE	
411	H S/C MGSE	Herschel S/C MGSE	
412	H S/C EGSE	Herschel S/C EGSE	
413	S/C CVSE	see EPLM S/C CVSE	
414	S/C OGSE	see EPLM S/C OGSE	
420	EPLM GSE	EPLM GSE	
421	EPLM MGSE	EPLM MGSE	
422	EPLM EGSE	EPLM EGSE	

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<b>S/S-Code</b>	<b>Abbreviation</b>	<b>Subsystem Name</b>	<b>New</b>
423	EPLM CVSE	EPLM CVSE	
424	EPLM OGSE	EPLM OGSE	
425		Mass Thermal Dummies	
426	TBD	Mockups	
427	CTA	Cryo Test Adapter PFM	
428	TBD	Miscellaneous	
430	HEXGSE	Herschel external GSE	
431	HEXEGSE	Herschel external EGSE	
500	HPLMEQM	Hersch Eng Qual Payload Module	
510	EQMPLM	PLM EQM	
511	EQM CSS	EQM Cryostat Struct Subsys.	
512	EQM CRHEU	EQM Cryostat Helium Units	
513	EQM CIS	EQM Cryost. Insul. Subsys.	
514	EQM CES	EQM Cryost. Electr. Subsys.	
515	EQM ISSTR	EQM Instrum. Second. Struct.	
520	EQMSVMSIM	EQM SVM Simulator	
550	EQM AGSE	EQM additional GSE	
551	EQMISOMGS	EQM ref. ISO MGSE	
552	EQM ACVSE	EQM additional CVSE	

**Annex II**

**Item List**

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Item-Code	Item-Identifier	Item Name	Subsystem Affiliation	Item-Type	Location	New
<b><u>HERSCHEL (Item Code: 00*)</u></b>						
000000	H/P	Herschel/Plank System (not used)	H/P	-	HLS	
000010	H	Herschel Satellite (not used)	H	-	HLS	
<b><u>HERSCHEL INSTRUMENTS (Item Code: 1x*)</u></b>						
100000	HIS	Herschel Scientific Instruments	SVM	E	INS	
<b><u>HERSCHEL HIFI (Item Code: 11*)</u></b>						
110000	HIFI	HIFI Units	HIFI	E	INS	
111000	HHICVV	HIFI Cryostat Units (cold)	HIFI	E	70	
111100	HHFPU	HIFI Focal Plane Unit	HIFI	E	73	
111200	HHLOU	HIFI LOU (outs. Cryost.)	HIFI	E	44	
111300	HHLOUR	HIFI LOU Radiator (outs. Cryost)	HIFI	-	44	
111400	HHLWU	HIFI LOU Waveguide (outs. Cryost)	HIFI	-	44	
112000	HHSVM	HIFI Units on SVM (warm)	HIFI	E	SVM	
112100	HHLCU	HIFI Local Oscillator Control Unit	HIFI	E	16	
112200	HHLSU	HIFI Local Oscillator Synth Unit	HIFI	E	15	
112300	HHFCU	HIFI Focal Plane Control Unit Warm	HIFI	E	16	
112410	HHHRH	HIFI High Res Spec Horizontal	HIFI	E	15	
112420	HHHRV	HIFI High Res Spec Vertical	HIFI	E	15	
112510	HHWEH	HIFI WB Spec Elec Horizontal	HIFI	E	16	
112520	HHWEV	HIFI WB Spec Elec Vertical	HIFI	E	16	
112530	HHWOH	HIFI WB Spec Optics Horizontal	HIFI	E	16	
112540	HHWOV	HIFI WB Spec Optics Vertical	HIFI	E	16	
112600	HHICU	HIFI Instrument Control Unit	HIFI	E	16	
112700	HH3DH	3 db Coupler Horizontal	HIFI	E	16	
112800	HH3DV	3 dB Coupler Vertical	HIFI	E	16	
112900	HHWIH	HIFI Panel Warm Interc. Harn. (WIH)	HIFI	E	15	
113000	HHFS	HIFI Flight Spares	HIFI	-	INS	
115000	HHGSE	HIFI Instrument GSE	HIFI	-	GSE	
115100	HHMGSE	HIFI MGSE	HIFI	-	GSE	
115110	HHUTC	HIFI Unit Transport Cont (tbd)	HIFI	M	GSE	
115111	HHUTC1	HIFI Unit Transport Cont 1 (tbd)	HIFI	M	GSE	
115112	HHUTC2	HIFI Unit Transport Cont 2 (tbd)	HIFI	M	GSE	
115200	HHEGSE	HIFI EGSE	HIFI	-	GSE	
117000	HHWSVMIH	HIFI Harness	HIFI	E	HAR	
117100	HHCHARN	HIFI CVV Internal Harn. (C)	HIFI	E	HAR	
117200	HHIHARN	HIFI CVV Ext. Harn. (I)	HIFI	E	HAR	
117300	HHSHARN	SVMCB- Warm Units Harn. (S)	HIFI	E	HAR	
117900	HHC OHARN	HIFI Ceck Out Harness (T)	HIFI	E	HAR	
<b><u>HERSCHEL SPIRE (Item Code: 12*)</u></b>						
120000	SPIRE	SPIRE Units	SPIRE	-	INS	
121000	SPIRE C UN	SPIRE Cryostat Units (cold)	SPIRE	E	INS	
121100	HSFPU	SPIRE Focal Plane Unit	SPIRE	E	70	
121110	HS SLW BDA	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
121120	HS SSW BDA	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
121130	HS PLW BDA	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
121140	HS PMW BDA	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
121150	HS PSW BDA	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
121160	HS SCO	SPIRE FPU (Instr. Intern)	SPIRE	E	77	



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Item-Code	Item-Identifier	Item Name	Subsystem Affiliation	Item-Type	Loca-tion	New
121170	HS SCAL	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
121180	HS PCAL	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
121190	HS SMEC	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
1211A0	HS FPU FA	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
1211B0	HS FPU FB	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
1211C0	HS FPU FC	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
1211D0	HS FPU FD	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
1211E0	HS FPU FE	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
1211F0	HS FPU FF	SPIRE FPU (Instr. Intern)	SPIRE	E	77	
1211G0	HS PTC	SPIRE Photom. Control HW	SPIRE	E	72	
1211H0	HS BSM	SPIRE Beam Stearing Mirror	SPIRE	E	70	
1211I0	HSTERM	SPIRE Thermistors	SPIRE	E	77	
121200	HSJFET	SPIRE JFET Box	SPIRE	E	76	
121210	HSJFP	SPIRE JFET Box Photometer	SPIRE	E	75	
121220	HSJFS	SPIRE JFET Box Spectrometer	SPIRE	E	76	
121300	HSICHARN	SPIRE Instrument Cryo Harn (F)	SPIRE	E	INS	
121310	HSPCHARN	SPIRE Photo Cryo Harn (F)	SPIRE	E	INS	
121320	HSSCHARN	SPIRE Spec Cryo Harn (F)	SPIRE	E	INS	
121400	HS SHUT	SPIRE FPU Shutter	SPIRE	E	77	
121500	HS C HARN	SPIRE Cryogenic Harn (C) ?	SPIRE	E	HAR	
121600	HS I HARN	SPIRE CVV Int Harness (I) ?	SPIRE	E	HAR	
122000	SPIRE W UN	SPIRE Units on SVM (warm)	SPIRE	E	17	
122100	HSDPU	SPIRE Dig Proc Unit	SPIRE	E	17	
122200	HSFCU	SPIRE Focal Plane Control Unit	SPIRE	E	17	
122300	HSDCU	SPIRE Det. Readout & Control Unit	SPIRE	E	17	
123000	HSFS	SPIRE Flight Spares	SPIRE	-	INS	
125000	HSGSE	SPIRE Instrument GSE	SPIRE	-	GSE	
125100	HSMGSE	SPIRE MGSE	SPIRE	M	GSE	
125110	HSUTC	SPIRE Unit Transp Cont	SPIRE	M	GSE	
125120	HSHJIGS	SPIRE Integr. Jigs	SPIRE	M	GSE	
125200	HSOPGSE	SPIRE OGSE	SPIRE	M	GSE	
125210	HSALIGN	SPIRE Alignment	SPIRE	M	GSE	
125300	HSEGSE	SPIRE EGSE	SPIRE	E	GSE	
127000	HS W HARN	SPIRE Harness	SPIRE	E	HAR	
127100	HSCHARN	SPIRE CVV Int Harn (C)	SPIRE	E	HAR	
127200	HSIHARN	SPIRE CVV Ext.Harn (I)	SPIRE	E	HAR	
127300	HSSHARN	SPIRE SVM CB-Warm Units (S)	SPIRE	-	HAR	
127400	HSWHARN	SPIRE Pan Warm Interc. Harn (W))	SPIRE	E	HAR	
127900	HSCOHARN	SPIRE Ceck Out Harness (T)	SPIRE	E	GSE	

**HERSCHEL PACS (Item Code: 13\*)**

130000	PACS	PACS Units	PACS	E	INS	
131000	PACS C UN	PACS Cryostat Units (Cold)	PACS	E	70	
131100	HPFPU	PACS Focal Plane Unit	PACS	E	70	
131110	HPTEMPS I	PACS FPU Temp Sens (Instr Int)	PACS	E	77	
131111	HPFPUT1	PACS FPU Temp. Sens 1 (Instr Int)	PACS	E	77	
131112	HPFPUT2	PACS FPU Temp. Sens 2 (Instr Int)	PACS	E	77	
131113	HPFPUT3	PACS FPU Temp. Sens 3 (Instr Int)	PACS	E	77	
131114	HPFPUT4	PACS FPU Temp. Sens 4 (Instr Int)	PACS	E	77	
131120	HPCALS	PACS FPU Calib. Sour (Instr Int)	PACS	E	77	
131121	HPCALS1	PACS FPU Calibr Sour 1 (Instr Int)	PACS	E	77	
131122	HPCALS2	PACS FPU Calibr Sour 2 (Instr Int)	PACS	E	77	
131130	HPCHOP	PACS FPU Chop (Instr. Int)	PACS	E	77	
131131	HPFPUCHIF	PACS FPU Chop I/F (Instr Int)	PACS	E	77	

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131140	HPFWHR	PACS FPU Filter Whr (Instr. Int)	PACS	E	77	
131141	HPFWHR1	PACS FPU Filter Whr 1 (Instr Int)	PACS	E	77	
131142	HPFWHR2	PACS FPU Filter Whr2 (Instr Int)	PACS	E	77	
131150	HPGRAT	PACS FPU Grating (Instr. Int)	PACS	E	77	
131151	HPFPUGRIF	PACS FPU Grat I/F (Instr. Int)	PACS	E	77	
131160	HPPHOTOM	PACS Photometer (Instr. Int)	PACS	E	77	
131161	HPBBOLO	PACS Blue Bolometer (Instr Int)	PACS	E	77	
131162	HPRBOLO	PACS Red Bolometer (Instr Int)	PACS	E	77	
131163	HP Cooler	PACS Cooler (Instr. Int)	PACS	E	77	
131170	HP SPEC	PACS Spectrometer (Instr. Int)	PACS	E	77	
131171	HPBPHOTO	PACS Blue Photom. (Instr Int)	PACS	E	77	
131172	HPRPHOTO	PACS Red Photom. (Instr Int)	PACS	E	77	
132000	PACS W UN	PACS Units on SVM (warm)	PACS	E	SVM	
132100	HPDECMEC	PACS DEC/MEC Nom/Red	PACS	E	18	
132300	HPBOLC	PACS Bolm./Cooler Contr.	PACS	E	18	
132400	HPDPU	PACS Data Processing Unit	PACS	E	18	
132500	HPSPU1	PACS Sig. Proc Unit 1 (NOM)	PACS	E	18	
132600	HPSPU2	PACS Sig. Proc Unit 2 (RED)	PACS	E	18	
133000	HPFS	PACS Flight Spares	PACS	-	INS	
135000	HPGSE	PACS Instrument GSE	PACS	M	GSE	
135100	HPMGSE	PACS MGSE	PACS	M	GSE	
135110	HPUTC	PACS Unit Transp Cont	PACS	M	GSE	
135200	HPEGSE	PACS Eletrical GSE	PACS	E	GSE	
135300	HPOGSE	PACS Optical GSE	PACS	E	GSE	
137000	HPWBH	PACS Harness	PACS	E	HAR	
137100	HPCHARN	PACS CVV Internal Harn (C)	PACS	E	HAR	
137200	HPIHARN	PACS CVV Ext Harn (I)	PACS	E	HAR	
137300	HPPHARN	PACS SVMCB-Warm Units (S)	PACS	E	HAR	
137400	HPWIH	PACS Panel Warm Interc. Harn. (W)	PACS	E	HAR	
137900	HPCOHARN	PACS Checkout Harness (T)	PACS	E	GSE	
<b><u>TELESCOPE (Item Code: 14*)</u></b>						
140000	HTL	Herschel Telescope	HTL	-	83	
141000	HTU	Herschel Telescope Unit	HTL	-	83	
141100	H TEL CB	Herschel Telesc Unit CB	HTL	-	83	
145000	HTGSE	Telescope GSE	HTL	M	GSE	
145100	HTCONT	Tansport Container	HTL	M	GSE	
145200	HTLDV	Lifting Device	HTL	M	GSE	
145300	HTPTC	Protective Cover	HTL	M	GSE	
<b><u>EPLM (Item Code: 2x*)</u></b>						
200000	EPLM	Extended Payload Module	EPLM	-	PLM	
<b><u>PLM (Item Code: 21*)</u></b>						
210000	PLM	Payload Module	PLM	-	PLM	
211000	CSS	Cryostat Structure S/S	CSS	-	CSS	
211100	CVV	Cryostat Vakuum Vessel	CSS	-	CSS	
211110	CVVUB	CVV Upper Bulkhead	CSS	M	E1	
211120	CVVCY	CVV Cylinder	CSS	M	30	
211121	CVVUCR	Upper Connector Ring	CSS	E	33	
211123	CVVLCR	Lower Connector Ring	CSS	E	30	

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211130	CCVLB	CVV Lower Bulkhead	CSS	M	30	
211140	CVVRN	CVV Radiator Nose	CSS	M	30	
211200	TSF	Tank Support & Spatial Framework	CSS	M	CSS	
211210	STR	Tank Straps Lower and Upper	CSS	M	30	
211211	UTSC	Upper Tank Straps Chain	CSS	M	CSS	
211212	LTSC	Lower Tank Straps Chain	CSS	M	CSS	
211213	CHBOL	Chain Bolts	CSS	M	CSS	
211214	STRPREDEV	Strap Pretensioning Devices	CSS	M	CSS	
211220	SPAF	Spatial Framework	CSS	-	30	
211221	USPFW	Upper Spatial Framework	CSS	M	CSS	
211222	LSPFW	Lower Spatial Framework	CSS	M	CSS	
211300	CCC	Cryostat Cover & Cavity	CSS	M	CSS	
211310	CC CB	Cryostat Cover Con Bracket	CSS	E	CSS	
211311	CC FTH CB	Cryostat Cover Feed Thr CB	CSS	E	CC	
211320	C	Cavity	CSS	-	CSS	
211400	IOB	Instrument Optical Bench	CSS	M	CSS	
212000	CHS	Cryostat Helium S/S	CHS	-	60	
212100	HTT	Helium II Tank	CHS	M	CSS	
212200	HSC	Helium System Componentns	CHS	-	CSS	
212250	RUPDIS	Rupture Disc	CHS	M	CSS	
212270	ABS	Absorbers	CHS	M	CSS	
212280	FILLPORTS	Filling Ports	CHS	M	CSS	
212281	TINT FILL	Tank Internal Filling	CHS	M	CSS	
212282	TEXTFILL	Tank External Filling	CHS	M	CSS	
212400	HST	Helium System Tubing	CHS	M	CSS	
212410	INTTUB	Internal Tubing	CHS	M	CSS	
212411	HeITTUB	Helium II Tank Tubing	CHS	M	CSS	
212412	HeITTUB	Helium I Tank Tubing	CHS	M	CSS	
212413	SHDTUB	Shields Tubing	CHS	M	CSS	
212420	EXTTUB	External Tubing	CHS	M	CSS	
212430	OBHEVENT	Optical Bench Helium Vent Line	CHS	M	CSS	
212500	HOT	Helium I Tank	CHS	M	CSS	
212510	HOT CB	Helium I Tank Connector Bracket	CHS	E	CSS	
212600	HSE	Helium System Equipment	CHS	M	CSS	
212610	HPTX	Helium Pressure Sensor	CHS	E	CSS	
212620	VTLHTR	Ventline External Heaters	CHS	E	CSS	
212630	TPTSTHERM	Tank Platinum Surface Thermometers	CHS	E	CSS	
212640	VNOZ	Ventile Nozzels	CHS	M	CSS	
212650	VACMSENS	Vacuum Measurement Sensors	CHS	E	CSS	
213000	CIS	Cryostat Insulation S/S	CIS	I	I	
213100	CTS	Cylinder Thermal Shields	CIS	I	ITS	
213110	1CTS	1st Cylinder Thermal Shield	CIS	I	ITS	
213120	2CTS	2nd Cylinder Thermal Shield	CIS	I	ITS	
213130	3CTS	3rd Cylinder Thermal Shield	CIS	I	ITS	
213200	ULS	Upper&Lower Thermal Shields	CIS	I	ITS	
213210	LBHTS	LowerBulkheadThermal Shield	CIS	I	ITS	
213211	1LBTS	1st Lower Bulkhead Thermal Shield	CIS	I	ITS	
213212	2LBTS	2nd Lower Bilkhead Thermal Shield	CIS	I	ITS	
213213	3LBTS	3rd Lower Bulkhead Thermal Shield	CIS	I	ITS	
213220	UBHTS	Upper Bulkhead Thermal Shields	CIS	I	ITS	
213221	1UBTS	1st Upper Bulkhead Thermal Shield	CIS	I	ITS	
213222	2UBTS	2nd Upper Bulkhead Thermal Shield	CIS	I	ITS	
213223	3UBTS	3rd Uppper Bulkhead Thermal Shield	CIS	I	ITS	
213300	OBS	Otical Bench&Beam Pattern Shield	CIS	I	ITS	
213400	CMLI	Cryostat MLI	CIS	I	IML	
213410	CVV MLI	Cryostat Vacuum Vessel MLI	CIS	I	IML	

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Item-Code	Item-Identifier	Item Name	Subsystem Affiliation	Item-Type	Loca-tion	New
213411	CYMLI	CVV Cylinder MLI	CIS	I	IML	
213412	LBMLI	Lower Bulkhead MLI	CIS	I	IML	
213413	UBMLI	Upper Bulkhead MLI	CIS	I	IML	
213420	CC MLI	Cryostat Cover MLI	CIS	I	IML	
213430	CA MLI	Cavity MLI	CIS	I	IML	
213440	CY TS MLI	Cylinder Thermal Shields MLI	CIS	I	IML	
213441	1CYTSMLI	1st Cylind. Therm Shd MLI	CIS	I	IML	
213442	2CYTSMLI	2nd Cylind. Therm.Shd MLI	CIS	I	IML	
213443	2CYTSMLI	3rd Cylind. Therm. Shd MLI	CIS	I	IML	
213450	UL TS MLI	Upper & Lower Thermal Shields MLI	CIS	I	IML	
213451	1RSLBMLI	1st Rad Shd Lower B.Head MLI	CIS	I	IML	
213452	1RSUBMLI	1st Rad Shd Upper B.Head MLI	CIS	I	IML	
213453	2RSLBMLI	2nd Rad Shd Lower B.Head MLI	CIS	I	IML	
213454	2RSUBMLI	2nd Rad Shd Upper B.Head MLI	CIS	I	IML	
213455	3RSLBMLI	3rd Rad Shd Lower B.Head MLI	CIS	I	IML	
213456	3RSUBMLI	3rd Rad Shd Upper B.Head MLI	CIS	I	IML	
213460	OBS MLI	Optical Bench Shield MLI	CIS	I	IML	
213470	HEIITMLI	He II Tank MLI	CIS	I	IML	
213480	HEITMLI	He I Tank MLI	CIS	I	IML	
213490	ISSMLI	Instr. Sec. Struct. MLI	CIS	I	IML	
213491	LOUMLI	LOU MLI	CIS	I	IML	
213492	BOLAMLI	BOLA MLI	CIS	I	IML	
213493	WGMLI	Wave Guides MLI	CIS	I	IML	
214000	CES	Cryostat Electrical Assembly	CES	E	EL	
214100	CCU	Cryostat Control Unit	CES	E	17	
214200	CCI	C.Control Instrument. Delete	CES	E	30	
214210	CCITS	CC. Instr. Temp Sens (>21T*) delete	CES	E	30	
214220	CCIPS	CC. Instr. Press Sens (>21P*) dele	CES	E	30	
214230	CCITAC	CC. Instr. Accelerm (> 21A*) delet	CES	E	30	
214300	PCH	PLM Cryostat Harness	CES	E	30	
214310	CCH	Cryostat Control Harness	CES	E	30	
214311	CCCHARN	Cryo CVV Intern Harn (C)	CES	E	EL	
214312	CCIHARN	Cryo CVV Extern. Harn (I)	CES	E	EL	
214313	CCSHARN	Cryo SVM CB to Pan Harn (S)	CES	E	EL	
214314	CCISH	Cryo Contr. Instrum. Harn	CES	E	EL	
214320	SIH	Scient Instr. Harness	CES	E	INS	
214321	CHSPHARN	CVV Int HIFI SPIRE PACS Harn (Cold)	CES	E	EL	
214322	IHSPHARN	Ext HIFI SPIRE PACS Harn (Interm)	CES	E	EL	
214323	SHPSHARN	SVM Pan HIFI PACS SPIRE Har(Warm)	CES	E	EL	
214331	CCHUSFCB	CCH USF Con. Brack. Quadr. +Z +Y	CES	E	57	
214332	USFW-CB	CCH USF Con. Brack. Quadr. -Y +Z	CES	E	57	1C
214333	USFW-CB	CCH USF Con. Brack. Quadr. -Z -Y	CES	E	57	1C
214334	USFW-CB	CCH USF Con. Brack. Quadr. +Z -Y	CES	E	57	1C
214341	LSFW-CB	CCH LSF Con. Brack. Quadr. +Y/+Z	CES	E	EL	1C
214342	LSFW-CB	CCH LSF Con. Brack. Quadr. -Y/+Z	CES	E	EL	1C
214343	LSFW-CB	CCH LSF Con. Brack. Quadr. -Y/-Z	CES	E	EL	1C
214344	LSFW-CB	CCH LSF Con. Brack. Quadr. +Y/-Z	CES	E	EL	1C
214411	OBS-CB	CCH OB Shd Brack. Near Strap 1	CES	E	72	1C
214421	TS-CB	Low Bulkh Shd1 Brack. near Strap 18	CES	E	53	1C
214422	TS-CB	Cyl Shd 1 Brack. near Strap 18	CES	E	53	1C
214423	TS-CB	Up Bulkh 1Shd Br. near Str 08 J/02	CES	E	53	1C
214424	TS-CB	Up Bulkh 1Shd Br. near Str 08 J/P01	CES	E	53	1C
214425	TS-CB	Up Bulkh 1Shd Br. near Str 08 J/P03	CES	E	53	1C
214441	TS-CB	Low Bulkh Shd2 Brack. near Strap 18	CES	E	53	1C
214442	TS-CB	Cyl Shd 2 Brack. near Strap 18	CES	E	53	1C
214443	TS-CB	Up Bulkh 2Shd Br. near Str 08 J/P02	CES	E	54	1C
214444	TS-CB	Up Bulkh 2Shd Br. near Str 08 J/P01	CES	E	54	1C

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214461	TS-CB	Low Bulkh Shd3 Brack. near Strap 18	CES	E	53	1C
214462	TS-CB	Cyl Shd 3 Brack. near Strap 18	CES	E	53	1C
214463	TS-CB	Up Bulkh 3Shd Br. near Str 08 J/P01	CES	E	55	1C
214464	TS-CB	Up Bulkh 3Shd Br. near Str 08 J/P01	CES	E	55	1C
21A101	HTTA101	HTT Acc. A101	CES	E	61	
21A102	HTTA102	HTT Acc. A102	CES	E	61	
21A103	HTTA103	HTT Acc. A103	CES	E	61	
21A104	HTTA104	HTT Acc. A104	CES	E	61	
21A105	HTTA105	HTT Acc. A105	CES	E	61	
21A106	HTTA106	HTT Acc. A106	CES	E	61	
21A107	HTTA107	HTT Acc. A107	CES	E	61	
21A108	HTTA108	HTT Acc. A108	CES	E	61	
21A109	HTTA109	HTT Acc. A109	CES	E	61	
21A201	OBA201	OB Acc. A201	CES	E	70	
21A202	OBA202	OB Acc. A202	CES	E	70	
21A203	OBA203	OB Acc. A203	CES	E	70	
21A204	OBA204	OB Acc. A204	CES	E	70	
21A205	OBA205	OB Acc. A205	CES	E	70	
21A206	OBA206	OB Acc. A206	CES	E	70	
21A207	PACSA207	PACS Acc. A207	CES	E	70	1C
21A208	PACSA208	PACS Acc. A208	CES	E	70	1C
21A421	A4211stSh	A421 1st Shd Accelerometer	CES	E	53	
21A422	A422 1stSh	A422 1st Shd Accelerometer	CES	E	53	
21A701	HOTA701	HOT Acc. A701	CES	E	62	
21A702	HOTA702	HOT Acc. A702	CES	E	62	
21A703	HOTA703	HOT Acc. A703	CES	E	62	
21D101	DLCM 1	HTT DLCM 1	CES	E	61	1C
21D102	DLCM 2	HTT DLCM 2	CES	E	61	1C
21H103	HTTH103	HTT Depl Htr H103	CES	E	61	
21H104	HTTH104	HTT Depl Htr H104	CES	E	61	
21H331	HT 9.x M1	Telesc Htr Line 9 M1	CES	E	83	
21H332	HT 3.x M1	Heater Line 3 M1	CES	E	83	
21H333	HT 4.x M1	Heater Line 4 M1	CES	E	83	
21H334	HT 5.x M1	Heater Line 5 M1	CES	E	83	
21H335	HT 6.x M1	Heater Line 6 M1	CES	E	83	
21H336	HT 7.x M1	Heater Line 7 M1	CES	E	83	
21H337	HT 8.x M1	Heater Line 8 M1	CES	E	83	
21H338	HT 1 M2	Heater Line 1 M2	CES	E	83	
21H339	HT 2 M2	Heater Line 2 M2	CES	E	83	
21H501	HighPwH501	High Pwr Htr H501	CES	E	63	
21H502	ExVentH502	Ext. Ventl. Htr H502	CES	E	63	
21H503	ExVentH503	Ext. Ventl. Htr H503	CES	E	63	
21H701	HOTH701	HOT Htr H701	CES	E	62	
21H702	HOTH702	HOT Htr H702	CES	E	62	
21L101	HTTL101	HTT Liq Level Sens L101	CES	E	61	
21L102	HTTL102	HTT Liq Level Sens L102	CES	E	61	
21L701	HOTL701	HOT Liq Level Sens L701	CES	E	62	
21L702	HOTL702	HOT Liq Level Sens L702	CES	E	62	
21N601	CovN601	C.Cover Non Expl Dev 601 (211310)	CES	E	36	
21N602	CovN602	C.Cover Non Expl Dev 602 (211310)	CES	E	36	
21P101	HTTP101	HTT Press. Sensor P101	CES	E	61	
21P102	HTTP102	HTT Press. Sensor P102	CES	E	61	
21P501	ExVentP501	Ext. Ventl. PressTrans P503	CES	E	63	
21P502	ExVentP502	Ext. Ventl. PressTrans P502	CES	E	63	
21P701	HOTP701	HOT PressTrans P701	CES	E	62	

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21PPS1	HTTPPS1	HTT PhaseSeparator 1	CES	E	61	
21S601	CovSNO601	Cover StatMon Nom op (211310)	CES	E	CC	
21S602	CovSNC602	Cover StatMon Nom cl (211310)	CES	E	CC	
21S603	CovSRO603	Cover StatMon Red op (211310)	CES	E	CC	
21S604	CovSRC604	Cover StatMon Red cl (211310)	CES	E	CC	
21T102	HTTT102	HTT TempSensT102 DL2CM2	CES	E	61	
21T103	HTTT103	HTT TempSens P T103	CES	E	61	
21T104	HTTT104	HTT TempSens P T104	CES	E	61	
21T105	HTTT105	HTT TempSens P T105	CES	E	61	
21T106	HTTT106	HTT TempSens C T106	CES	E	61	
21T107	HTTT107	HTT TempSens C T107	CES	E	61	
21T111	HTTT111	HTT PhaseSeparator T111	CES	E	61	
21T112	HTTT112	HTT PhaseSeparator T112	CES	E	61	
21T113	HTTT113	HTT TempSens C T113	CES	E	61	
21T114	HTTT114	HTT TempSens C T114	CES	E	61	
21T202	OBAT202	T202 PACS A +Zft Tsens	CES	E	70	
21T207	OBAT207	T207 HIFI E L2-Y+Zft Tsens	CES	E	70	
21T208	OBAT208	T208 HIFI B L2-Y+Zft Tsens	CES	E	70	
21T211	OBIST211	T211 HIFI InstrShd Tsens	CES	E	70	
21T212	OBIST212	T212 PACS Instr Shd Tsens	CES	E	70	
21T213	OBIST213	T213 SPIRE Instr Shd Tsens	CES	E	70	
21T221	OBAT221	T221 PACS A L0CStr1 Tsens	CES	E	70	
21T222	OBAT222	T222 PACS B L0CStr2 Tsens	CES	E	70	
21T223	OBAT223	T223 PACS A L0CStr3 Tsens	CES	E	70	
21T224	OBAT224	T224 PACS B L0CStr4 Tsens	CES	E	70	
21T225	OBAT225	T225 SPIRE B L0Str5 Tsens	CES	E	70	
21T226	OBAT226	T226 SPIRE B L0Str6 Tsens	CES	E	70	
21T227	OBAT227	T227 SPIRE A L0Str7 Tsens	CES	E	70	
21T228	OBAT228	OBCS TempSens C T228	CES	E	70	
21T231	OBAT231	T231 PACS B L1inlet Tsens	CES	E	70	
21T232	OBAT232	T232 PACS A L1dsStr1 Tsens	CES	E	70	
21T233	OBAT233	T233 PACS B L1dsStr2 Tsens	CES	E	70	
21T234	OBAT234	T234 PACS A L1dsSTR3 Tsens	CES	E	70	
21T235	OBAT235	T235 SPIRE B L1usStr4 Tsens	CES	E	70	
21T236	OBAT236	T236 SPIRE A L1dsStr4 Tsens	CES	E	70	
21T237	OBAT237	T237 HIFI B L1Str5 Tsens	CES	E	73	
21T242	OBAT242	T242 PACS B L1FPUStr1 Tsens	CES	E	77	
21T244	OBAT244	T244 HIFI A L1Str5 Tsens	CES	E	73	
21T246	OBAT246	T246 SPIRE A Str2 Tsens	CES	E	77	
21T247	OBAT247	T247 SPIRE B L3JFSStr1 Tsens	CES	E	77	
21T248	OBAT248	T248 SPIRE B L1Str4 Tsens	CES	E	77	
21T249	OBAT249	T249 SPIRE EGSE JFS Tsens	CES	E	77	
21T250	OBAT250	T250 SPIRE A JFS Tsens	CES	E	77	
21T251	OBAT251	T251 SPIRE EGSE JFP Tsens	CES	E	77	
21T252	OBAT252	T252 SPIRE B JFP Tsens	CES	E	77	
21T253	OBAT253	T253 SPIRE EGSE Centfoot Tsens	CES	E	77	
21T254	OBAT254	T254 SPIRE B Centfoot Tsens	CES	E	77	
21T255	OBAT255	T255 SPIRE EGSE +Y-Z foot Tsens	CES	E	77	
21T256	OBAT256	T256 SPIRE B +Y-Z foot Tsens	CES	E	77	
21T258	OBAT258	T258 SPIRE A -Y-Z foot Tsens	CES	E	77	
21T301	SunshIT301	Sunshld TempSens P T301	CES	E	81	
21T302	SunshIT302	Sunshld TempSens P T302	CES	E	81	
21T303	SunshIT303	Sunshld TempSens P T303	CES	E	81	
21T304	SunshIT304	Sunshld TempSens P T304	CES	E	81	
21T305	SunshIT305	Sunshld TempSens P T305	CES	E	81	
21T306	SunshIT306	Sunshld TempSens P T306	CES	E	81	

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21T311	SunshaT311	Sunshade TempSens P T311	CES	E	82	
21T312	SunshaT312	Sunshade TempSens P T312	CES	E	82	
21T313	SunshaT313	Sunshade TempSens P T313	CES	E	82	
21T314	SunshaT314	Sunshade TempSens P T314	CES	E	82	
21T315	SunshaT315	Sunshade TempSens P T315	CES	E	82	
21T316	SunshaT316	Sunshade TempSens P T316	CES	E	82	
21T321	SVMSht321	SVMShtd TempSens P T321	CES	E	SVM	
21T322	SVMSht322	SVMShtd TempSens P T322	CES	E	SVM	
21T323	SVMSht323	SVMShtd TempSens P T323	CES	E	SVM	
21T324	SVMSht324	SVMShtd TempSens P T324	CES	E	SVM	
21T331	HTTH331	Telesc. Therm 331 CCU A	CES	E	83	
21T332	HTTH332	Telesc. Therm 332 CCU B	CES	E	83	
21T333	HTTH333	Telesc. Therm 333 CCU A	CES	E	83	
21T334	HTTH334	Telesc. Therm 334 CCU B	CES	E	83	
21T335	HTTH335	Telesc. Therm 335 CCU A	CES	E	83	
21T336	HTTH336	Telesc. Therm 336 CCU B	CES	E	83	
21T337	HTTH337	Telesc. Therm 337 CCU A	CES	E	83	
21T338	HTTH338	Telesc. Therm 338 CCU B	CES	E	83	
21T339	HTTH339	Telesc. Therm 339 CCU A	CES	E	83	
21T340	HTTH340	Telesc. Therm 340 CCU A	CES	E	83	
21T341	HTTH341	Telesc. Therm 341 CCU B	CES	E	83	
21T342	HTTH342	Telesc. Therm 342 CCU A	CES	E	83	
21T421	1stShT421	1st Shld lp TempSens P T421	CES	E	53	
21T422	1stShT422	1st Shld cp TempSens P T422	CES	E	53	
21T423	T4231stSh	T423 1st Shd uc TSens P	CES	E	53	
21T424	T4241stSh	T424 1st Shd uc TSens P	CES	E	53	
21T441	1stShT441	2nd Shld lp TempSens P T441	CES	E	54	
21T442	2ndShT442	2nd Shld cp TempSens P T442	CES	E	54	
21T443	T4432ndSh	T443 2nd Shd uc Tsens	CES	E	54	
21T444	T4442ndSh	T444 2nd Shd uc TSens P	CES	E	54	
21T461	3rdShT461	3rd Shld lp TempSens P T461	CES	E	55	
21T462	3rdShT462	3rd Shld cp TempSens P T462	CES	E	55	
21T463	T4633rddSh	T463 3rd Shd uc TSens P	CES	E	55	
21T464	T4643rddSh	T464 3rd Shd uc TSens P	CES	E	55	
21T501	ExVentT501	Ext.Ventl. TempSens P T501	CES	E	63	
21T502	ExVentT502	Ext.Ventl. TempSens NCrN T501	CES	E	63	
21T504	ExVentT504	Ext.Ventl. TempSens P T504	CES	E	63	
21T505	ExVentT505	Ext.Ventl. TempSens P T505	CES	E	63	
21T506	ExVentT506	Ext.Ventl. TempSens P T506	CES	E	63	
21T507	ExVentT507	Ext.Ventl. Unit TempSens P T507	CES	E	63	
21T601	CovInT601	Cov.Inside TempSens T601 (211311)	CES	E	CC	
21T602	CovInT602	Cov.Inside TempSens T602 (211311)	CES	E	CC	
21T651	CovTP651	Cav. TempSens P T651 (exch. 211314)	CES	E	CC	
21T652	CovTC652	Cav. TempSens C T652 (exch. 211315)	CES	E	CC	
21T653	CovTP653	Cav. TempSens P T653 (exch 211319 )	CES	E	CC	
21T654	CovTC654	Cav. TempSens C T654 (exch 21131A)	CES	E	CC	
21T701	HOTT701	HOT TempSens P T701	CES	E	62	
21T702	HOTT702	HOT TempSens C T702	CES	E	62	
21T703	HOTT703	HOT TempSens C T703	CES	E	62	
21T704	HOTT704	HOT TempSens P T704	CES	E	62	
21T801	LChT801	LowChain TempSens P T801	CES	E	51	
21T802	LChT802	LowChain TempSens P T802	CES	E	51	
21T803	LChT803	LowChain TempSens P T803	CES	E	51	
21T804	LChT804	LowChain TempSens P T804	CES	E	51	2C
21T805	LChT805	LowChain TempSens P T805	CES	E	51	
21T806	LChT806	LowChain TempSens P T806	CES	E	51	2C
21T851	UChT851	UppChain TempSens P T851	CES	E	56	2C

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21T852	UChT852	UppChain TempSens P T852	CES	E	56	
21T853	UChT853	UppChain TempSens P T853	CES	E	56	2C
21T861	USFT861	UppSpatFW TempSens P T861	CES	E	57	
21T862	TS-CB	UppSpatFW TempSens P T862	CES	E	57	1C
21T901	CVVT901	CVV ext TempSens P T901	CES	E	30	
21T902	CVVT902	CVV ext TempSens P T902	CES	E	30	
21T903	CVVT903	CVV ext TempSens P T903	CES	E	30	
21T904	CVVT904	CVV ext TempSens P T904	CES	E	30	
21T905	CVVT905	CVV ext TempSens P T905	CES	E	30	
21T906	CVVT906	CVV ext TempSens P T906	CES	E	30	
21T907	CVVT907	CVV ext +YRad TempSens P T907	CES	E	42	
21T908	CVVT908	CVV ext +YRad TempSens P T908	CES	E	42	
21T909	CVVT909	CVV ext -YRad TempSens P T909	CES	E	42	
21T910	CVVT910	CVV ext -YRad TempSens P T910	CES	E	42	
21T911	CVVT911	CVV ext TempSens P T911	CES	E	30	
21T912	CVVT912	CVV ext TempSens P T912	CES	E	30	
21T921	CVVT921	CVV ext BOLA BB TempSens P T921	CES	E	43	
21T922	CVVT922	CVV ex tBOLA BB TempSens P T922	CES	E	43	
21T931	CVVT931	CVV ext Lou BB TempSens P T931	CES	E	44	
21T932	CVVT932	CVV ext Lou Rad TempSens P T932	CES	E	44	
21T933	CVVT933	CVV ext Lou Rad TempSens PT933	CES	E	44	
21T934	CVVT934	CVV ext WaveGd Lou TempSens P T9	CES	E	44	
21T935	CVVT935	CVV ext WaveGd Lou TempSens P T9	CES	E	E2	
21V102	HTTV102	HTT EI Valve V102	CES	E	61	
21V103	HTTV103	HTT EI Valve V103	CES	E	61	
21V104	HTTV104	HTT EI Valve V104	CES	E	61	
21V105	HTTV105	HTT EI Valve V105	CES	E	61	
21V106	HTTV106	HTT EI Valve V106	CES	E	61	
21V501	ExVentV501	Ext. Ventl. EI Valve V501	CES	E	63	
21V503	ExVentV503	Ext. Ventl. EI Valve V503	CES	E	63	
21V504	ExVentV504	Ext. Ventl. EI Valve V504	CES	E	63	
21V505	ExVentV505	Ext. Ventl. EI Valve V505	CES	E	63	
21V701	HOTV701	HOT EI Valve V701	CES	E	62	
21V702	HOTV702	HOT EI Valve V702	CES	E	62	
215000	ISS	Instrument Secondary Structure	ISS	M	CSS	
215200	LOUSS	LOU Support Structure	ISS	M	30	
215300	OWF	Optical Window & Filters	ISS	M	70	
215400	SFOWF	Support Frame Opt. Window & Filter	ISS	M	70	
215500	OBCB	Opt Bench Harn Con. Bra (214411)	ISS	M	70	
215600	LOU WG MS	LOU Waveguides Mounting Studs	ISS	M	80	
215700	ITERMCON	Instrument Thermal Connectors	ISS	M	?	
215800	ALGREF	PLM & OB Alignment References	ISS	M	?	
<b>Telesc. Mounting Structure (Item Code: 22*)</b>						
220000	HTM	Herschel Telescope Module	TMS	M	83	
221000	HTL	Herschel Telesc. Mounting Struts	TMSCVV	M	83	
222000	TMS	Telescope Mounting Struts MLI	TMSMLI	M	83	
223000	HTMF	Herschel Telesc Mount. Frame	TMSMF	M	83	
223100	HTSSCB	Hersch Telesc M.Fr Con Bra (141100)	TMSMF	E	83	
<b>HSS (Item Code: 23*)</b>						
230000	HSS	Herschel Sunshield & Sunshade	HSS	M	81	
231000	SSS	Sunshield/Sunshade Structure	HSSSTR	M	81	



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<b>Item-Code</b>	<b>Item-Identifier</b>	<b>Item Name</b>	<b>Subsystem Affiliation</b>	<b>Item-Type</b>	<b>Loca-tion</b>	<b>New</b>
231100	SS	Sun Shield	HSSSTR	M	81	
231110	SSP	Sun Shield Panels	HSSSTR	M	81	
231120	SSPS	Support	HSSSTR	M	81	
231200	SSH	Sunshade	HSSSTR	M	81	
231210	SSDP	Sunshade Panels	HSSSTR	M	81	
231220	SHDS	Sunshade Support	HSSSTR	M	81	
231230	HSS CB	Herschel Sunshade Con Bracket	HSSSTR	E	82	
232000	HSPGS	Solar Power Generator System	SPG	E	81	
232100	HSPG	HERSCHEL Solar Power Generator	SPG	E	81	
232200	HSPGT	HERSCHEL SolarArray Termistor	SPG	E	81	
232300	SPGC	Solar Power Generator Wiring & Cell	SPG	E	81	
233000	SRS?	Sunshade Radating Surface ?	THERMC	M	81	
<b><u>PLM SVM IF Structure (Item Code: 25*)</u></b>						
250000	PLM SVM IF	PLM SVM Interfaces Structure	PLM/SVM IF	-	HLS	
<b><u>H SVM (Item Code: 3x*)</u></b>						
300000	HSVM	Herschel SVM	SVM	-	SVM	
<b><u>H SVM INSTR/TELE/LAUNCH CB (Item Code: 31*)</u></b>						
310000	HSVMCB	Herschel Service Modul CB	SVM	E	SVM	
311000	HHSVMCB	HIFI Con. Bracket	HIFISVMCB	E	20	
311100	HHSVMCB1	HIFI SVM CB FCU FPU P01-P10	HIFISVMCB	E	25	
311200	HHSVMCB2	HIFI SVM CB LCU LOU P11-P17	HIFISVMCB	E	26	
311300	HHSVMCB3	HIFI SVM CB HRI WEH FPU Coax	HIFISVMCB	E	26	
312000	HSSVMCB	SPIRE Con. Bracket	SPIRESVMCB	E	27	
312100	HSSVMCB1	SPIRE SVM CB 1 Bundle 03/04/05	SPIRESVMCB	E	27	
312200	HSSVMCB2	SPIRE SVM CB2 Bundle 1/2/6/7/8/9	SPIRESVMCB	E	27	
312300	HSSVMCB3	SPIRE SVM CB3 Bundle 10/11/12/13	SPIRESVMCB	E	27	
313000	HPSVMCB	PACS Con. Bracket	PACSSVMCB	E	28	
313100	HPSVMCB1	PACS SVM CB 1 (XP 1to 8)	PACSSVMCB	E	28	
313200	HPSVMCB2	PACS SVM CB 2 (XP 19 to 24)	PACSSVMCB	E	22	
314000	TSCSVMCB	TEL Con. Bracket	CCSSVMCB	E	21	
314100	TSCSVMCB	Cryo Cover SVM CB1 Sensors	CCSSVMCB	E	21	
314200	CCSVMCB	Cryo Cover SVM CB	CCSSVMCB	E	21	
314300	TSCSVMCB3	TEL-SVM CB3 Heaters to S/C	CCSSVMCB	E	21	
315000	HEGSECB	EGS/UMB. SVM CB Place Holder	EGSE CB	E	21	
315100	SVM EGSEC	Sens ACC to EGSE&Facilty R/O	EGSE CB	E	28	
315200	HACCELCB	Accel. CCH CB	EGSE CB	E	28	
316000	Launch	Launch IF CB tbd	EGSE CB	-	28	
316100	CCU EV CB	Ext Ventl to CCU CB	EXT VTIL CB	E	26	
<b><u>TBD (Item Code: 32*)</u></b>						
321000	CCHCB	Herschel SVM CCH CB Place Holder	CCH CB	-	28	
321100	EGSE CB	EGSE Con Bra	CCH CB	E	26	
321200	CCU A CB	Herschel SVM CCU A CB	CCH CB	E	28	
321300	CCU B CB	Herschel SVM CCU B CB	CCH CB	E	28	
321400	UMB-CB	Herschel SVM UMB I/F CB	CCH CB	E	10	2C

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<b><u>H SVM (Item Code: 3x*)</u></b>						
331100	SVMSH	SVM Shield Con. Bracket	SVM	E	SVM	
<b><u>H SVM (Item Code: 3x*)</u></b>						
390000	HSC_UMBI/F	Herschel S/C Umbilical Interface	CCH CB	-	28	
<b><u>H GSE (Item Code: 4*)</u></b>						
400000	HGSE	Herschel GSE	GSE	M	GSE	
<b><u>H S/C GSE (Item Code: 41*)</u></b>						
410000	HSCGSE	Herschel S/C GSE	H S/C GSE	M	GSE	
411000	HSCMGSE	Herschel S/C MGSE	H S/C GSE	M	GSE	
411100	CONT	Transport Container	H S/C GSE	M	GSE	
412000	S/CEGSE	Herschel S/C EGSE	H S/C GSE	M	GSE	
413000	S/CCVSE	Herschel S/C CVSE	H S/C GSE	-	GSE	
414000	S/COGSE	Herschel S/C OGSE	H S/C GSE	-	GSE	
411200	MPA	Mass Property Adapter	H S/C MGSE	M	GSE	
411300	VTA	Vibration Test Adapter	H S/C MGSE	M	GSE	
411400	TTA	Thermal Test Adapter	H S/C MGSE	M	GSE	
411500	RTAA	Raotary Table Alignment Adapter	H S/C MGSE	M	GSE	
411600	TTAP	Thermal Test Adapter	H S/C MGSE	M	GSE	
412100	S/CCCS	Herschel S/C Centr. Checkout System	H S/C EGSE	-	GSE	
412200	S/CCDMUSC	Herschel S/C CDMU SCOE	H S/C EGSE	E	GSE	
412300	S/CPWRSCO	Herschel S/C Power SCOE	H S/C EGSE	E	GSE	
412400	S/CACMSSC	Herschel S/C ACMS SCOE	H S/C EGSE	E	GSE	
412500	S/CTT&CSCO	Herschel S/C TT&C SCOE	H S/C EGSE	E	GSE	
412600	S/CTM/TCFE	Herschel S/C TM/TC Frontend	H S/C EGSE	E	GSE	
<b><u>H EPLM GSE (Item Code: 42*)</u></b>						
420000	EPGSE	Herschel EPLM GSE	EPLM GSE	-	GSE	
421000	EPMGSE	Herschel EPLM MGSE	EPLM GSE	-	GSE	
422000	EPEGSE	Herschel EPLM EGSE	EPLM GSE	-	GSE	
423000	EPCVSE	Herschel EPLM CVSE	EPLM GSE	-	GSE	
424000	EPOGSE	Herschel EPLM OGSE	EPLM GSE	-	GSE	
425000	SMMTHDUM	SM Mass & Thermal Dummies	EPLM GSE	M	GSE	
425100	SMINSTDUM	SM Instrument Dummies	EPLM GSE	M	GSE	
422100	EPCCS	EPLM Central Ceckout System	EPLM EGSE	E	GSE	
422200	CryoSCOE	EPLM Cryo SCOE	EPLM EGSE	E	GSE	
422210	PFMCRSC	PFM Cryo Scoe	EPLM EGSE	-	GSE	
422230	ACCRO UNIT	Facility Accelerometer RO Unit	EPLM EGSE	-	GSE	
422300	EPCDMUFE	EPLM CDMU DFE	EPLM EGSE	E	GSE	
422400	EPLM SCOE	PLM SCOE	EPLM EGSE	E	GSE	
422500	EPTC	EPLM Cabels for TV Test	EPLM EGSE	E	GSE	
425110	SMHIFIDUM	SM HIFI Dummies		M	GSE	
425111	SMHFPUD	SM HIFI FPU Dummy		M	GSE	
425112	SMHLOUD	SM HIFI LOU Dummy		M	GSE	
425113	SMHWGD	SM HIFI Waveguide Dummy		M	GSE	

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Item-Code	Item-Identifier	Item Name	Subsystem Affiliation	Item-Type	Loca-tion	New
425120	SMSDUM	SM SPIRE Dummies		M	GSE	
425121	SMSFPUD	SM SPIRE FPU Dummy		M	GSE	
425122	SMSJFBD	SM SPIRE JFET RF Boxes		M	GSE	
425123	SMSJFSD	SM SPIRE JFET Spectr. Dummy		M	GSE	
425124	SMSJFPD	SM SPIRE JFET Photom. Dummy		M	GSE	
425130	SMPDUM	SM PACS Dummies		M	GSE	
425131	SMPFPUD	SM PACS FPU Dummy		M	GSE	
425132	SMPBOLD	SM PACS Bolom. Ampl. Dummy		M	GSE	
425200	SMTDUM	SM Telescope Dummy		M	GSE	
422220	EQMCRSC	EQM Cryo Scoe	HPLMEQM	-	GSE	
<b><u>H EX GSE (Item Code: 43*)</u></b>						
431100	EXRO UNIT	Herschel read out unit	HEXEGSE	E	GSE	
<b><u>H SVM (Item Code: 3x*)</u></b>						
610100	SVM PCDU	tbd	SVM	E	?	
<b><u>H SVM (Item Code: 3x*)</u></b>						
900000	HSVM	Herschel Service Module	SVM	-	SVM	
<b><u>EPLM (Item Code: 2x*)</u></b>						
AP_E03	A321100P01	Arming Plug on 321100 P01	CES	E	HAR	2C
<b><u>EPLM (Item Code: 2x*)</u></b>						
DI_C01	DI_DCE16	Dummy Item 01 for spare wire	CES	E	57	1C
DI_C02	D214342J01	Dummy item 03 for spare wire	CES	E	52	1C
DI_E01	DI_EGSE01	Dummy item 02 for spare wire	CES	E	20	1C
DI_E02	D311200J01	Dummy item 04 for spare wire	CES	E	20	1C

## Annex III EMC Category

<b>Astrium GmbH</b>	<b>EMC Category List</b>	Doc. No. : HP-2-ASED-IC-0001	
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<b>EMC-Code</b>	<b>EMC-Abbreviation</b>	<b>EMC-Category</b>
1 -	Pwr	Pwr
1 C	PwrCry	Pwr H inside Cryostat
1 F	PwrFPU	Pwr H internal to FPU
1 I	PwrInt	Pwr H fr CVVFT to SVMCB
1 S	PwrBr	Pwr H fr SVMCB to W.Units
1 T	PwrTes	Pwr H Test Equipment
1 U	PwrSC	Pwr H fr W.Units to S/C
1 W	PwrPan	Pwr H among W.Units on SVM Pan.
2 -	SIG	Signal
2 C	SIH CH	Sig H in Cryostat
2 F	SIGFPU	Sig H internal to FPU
2 I	SIH IH	Sig H fr CVVFT to SVMCB
2 S	SIH WH	Sig H fr SVMCB to W. Units
2 T	SIGTES	Sig H Test Equipment
2 U	SigSC	Sig H fr W.Units to S/C
2 W	SigPan	Sig H among W.Units on SVM Panels
3 -	LLSig	Low Level Analogue Signal
3 C	SIH CH	LL Sig H in Cryostat
3 F	SigFPU	LL Sig H internal to FPU
3 I	SIH IH	LL Sig H fr CVVFT to SVMCB
3 S	SIH WH	LL Sig H fr SVMCB to W.Units
3 T	LLSigT	LL Sig H Test Equipment
3 U	LLSgSC	LL Sig H from Warm Units to S/C
3 W	SigPan	LL Sig H among W.Units on SVM Panels
4 -	RF	RF Signal
6 -	UL	Umbilical Link
7 -	COH	Check-out Harness
9 -	TBD	not known / not yet defined

## Annex IV Cable Type

Cable Code	Cable Type	Cable Type Name	No. of		No. of Shields
			Cores	Twisted	
0	----	Cable Type TBD	99	No	99
1	010B0	1Core, no Shd, Core Brass	1	No	0
1	010S0	1Core, no Shd, Core St.	1	No	0
4	011BS	1Core, 1Shd, Core Brass, Shd St.	1	No	1
4	011SS	1Core, 1Shd, Core St., Shd St.	1	No	1
7	012BS	1Core, 2Shd, Core Brass, Shd St.	1	No	2
7	012SS	1Core, 2Shd, Core St., Shd St.	1	No	2
2	020B0	02Core, no Shd, Core Brass	2	Yes	0
2	020S0	02Core, no Shd, Core St.	2	Yes	0
5	021BS	2Core, 1Shd, Core Brass, Shd St.	2	Yes	1
5	021SS	2Core, 1Shd, Core St., Shd St.	2	Yes	1
5	022BS	2Core 2Shd, Core Br,Shd St.	2	Yes	1
5	022SS	2Core 2Shd, CoreSt.,Shd St.	2	Yes	1
6	031BS	3Core, 1Shd, Core Brass, Shd St.	3	Yes	1
6	031SS	3Core, 1Shd, Core St., Shd St.	3	Yes	1
3	040B0	4Core, no Shd, Core Brass	4	Yes	0
3	040S0	4Core, no Shd, Core St.	4	Yes	0
6	041BS	4 Core, 1Shd, Core Br, Shd St.	4	Yes	1
6	041SS	4 Core, 1Shd, Core St., Shd St.	4	Yes	1
6	051BS	5Core, 1Shd, Core Brass, Shd St.	5	Yes	1
6	051SS	5Core, 1Shd, Core St., Shd St.	5	Yes	1
6	061BS	6Core, 1Shd, Core Brass, Shd St.	6	Yes	1
6	061SS	6Core, 1Shd, Core St., Shd St.	6	Yes	1
6	081SS	8Core, 1Shd, Core St., Shd St.	8	Yes	1
6	091BS	9Core, 1Shd, Core Brass, Shd St.	9	Yes	1
6	111BS	11Core, 1Shd,Core Brass, Shd St.	11	Yes	1
6	111SS	11Core,1Shd, Core St., Shd St.	11	Yes	1
6	121SS	12Core, 1Shd, Core St., Shd St.	12	Yes	1
0	12AXD	12 core , 2 Shd; S,S (4x030S0)	12	Yes	2
6	12AXS	12 core , 1 Shd; S,S (4x030S0)	12	Yes	1
6	191SS	19Core, 1Shd, Core Shd St.	19	Yes	1
6	241SS	24Core, 1Shd, Core St., Shd St.	24	Yes	1
8	CX1--	Coax for HIFI not yet defined	1	No	1
0	NA	no physical wire	0	No	0
7	SD1CC	1Core, 2 Shd, Cop/Cop	1	Yes	1
4	SS1CC	1Core, 1Shd, Core Cop., Shd Cop.	1	No	1
5	T01C0	1Core, no Shd, Core Cop.	1	No	0
0	T02C0	2 Core, No Shd., Copper	2	Yes	0
5	T04C0	4Core, no Shd, Core Copper	4	Yes	0
0	TP2BS	2 x TP Core Brass, OvShd St.	4	Yes	1
0	TP2CC	2 x TP Core Cop., OvShd Cop.	4	Yes	1
0	TP2SS	2 x TP Core Steel, OvShd St.	4	Yes	1
0	TP3BS	3 x TP Core Brass, OvShd St.	6	Yes	1
0	TP3CC	3 x TP Core Cop., OvShd Cop.	6	Yes	1
0	TP6BS	6 x TP Core Brass, OvShd St.	12	Yes	1
0	TP8SS	8 x TP Core St, OvShd St.	16	Yes	1
5	TS2CC	2Core, 1Shd, Core Cop, Shd Cop	2	Yes	1
5	TS2CM	2Core, 1Shd, Core Cop, Shd Mang	2	Yes	1
6	TS3CC	3Core, 1Shd, Core Cop, Shd Cop	3	Yes	1
6	TS4CC	4 Core, 1Shd, Core Cop, Shd Cop	4	Yes	1
6	TS4CM	4 Core, 1Shd, Core Cop,Shd Mang.	4	Yes	1
6	TS5CC	5Core, 1Shd, Core Cop, Shd Cop	5	Yes	1
6	TS6CC	6 core, 1 Shield, Copper/Copper	6	Yes	1
6	TS6CM	6 core , 1 Shield, Copper/Manganin	6	Yes	1
6	TS7CC	7 core, 1 Shield, Copper/Copper	7	Yes	1
0	X01CC	4xTP3C + 2xTP2C	32	Yes	6
0	X02CC	2xTS4CC + 2xTS6CC	20	Yes	4

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<b>Cable Code</b>	<b>Cable Type</b>	<b>Cable Type Name</b>	<b>No. of Cores</b>	<b>Twisted</b>	<b>No. of Shields</b>
0	X03CC	1xTS7CC + 2xTS6CC	19	Yes	3
0	X04CC	2xTS5CC+ 1xTS4CC	14	Yes	3
0	X05CC	1xTS7CC + 1x TS3CC	10	No	2
0	X06CC	1xTS6CC-28 + 1x TS4C-28	10	No	2
0	X07CC	1xTS6CC + 1xTS3CC	9	Yes	2
6	X08BB	6x04030B0 & 2x02030B0	28	Yes	1
0	X09SB	191SS38 + 021BS30	21	Yes	2



## Annex V Cable Characteristic List







## Annex VI Connector Type List

<b>Astrium GmbH</b>	<b>Connector Type List</b>	Doc. No. : HP-2-ASED-IC-0001	
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Connector Type	Manufacturer	Pin / Sock	No. of Pins
>> Dummy Connector	-	-	0
>Dummy connector 20P (PI)	Dummy	P	20
>Dummy connector 20S (Ju)	Dummy	S	20
197-011P18-35P (Junct.)	GLENAIR	P	66
197-011P22-35PN (Junct.)	GLENAIR	P	100
197-011P24-35PN (Junct.)	GLENAIR	P	128
197-012P10-98S (Plug)	GLENAIR	-	6
197-012P18-35S (Plug)	GLENAIR	S	66
197-012P22-35SN (Plug)	GLENAIR	S	100
197-012P24-35SN (Plug)	GLENAIR	S	128
Box Responsible Pin		P	1
Box Responsible Socket		S	1
CCH Spare Position P		P	0
CCH Spare Position S		S	0
Coax Female (50 Ohm)		S	1
Coax Male ( 50Ohm)		P	1
DAMA-15P-NMB-FO	CANNON	P	15
DAMA-15S-NMB-FO	CANNON	S	15
DBMA-25P-NMB-FO	CANNON	P	25
DBMA-25S-NMB-FO	CANNON	S	25
DBMA-44P-NMB-FO	CANNON	P	44
DBMA-44S-NMB-FO	CANNON	S	44
DCM17W5P		P	17
DCM17W5S		S	17
DCM21WA4P		P	21
DCM21WA4S		S	21
DCMA-37P-NMB-FO	CANNON	P	37
DCMA-37S-NMB-FO	CANNON	S	37
DCMA-62P-NMB-FO	CANNON	P	62
DCMA-62S-NMB-FO	CANNON	S	62
DDMA-50P-NMB-FO	CANNON	P	50
DDMA-50S-NMB-FO	CANNON	S	50
DDMA-78P-NMB-FO	CANNON	P	78
DDMA-78S-NMB-FO	CANNON	S	78
DEMA-09P-NMB-FO	CANNON	P	9
DEMA-09S-NMB-FO	CANNON	S	9
ENDEVCO-EN-159	Endevco	S	2
ENDEVCO-EP-159	Endevco	P	2
FLD-P	GLENAIR	P	4
FLD-S	GLENAIR	S	4
MDM09P	GLENAIR	P	9
MDM09S	GLENAIR	S	9
MDM15P	GLENAIR	P	15
MDM15S	GLENAIR	S	15
MDM21P	CANNON	P	21
MDM21S	GLENAIR	S	21
MDM25P	CANNON	P	25
MDM25S	CANNON	S	25
MDM31P	CANNON	P	31
MDM31S	CANNON	S	31
MDM37P	CANNON	P	37
MDM37S	CANNON	S	37
MDM51P	GLENAIR	P	51
MDM51S	GLENAIR	S	51
MRN-4194-15P (NDDM-Pin)	Nanonix-Glenair	P	15
MRN-4194-15p (NDDM-type)	Nanonix-Glenair	P	15
MS27484T10F35S (Plug)	GLENAIR	S	13
MS27484T12F-98PA (PI+Shl)	GLENAIR	P	10

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Connector Type	Manufacturer	Pin / Sock	No. of Pins
MS27484T12F-98PB (Pl+Shl)	GLENAIR	P	10
MS27484T12F35SA	GLENAIR	S	22
MS27484T12F35SB	GLENAIR	S	22
MS27484T12F35SN	GLENAIR	S	22
MS27484T14F18PA	GLENAIR	P	18
MS27484T14F18PB	GLENAIR	P	18
MS27484T14F18PN	GLENAIR	P	18
MS27484T14F18SA	GLENAIR	S	18
MS27484T14F18SB	GLENAIR	S	18
MS27484T14F18SN	GLENAIR	S	18
MS27484T14F35PA	GLENAIR	P	37
MS27484T14F35PB	GLENAIR	P	37
MS27484T14F35SA	GLENAIR	S	37
MS27484T14F35SB	GLENAIR	S	37
MS27484T22F-35P (Pl+Shl)	GLENAIR	P	100
MS27484T22F-35S (Pl+Shl)	GLENAIR	S	100
MS27484T22F35SN	GLENAIR	S	100
MS27497T10F35PA (Junc)	GLENAIR	P	13
MS27497T12F35PA	GLENAIR	P	22
MS27497T12F35PB	GLENAIR	P	22
MS27497T12F35PN	GLENAIR	P	22
MS27497T12F35SA	GLENAIR	S	22
MS27497T12F35SN	GLENAIR	S	22
MS27497T12F98SA	GLENAIR	S	10
MS27497T12F98SB	GLENAIR	S	10
MS27497T14-18PA (Jun.Sh)	GLENAIR	P	18
MS27497T14-18PB (Jun.Sh)	GLENAIR	P	18
MS27497T14F18SA	GLENAIR	S	18
MS27497T14F18SB	GLENAIR	S	18
MS27497T14F18SN	GLENAIR	S	18
MS27497T14F35PA	GLENAIR	P	37
MS27497T14F35Pb	GLENAIR	P	37
MS27497T14F35SA	GLENAIR	S	37
MS27497T14F35SB	GLENAIR	S	37
MS27497T22-35S (Jun.Sh)	GLENAIR	S	100
MS27497T22F35PN	GLENAIR	P	100
MWDM21P w BS	Can/Glen	P	21
MWDM25S w BS	Can/Glen	S	25
MWDM2L-09P-6C3-.630	GLENAIR	P	9
MWDM2L-09S-6C3-.630	GLENAIR	S	9
MWDM2L-15P-6C3-.630	GLENAIR	P	15
MWDM2L-15p-6J7-18p	GLENAIR	P	15
MWDM2L-15S-6C3-.630	GLENAIR	S	15
MWDM2L-15s-6J7-18p	GLENAIR	S	15
MWDM2L-21P-6C3-.630	GLENAIR	P	21
MWDM2L-21S-6C3-.630	GLENAIR	S	21
MWDM2L-25P-6C3-.630	GLENAIR	P	25
MWDM2L-25S-6C3-.630	GLENAIR	S	25
MWDM2L-31P-6C3-.630	GLENAIR	P	31
MWDM2L-37P-6C3-.630	GLENAIR	P	37
MWDM2L-37S-6C3-.630	GLENAIR	S	37
MWDM37P w BS	Can/Glen	P	37
N/A	-	-	0
NDDM15SN-BN460-A	Nanonix-Glenair	S	15
NDDM25PN-BN460	Nanonix-Glenair	P	25
NDDM25SN-BN460-A	Nanonix-Glenair	S	25
Not known Pin	tbd	P	50
Not known Socket	tbd	-	50

<b>Astrium GmbH</b>	<b>Connector Type List</b>	Doc. No. : HP-2-ASED-IC-0001	
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Connector Type	Manufacturer	Pin / Sock	No. of Pins
SCC3401-04401B03-10-35PA	GLENAIR	P	13
SCC3401-04401B03-10-35PB	GLENAIR	P	13
SCC3401-04401B03-12-35PA	GLENAIR	P	22
SCC3401-04401B03-12-35PB	GLENAIR	P	22
SCC3401-04401B03-12-98PA	GLENAIR	P	10
SCC3401-04401B03-12-98PB	GLENAIR	P	10
SCC3401-04401B03-14-18SA	GLENAIR	S	18
SCC3401-04401B03-14-18SB	GLENAIR	S	18
SCC3401-04401B06G-10-35SA	GLENAIR	S	13
SCC3401-04401B06G-10-35SB	GLENAIR	S	13
SCC3401-04401B06G-12-35SA	GLENAIR	S	22
SCC3401-04401B06G-12-35SB	GLENAIR	S	22
SCC3401-04401B06G-12-98SA	GLENAIR	S	10
SCC3401-04401B06G-12-98SB	GLENAIR	S	10
SCC3401-04401B06G-14-18PA	GLENAIR	P	18
SCC3401-04401B06G-14-18PB	GLENAIR	P	18
SCC340100201BDAMA15PNM	GLENAIR	P	15
SCC340100201BDAMA15SNM	GLENAIR	S	15
SCC340100201BDBMA25PNM	CANNON	P	25
SCC340100201BDCMA37PNM	CANNON	P	37
SCC340100201BDCMA37SNM	CANNON	S	37
SCC340100201BDDMA50PNM	CANNON	P	50
SCC340100201BDEMA09SNM	CANNON	S	9
SCC340100201BDEMA9PNMB	GLENAIR	P	9
SCC340100201BDEMA9SNMB	GLENAIR	S	9
SCC340100202BDBMA44PNM	CANNON	P	44
SCC340100202BDBMA44SNM	CANNON	S	44
SCC340100202BDCMA62PNM	CANNON	P	62
SCC340100202BDCMA62SNM	CANNON	S	62
SCC340104401B032235PN	GLENAIR	P	100
SCC340104401B032435PN	GLENAIR	P	128
SCC340104401B06G2235SN	GLENAIR	S	100
SCC340104401B06G2435SN	GLENAIR	S	128
SMA Female	tbd	S	1
SMA Male	tbd	P	1
TBD	-	-	0



## Annex VII Connector Reference List

**Connector  
Reference List**

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HHFPU	111100 J001	HIFI FPU IF1-H SIH-XH-21	Coax Female (50 Ohm)	Box	N/A	1H
HHFPU	111100 J002	HIFI FPU IF2-H SIH-XH-22	Coax Female (50 Ohm)	Box	N/A	1H
HHFPU	111100 J003	HIFI FPU IF1-V SIH-XH-23	Coax Female (50 Ohm)	Box	N/A	1H
HHFPU	111100 J004	HIFI FPU IF2-V SIH-XH-24	Coax Female (50 Ohm)	Box	N/A	1H
HHFPU	111100 J011	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J012	HIFI FPU SIH-XH-01.	MDM09P	Box	N/A	1H
HHFPU	111100 J013	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J014	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J015	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J016	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J017	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J018	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J019	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J020	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J021	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J022	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J023	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J024	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J025	HIFI FPU SIH-XH-02	MDM09S	Box	N/A	1H
HHFPU	111100 J026	HIFI FPU SIH-XH-02	MDM09S	Box	N/A	1H
HHFPU	111100 J027	HIFI FPU SIH-XH-02	MDM09S	Box	N/A	1H
HHFPU	111100 J028	HIFI FPU SIH-XH-02	MDM09S	Box	N/A	1H
HHFPU	111100 J029	HIFI FPU SIH-XH-02	MDM09S	Box	N/A	1H
HHFPU	111100 J032	HIFI FPU SIH-XH-04	MDM09S	Box	N/A	1H
HHFPU	111100 J033	HIFI FPU SIH-XH-04	MDM09S	Box	N/A	1H
HHFPU	111100 J034	HIFI FPU SIH-XH-04	MDM09S	Box	N/A	1H
HHFPU	111100 J035	HIFI FPU SIH-XH-04	MDM09S	Box	N/A	1H
HHFPU	111100 J036	HIFI FPU SIH-XH-04	MDM09S	Box	N/A	1H
HHFPU	111100 J039	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J040	HIFI FPU 1. SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J041	HIFI FPU 1 SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J042	HIFI FPU 1 SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J043	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J044	HIFI FPU 1 SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J045	HIFI FPU SIH-XH-01	MDM09P	Box	N/A	1H
HHFPU	111100 J046	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J047	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J048	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J049	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J050	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J051	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J052	HIFI FPU SIH-XH-03	MDM09P	Box	N/A	1H
HHFPU	111100 J053	HIFI FPU SIH-XH-02	MDM21P	Box	N/A	1H
HHFPU	111100 J054	HIFI FPU SIH-XH-02	MDM21P	Box	N/A	1H
HHFPU	111100 J055	HIFI FPU SIH-XH-02	MDM21P	Box	N/A	1H
HHFPU	111100 J056	HIFI FPU SIH-XH-04	MDM21P	Box	N/A	1H
HHFPU	111100 J057	HIFI FPU SIH-XH-04	MDM21P	Box	N/A	1H
HHFPU	111100 J058	HIFI FPU SIH-XH-04	MDM21P	Box	N/A	1H
HHFPU	111100 J059	HIFI FPU SIH-XH-05	MDM09P	Box	N/A	1H
HHFPU	111100 J060	HIFI FPU SIH-XH-05	MDM09P	Box	N/A	1H
HHFPU	111100 J061	HIFI FPU SIH-XH-05	MDM21S	Box	N/A	1H
HHFPU	111100 J062	HIFI FPU SIH-XH-05	MDM21S	Box	N/A	1H
HHFPU	111100 J063	HIFI FPU SIH-XH-05	MDM21S	Box	N/A	1H
HHFPU	111100 J064	HIFI FPU SIH-XH-05	MDM21S	Box	N/A	1H
HHFPU	111100 J065	HIFI FPU SIH-XH-05	MDM15S	Box	N/A	1H
HHFPU	111100 J066	HIFI FPU SIH-XH-05	MDM15S	Box	N/A	1H
HHFPU	111100 J067	HIFI FPU SIH-XH-05	MDM21P	Box	N/A	1H
HHFPU	111100 J068	HIFI FPU SIH-XH-05	MDM21P	Box	N/A	1H
HHFPU	111100 J069	HIFI FPU SIH-XH-05	MDM09S	Box	N/A	1H
HHFPU	111100 P001	HIFI FPU IF1-H SIH-XH-21	Coax Male ( 50Ohm)	H/N	none	1H
HHFPU	111100 P002	HIFI FPU IF2-H SIH-XH-22	Coax Male ( 50Ohm)	H/N	none	1H

**Connector  
Reference List**

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HHFPU	111100 P003	HIFI FPU IF1-V SIH-XH-23	Coax Male ( 50Ohm)	H/N	none	1H
HHFPU	111100 P004	HIFI FPU IF2-V SIH-XH-24	Coax Male ( 50Ohm)	H/N	none	1H
HHFPU	111100 P011	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P012	HIFI FPU SIH-XH-01.	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P013	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P014	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P015	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P016	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P017	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P018	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P019	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P020	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P021	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P022	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P023	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P024	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P025	HIFI FPU SIH-XH-02	MWDM2L-09P-6C3-.630	H/N	BS-LS-17A-01	1H
HHFPU	111100 P026	HIFI FPU SIH-XH-02	MWDM2L-09P-6C3-.630	H/N	BS-LS-17A-01	1H
HHFPU	111100 P027	HIFI FPU SIH-XH-02	MWDM2L-09P-6C3-.630	H/N	BS-LS-17A-01	1H
HHFPU	111100 P028	HIFI FPU SIH-XH-02	MWDM2L-09P-6C3-.630	H/N	BS-LS-17A-01	1H
HHFPU	111100 P029	HIFI FPU SIH-XH-02	MWDM2L-09P-6C3-.630	H/N	BS-LS-17A-01	1H
HHFPU	111100 P032	HIFI FPU SIH-XH-04	MWDM2L-09P-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P033	HIFI FPU SIH-XH-04	MWDM2L-09P-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P034	HIFI FPU SIH-XH-04	MWDM2L-09P-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P035	HIFI FPU SIH-XH-04	MWDM2L-09P-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P036	HIFI FPU SIH-XH-04	MWDM2L-09P-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P039	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P040	HIFI FPU 1. SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P041	HIFI FPU 1 SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P042	HIFI FPU 1 SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P043	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P044	HIFI FPU 1 SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P045	HIFI FPU SIH-XH-01	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P046	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P047	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P048	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P049	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P050	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P051	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P052	HIFI FPU SIH-XH-03	MWDM2L-09S-6C3-.630	H/N	507 E 196 M 9	1H
HHFPU	111100 P053	HIFI FPU SIH-XH-02	MWDM2L-21S-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P054	HIFI FPU SIH-XH-02	MWDM2L-21S-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P055	HIFI FPU SIH-XH-02	MWDM2L-21S-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P056	HIFI FPU SIH-XH-04	MWDM2L-21S-6C3-.630	H/N	BS-LS-17C-01	1H
HHFPU	111100 P057	HIFI FPU SIH-XH-04	MWDM2L-21S-6C3-.630	H/N	BS-LS-17C-01	1H
HHFPU	111100 P058	HIFI FPU SIH-XH-04	MWDM2L-21S-6C3-.630	H/N	BS-LS-17C-01	1H
HHFPU	111100 P059	HIFI FPU SIH-XH-05	MWDM2L-09S-6C3-.630	H/N	BS-SS-17A-01	1H
HHFPU	111100 P060	HIFI FPU SIH-XH-05	MWDM2L-09S-6C3-.630	H/N	BS-LS-17A-01	1H
HHFPU	111100 P061	HIFI FPU SIH-XH-05	MWDM2L-21P-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P062	HIFI FPU SIH-XH-05	MWDM2L-21P-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P063	HIFI FPU SIH-XH-05	MWDM2L-21P-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P064	HIFI FPU SIH-XH-05	MWDM2L-21P-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P065	HIFI FPU SIH-XH-05	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1H
HHFPU	111100 P066	HIFI FPU SIH-XH-05	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1H
HHFPU	111100 P067	HIFI FPU SIH-XH-05	MWDM2L-21S-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P068	HIFI FPU SIH-XH-05	MWDM2L-21S-6C3-.630	H/N	BS-SS-17C-01	1H
HHFPU	111100 P069	HIFI FPU SIH-XH-05	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1H

**Connector  
Reference List**

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HHLOU	111200 J001	+ HIFI LOU SIH-XH-06	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J002	+ HIFI LOU SIH-XH-10	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J003	+ HIFI LOU SIH-XH-06	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J004	+ HIFI LOU SIH-XH-10	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J005	+ HIFI LOU SIH-XH-07	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J006	+ HIFI LOU SIH-XH-11	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J007	+ HIFI LOU LCU SIH-XH-07	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J008	+ HIFI LOU SIH-XH-11	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J009	+ HIFI LOU SIH-XH-08	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J010	+ HIFI LOU SIH-XH-12	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J011	+ HIFI LOU SIH-XH-08	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J012	+ HIFI LOU HIFI LOU SIH-XH-12	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J013	+ HIFI LOU SIH-XH-09	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J014	+ HIFI LOU SIH-XH-09	DDMA-50S-NMB-FO	Box	N/A	1H
HHLOU	111200 J015	+ HIFI LOU LCU Heater main	DEMA-09P-NMB-FO	Box	N/A	1P
HHLOU	111200 J016	+ HIFI LOU HIFI LOU SIH-XH-12	DEMA-09P-NMB-FO	Box	N/A	1H
HHLOU	111200 P001	+ HIFI LOU SIH-XH-06	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P002	+ HIFI LOU SIH-XH-10	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P003	+ HIFI LOU SIH-XH-06	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P004	+ HIFI LOU SIH-XH-10	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P005	+ HIFI LOU SIH-XH-07	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P006	+ HIFI LOU SIH-XH-11	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P007	+ HIFI LOU LCU SIH-XH-07	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P008	+ HIFI LOU SIH-XH-11	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P009	+ HIFI LOU SIH-XH-08	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P010	+ HIFI LOU SIH-XH-12	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P011	+ HIFI LOU SIH-XH-08	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P012	+ HIFI LOU HIFI LOU SIH-XH-12	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P013	+ HIFI LOU SIH-XH-09	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P014	+ HIFI LOU SIH-XH-09	SCC340100201BDDMA50PNM	H/N	CA-34-50	1H
HHLOU	111200 P015	+ HIFI LOU LCU Heater main	SCC340100201BDEMA09SNM	H/N	CA-04-09	1P
HHLOU	111200 P016	+ HIFI LOU HIFI LOU SIH-XH-12	SCC340100201BDEMA09SNM	H/N	CA-04-09	1H

**Connector  
Reference List**

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HHLCU	112100 J003	+ HIFI LCU SIH-XH-08	SCC340100201BDEMA09SNM	Box	N/A	1H
HHLCU	112100 J007	+ HIFI LCU SIH-XH-06	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J008	+ HIFI LCU SIH-XH-06	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J009	+ HIFI LCU SIH-XH-07	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J010	+ HIFI LCU SIH-XH-07	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J011	+ HIFI LCU SIH-XH-08	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J012	+ HIFI LCU SIH-XH-08	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J013	+ HIFI LCU SIH-XH-12	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J014	+ HIFI LCU SIH-XH-10	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J015	+ HIFI LCU SIH-XH-10	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J016	+ HIFI LCUSIH-XH-11	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J017	+ HIFI LCU SIH-HX-11	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J018	+ HIFI LCU SIH-XH-09	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J019	+ HIFI LCU SIH-XH-12	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J020	+ HIFI LCU SIH-XH-09	DBMA-44S-NMB-FO	Box	N/A	1H
HHLCU	112100 J021	+ HIFI LCU ???	DEMA-09P-NMB-FO	Box	N/A	1P
HHLCU	112100 J023	+ HIFI LCU SIH-XH-12	SCC340100201BDEMA09SNM	Box	N/A	1H
HHLCU	112100 P003	+ HIFI LCU SIH-XH-08	SCC340100201BDEMA9PNMB	H/N	CA-04-09	1H
HHLCU	112100 P007	+ HIFI LCU SIH-XH-06	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P008	+ HIFI LCU SIH-XH-06	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P009	+ HIFI LCU SIH-XH-07	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P010	+ HIFI LCU SIH-XH-07	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P011	+ HIFI LCU SIH-XH-08	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P012	+ HIFI LCU SIH-XH-08	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P013	+ HIFI LCU SIH-XH-12	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P014	+ HIFI LCU SIH-XH-10	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P015	+ HIFI LCU SIH-XH-10	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P016	+ HIFI LCUSIH-XH-11	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P017	+ HIFI LCU SIH-HX-11	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P018	+ HIFI LCU SIH-XH-09	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P019	+ HIFI LCU SIH-XH-12	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P020	+ HIFI LCU SIH-XH-09	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHLCU	112100 P021	+ HIFI LCU ???	SCC340100201BDEMA09SNM	H/N	TBC	1P
HHLCU	112100 P023	+ HIFI LCU SIH-XH-12	SCC340100201BDEMA9PNMB	H/N	CA-04-09	1H

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HHFCU	112300 J011	+ HIFI FCU SIH-XH-01	DBMA-44P-NMB-FO	Box	N/A	1H
HHFCU	112300 J012	+ HIFI FCU SIH-XH-02	DCMA-37S-NMB-FO	Box	N/A	1H
HHFCU	112300 J013	+ HIFI FCU ???	DCMA-37S-NMB-FO	Box	N/A	1P
HHFCU	112300 J014	+ HIFI FCU SIH-XH-01	DBMA-44S-NMB-FO	Box	N/A	1H
HHFCU	112300 J015	+ HIFI FCU SIH-XH-02	DCMA-62S-NMB-FO	Box	N/A	1H
HHFCU	112300 J016	+ HIFI FCU SIH-XH-05	SCC340100202BDCMA62PNM	Box	N/A	1H
HHFCU	112300 J017	+ HIFI FCU SIH-XH-05	DAMA-15S-NMB-FO	Box	N/A	1H
HHFCU	112300 J021	+ HIFI FCU SIH-XH-03	DBMA-44P-NMB-FO	Box	N/A	1H
HHFCU	112300 J022	+ HIFI FCU SIH-XH-04	DCMA-37S-NMB-FO	Box	N/A	1H
HHFCU	112300 J023	+ HIFI FCU ????	DCMA-37S-NMB-FO	Box	N/A	1P
HHFCU	112300 J024	+ HIFI FCU SIH-XH-03	DBMA-44S-NMB-FO	Box	N/A	1H
HHFCU	112300 J025	+ HIFI FCU SIH-XH-04	DCMA-62S-NMB-FO	Box	N/A	1H
HHFCU	112300 J026	+ HIFI FCU SIH-XH-05	DCMA-62P-NMB-FO	Box	N/A	1H
HHFCU	112300 J027	+ HIFI FCU SIH-XH-05	SCC340100201BDAMA15SNM	Box	N/A	1H
HHFCU	112300 P011	+ HIFI FCU SIH-XH-01	SCC340100202BDBMA44SNM	H/N	CA-01-25	1H
HHFCU	112300 P012	+ HIFI FCU SIH-XH-02	SCC340100201BDCMA37PNM	H/N	CA-27-37	1H
HHFCU	112300 P013	+ HIFI FCU ???	DCMA-37P-NMB-FO	Box	TBD	1P
HHFCU	112300 P014	+ HIFI FCU SIH-XH-01	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHFCU	112300 P015	+ HIFI FCU SIH-XH-02	SCC340100202BDCMA62PNM	H/N	CA-27-37	1H
HHFCU	112300 P016	+ HIFI FCU SIH-XH-05	SCC340100202BDCMA62SNM	H/N	CA-27-37	1H
HHFCU	112300 P017	+ HIFI FCU SIH-XH-05	SCC340100201BDAMA15PNM	H/N	CA-01-15	1H
HHFCU	112300 P021	+ HIFI FCU SIH-XH-03	SCC340100202BDBMA44SNM	H/N	CA-01-25	1H
HHFCU	112300 P022	+ HIFI FCU SIH-XH-04	SCC340100201BDCMA37PNM	H/N	CA-27-37	1H
HHFCU	112300 P023	+ HIFI FCU ????	DCMA-37P-NMB-FO	Box	TBC	1P
HHFCU	112300 P024	+ HIFI FCU SIH-XH-03	SCC340100202BDBMA44PNM	H/N	CA-01-25	1H
HHFCU	112300 P025	+ HIFI FCU SIH-XH-04	SCC340100202BDCMA62PNM	H/N	CA-27-37	1H
HHFCU	112300 P026	+ HIFI FCU SIH-XH-05	SCC340100202BDCMA62SNM	H/N	CA-27-37	1H
HHFCU	112300 P027	+ HIFI FCU SIH-XH-05	SCC340100201BDAMA15PNM	H/N	CA-01-15	1H
HH3DH	112700 J001	+ HRS-H IF Sig SIH-XH-21	SMA Female	Box	N/A	1H
HH3DH	112700 J002	+ WBS-H IF Sig SIH-XH-22	SMA Female	Box	N/A	1H
HH3DH	112700 P001	+ HRS-H IF Sig SIH-XH-21	SMA Male	Box	TBD	1H
HH3DH	112700 P002	+ WBS-H IF Sig SIH-XH-22	SMA Male	Box	TBD	1H
HH3DV	112800 J001	+ HRS-V IF Sig SIH-XH-23	SMA Female	Box	N/A	1H
HH3DV	112800 J002	+ WBS-V IF Sig SIH-XH-24	SMA Female	Box	N/A	1H
HH3DV	112800 P001	+ HRS-V IF Sig SIH-XH-23	SMA Male	Box	TBD	1H
HH3DV	112800 P002	+ WBS-V IF Sig SIH-XH-24	SMA Male	Box	TBD	1H
HSFPU	121100 J019	+ SPIRE FPU Filter Cooler (C10)	MDM37S	Box	N/A	1P
HSFPU	121100 J020	SPIRE FPU Filter Cooler (C12)	MDM37S	Box	N/A	1P
HSFPU	121100 J021	SPIRE FPU Filter Spect. Stim. (C10)	MDM37S	Box	N/A	1P
HSFPU	121100 J022	SPIRE FPU Filter Spect. Stim. (C12)	MDM37S	Box	N/A	1P
HSFPU	121100 J023	SPIRE FPU Termometry Prime (C10)	MDM37S	Box	N/A	1P
HSFPU	121100 J024	SPIRE FPU Filter Termometry (C12)	MDM37S	Box	N/A	1P
HSFPU	121100 J025	SPIRE FPU Filter BSM Phot. Stim. (C11)	MDM37S	Box	N/A	1P
HSFPU	121100 J026	SPIRE FPU Filter BSM Phot. Stim (C13)	MDM37S	Box	N/A	1P
HSFPU	121100 J027	SPIRE FPU Filter SMEC Launch Pr (C11)	MDM37S	Box	N/A	1P
HSFPU	121100 J028	SPIRE FPU Filter SMEC Launch Re(C13)	MDM37S	Box	N/A	1P
HSFPU	121100 J029	SPIRE FPU Filter SMEC Contr. Pr (C11)	MDM37S	Box	N/A	1P
HSFPU	121100 J030	SPIRE FPU Filter SMEC Contr. Re (C13)	MDM37S	Box	N/A	1P
HSFPU	121100 P019	+ SPIRE FPU Filter Cooler (C10)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P020	SPIRE FPU Filter Cooler (C12)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P021	SPIRE FPU Filter Spect. Stim. (C10)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P022	SPIRE FPU Filter Spect. Stim. (C12)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P023	SPIRE FPU Termometry Prime (C10)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P024	SPIRE FPU Filter Termometry (C12)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P025	SPIRE FPU Filter BSM Phot. Stim. (C11)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P026	SPIRE FPU Filter BSM Phot. Stim (C13)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P027	SPIRE FPU Filter SMEC Launch Pr (C11)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P028	SPIRE FPU Filter SMEC Launch Re(C13)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P029	SPIRE FPU Filter SMEC Contr. Pr (C11)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFPU	121100 P030	SPIRE FPU Filter SMEC Contr. Re (C13)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HSJFP	121210 J001	SPIRE Bolom. Sign. from HSJFP1 (C9)	MDM25P	Box	NVA	1P
HSJFP	121210 J002	SPIRE Bolom. Sign. from HSJFP1 (C9)	MDM25P	Box	NVA	1P
HSJFP	121210 J003	SPIRE Bolom. Sign. from HSJFP2 (C9)	MDM25P	Box	NVA	1P
HSJFP	121210 J004	SPIRE Bolom. Sign. from HSJFP2 (C9)	MDM25P	Box	NVA	1P
HSJFP	121210 J005	SPIRE Bolom. Sign. from HSJFP3 (C8)	MDM25P	Box	NVA	1P
HSJFP	121210 J006	SPIRE Bolom. Sign. from HSJFP3 (C8)	MDM25P	Box	NVA	1P
HSJFP	121210 J007	SPIRE Bolom. Sign. from HSJFP4 (C8)	MDM25P	Box	NVA	1P
HSJFP	121210 J008	SPIRE Bolom. Sign. from HSJFP4 (C8)	MDM25P	Box	NVA	1P
HSJFP	121210 J009	SPIRE Bolom. Sign. from HDJFP5 (C7)	MDM25P	Box	NVA	1P
HSJFP	121210 J010	SPIRE Bolom. Sign. from HSJFP5 (C7)	MDM25P	Box	NVA	1P
HSJFP	121210 J011	SPIRE Bolom. Sign. from HSJFP6 (C7)	MDM25P	Box	NVA	1P
HSJFP	121210 J012	SPIRE Bolom. Sign. from HSJFP6 (C7)	MDM25P	Box	NVA	1P
HSJFP	121210 J013	SPIRE Bolom. Sign. from HSJFP7 (C6)	MDM25P	Box	NVA	1P
HSJFP	121210 J014	SPIRE Bolom. Sign. from HSJFP7 (C6)	MDM25P	Box	NVA	1P
HSJFP	121210 J015	SPIRE Bolom. Sign. from HSJFP8 (C6)	MDM25P	Box	NVA	1P
HSJFP	121210 J016	SPIRE Bolom. Sign. from HSJFP8 (C6)	MDM25P	Box	NVA	1P
HSJFP	121210 J017	SPIRE Bolom. Sign. from HSJFP9 (C5)	MDM25P	Box	NVA	1P
HSJFP	121210 J018	SPIRE Bolom. Sign. from HSJFP9 (C5)	MDM25P	Box	NVA	1P
HSJFP	121210 J019	SPIRE Bolom. Sign. from HSJFP10 (C5)	MDM25P	Box	NVA	1P
HSJFP	121210 J020	SPIRE Bolom. Sign. from HSJFP10 (C5)	MDM25P	Box	NVA	1P
HSJFP	121210 J021	SPIRE Bolom. Sign. from HSJFP11 (C4)	MDM25P	Box	NVA	1P
HSJFP	121210 J022	SPIRE Bolom. Sign. from HSJFP11 (C4)	MDM25P	Box	NVA	1P
HSJFP	121210 J023	SPIRE Bolom. Sign. from HSJFP12 (C4)	MDM25P	Box	NVA	1P
HSJFP	121210 J024	SPIRE Bolom. Sign. from HSJFP12 (C4)	MDM25P	Box	NVA	1P
HSJFP	121210 J025	PSW Bias Prime -DCU (C03)	MDM37S	Box	NVA	1P
HSJFP	121210 J026	PSW Bias Red -DCU (C03)	MDM37S	Box	NVA	1P
HSJFP	121210 J027	PMW/PLW Bias Prime -DCU (C03)	MDM37S	Box	NVA	1P
HSJFP	121210 J028	PMW/PLW Bias Red -DCU (C03)	MDM37S	Box	NVA	1P
HSJFP	121210 P001	SPIRE Bolom. Sign. from HSJFP1 (C9)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P002	SPIRE Bolom. Sign. from HSJFP1 (C9)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P003	SPIRE Bolom. Sign. from HSJFP2 (C9)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P004	SPIRE Bolom. Sign. from HSJFP2 (C9)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P005	SPIRE Bolom. Sign. from HSJFP3 (C8)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P006	SPIRE Bolom. Sign. from HSJFP3 (C8)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P007	SPIRE Bolom. Sign. from HSJFP4 (C8)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P008	SPIRE Bolom. Sign. from HSJFP4 (C8)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P009	SPIRE Bolom. Sign. from HDJFP5 (C7)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P010	SPIRE Bolom. Sign. from HSJFP5 (C7)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P011	SPIRE Bolom. Sign. from HSJFP6 (C7)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P012	SPIRE Bolom. Sign. from HSJFP6 (C7)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P013	SPIRE Bolom. Sign. from HSJFP7 (C6)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P014	SPIRE Bolom. Sign. from HSJFP7 (C6)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P015	SPIRE Bolom. Sign. from HSJFP8 (C6)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P016	SPIRE Bolom. Sign. from HSJFP8 (C6)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P017	SPIRE Bolom. Sign. from HSJFP9 (C5)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P018	SPIRE Bolom. Sign. from HSJFP9 (C5)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P019	SPIRE Bolom. Sign. from HSJFP10 (C5)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P020	SPIRE Bolom. Sign. from HSJFP10 (C5)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P021	SPIRE Bolom. Sign. from HSJFP11 (C4)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P022	SPIRE Bolom. Sign. from HSJFP11 (C4)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P023	SPIRE Bolom. Sign. from HSJFP12 (C4)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P024	SPIRE Bolom. Sign. from HSJFP12 (C4)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFP	121210 P025	PSW Bias Prime -DCU (C03)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSJFP	121210 P026	PSW Bias Red -DCU (C03)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSJFP	121210 P027	PMW/PLW Bias Prime -DCU (C03)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSJFP	121210 P028	PMW/PLW Bias Red -DCU (C03)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P

<b>Astrium GmbH</b>		<b>Connector Reference List</b>	Doc. No. : HP-2-ASED-IC-0001	
Project:	<b>HERSCHEL</b>		Issue : 4.2	Date : 18.02.2005
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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HSJFS	121220 J001	SSW Bolom. Sign. HSJFS (C02)	MDM25P	Box	NVA	1P
HSJFS	121220 J002	SSW Bolom. Sign. HSJFS (C02)	MDM25P	Box	NVA	1P
HSJFS	121220 J003	SSW Bolom. Sign. HSJFS (C02)	MDM25P	Box	NVA	1P
HSJFS	121220 J004	SSW Bolom. Sign. HSJFS (C02)	MDM25P	Box	NVA	1P
HSJFS	121220 J005	SLW Bolom. Ch 1-12 HSJFS (C01)	MDM25P	Box	NVA	1P
HSJFS	121220 J006	SLW Bolom. Ch 13-24 HSJFS (C01)	MDM25P	Box	NVA	1P
HSJFS	121220 J007	Bolom.300 mK T.C. (C02)	MDM25P	Box	NVA	1P
HSJFS	121220 J008	SPIRE Bolom. Not used !!!	MDM25P	Box	NVA	1P
HSJFS	121220 J009	SSW/SLW Bias Prime (C01)	MDM37S	Box	NVA	1P
HSJFS	121220 J010	SSW/SLW Bias Red (C01)	MDM37S	Box	NVA	1P
HSJFS	121220 P001	SSW Bolom. Sign. HSJFS (C02)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFS	121220 P002	SSW Bolom. Sign. HSJFS (C02)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFS	121220 P003	SSW Bolom. Sign. HSJFS (C02)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFS	121220 P004	SSW Bolom. Sign. HSJFS (C02)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFS	121220 P005	SLW Bolom. Ch 1-12 HSJFS (C01)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFS	121220 P006	SLW Bolom. Ch 13-24 HSJFS (C01)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFS	121220 P007	Bolom.300 mK T.C. (C02)	MWDM2L-25S-6C3-.630	H/N	507 T 196 M 25	1P
HSJFS	121220 P008	SPIRE Bolom. Not used !!!	MWDM2L-25S-6C3-.630	NVA	NVA	1P
HSJFS	121220 P009	SSW/SLW Bias Prime (C01)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSJFS	121220 P010	SSW/SLW Bias Red (C01)	MWDM2L-37P-6C3-.630	H/N	507 T 196 M 37	1P
HSFCU	122200 J011	+ FCU Heater (S10)	DBMA-25S-NMB-FO	Box	NVA	1P
HSFCU	122200 J012	+ FCU Heater (S12)	DBMA-25S-NMB-FO	Box	NVA	1P
HSFCU	122200 J013	+ FCU Phot. Stimulus Prime (S11)	SCC340100201BDEMA09SNM	Box	NVA	1P
HSFCU	122200 J014	+ FCU Phot. Stimulus RE (S13)	SCC340100201BDEMA09SNM	Box	NVA	1P
HSFCU	122200 J017	+ FCU SMEC Contr. Pr (S11)	DCMA-37S-NMB-FO	Box	NVA	1P
HSFCU	122200 J018	+ FCU SMEC Contr Re (S13)	DCMA-37S-NMB-FO	Box	NVA	1P
HSFCU	122200 J019	+ FCU BSM Pr (S11)	DCMA-37S-NMB-FO	Box	NVA	1P
HSFCU	122200 J020	+ FCU BSM Re (S13)	DCMA-37S-NMB-FO	Box	NVA	1P
HSFCU	122200 J021	+ FCU Thermometry C Pr (S11)	DAMA-15S-NMB-FO	Box	NVA	1P
HSFCU	122200 J022	+ FCU Thermometry C Re (S13)	DAMA-15S-NMB-FO	Box	NVA	1P
HSFCU	122200 J023	+ FCU Thermometry Tail A Pr (S10)	DDMA-50S-NMB-FO	Box	NVA	1P
HSFCU	122200 J024	+ FCU Thermometry Tail A Re (S12)	DDMA-50S-NMB-FO	Box	NVA	1P
HSFCU	122200 J025	+ FCU Thermometry Tail B Pr (S10)	DAMA-15S-NMB-FO	Box	NVA	1P
HSFCU	122200 J026	+ FCU Thermometry Tail B Re (S12)	DAMA-15S-NMB-FO	Box	NVA	1P
HSFCU	122200 J029	+ FCU SMEC Launch Pr (S11)	DCMA-37P-NMB-FO	Box	NVA	1P
HSFCU	122200 J030	+ FCU SMEC Launch Re (S13)	DCMA-37P-NMB-FO	Box	NVA	1P
HSFCU	122200 P011	+ FCU Heater (S10)	DBMA-25P-NMB-FO	H/N	550 T 001 M 3 02	1P
HSFCU	122200 P012	+ FCU Heater (S12)	DBMA-25P-NMB-FO	H/N	550 T 001 M 3 02	1P
HSFCU	122200 P013	+ FCU Phot. Stimulus Prime (S11)	DEMA-09P-NMB-FO	H/N	550 T 001 M 1 02	1P
HSFCU	122200 P014	+ FCU Phot. Stimulus RE (S13)	DEMA-09P-NMB-FO	H/N	550 T 001 M 1 02	1P
HSFCU	122200 P017	+ FCU SMEC Contr. Pr (S11)	SCC340100201BDCMA37PNM	H/N	550 T 001 M 4 03	1P
HSFCU	122200 P018	+ FCU SMEC Contr Re (S13)	SCC340100201BDCMA37PNM	H/N	550 T 001 M 4 03	1P
HSFCU	122200 P019	+ FCU BSM Pr (S11)	SCC340100201BDCMA37PNM	H/N	550 T 001 M 4 03	1P
HSFCU	122200 P020	+ FCU BSM Re (S13)	SCC340100201BDCMA37PNM	H/N	550 T 001 M 4 03	1P
HSFCU	122200 P021	+ FCU Thermometry C Pr (S11)	DAMA-15P-NMB-FO	H/N	550 T 001 M 2 02	1P
HSFCU	122200 P022	+ FCU Thermometry C Re (S13)	DAMA-15P-NMB-FO	H/N	550 T 001 M 2 02	1P
HSFCU	122200 P023	+ FCU Thermometry Tail A Pr (S10)	DDMA-50P-NMB-FO	H/N	550 T 001 M 5 04	1P
HSFCU	122200 P024	+ FCU Thermometry Tail A Re (S12)	DDMA-50P-NMB-FO	H/N	550 T 001 M 5 04	1P
HSFCU	122200 P025	+ FCU Thermometry Tail B Pr (S10)	DAMA-15P-NMB-FO	H/N	550 T 001 M 2 02	1P
HSFCU	122200 P026	+ FCU Thermometry Tail B Re (S12)	DAMA-15P-NMB-FO	H/N	550 T 001 M 2 02	1P
HSFCU	122200 P029	+ FCU SMEC Launch Pr (S11)	DCMA-37S-NMB-FO	H/N	550 T 001 M 4 03	1P
HSFCU	122200 P030	+ FCU SMEC Launch Re (S13)	DCMA-37S-NMB-FO	H/N	550 T 001 M 4 03	1P



# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HSDCU	122300 J005	+ DCU JFP PSW Ch 1-16 (S09)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J006	+ DCU JFP PSW Ch 17-32 (S09)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J007	+ DCU JFP PSW Ch 33-48 (S09)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J008	+ DCU JFP PSW Ch 49-64 (S08)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J009	+ DCU JFP PSW CH 65-80 (S08)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J010	+ DCU JFP PSW Ch 81-96 (S08)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J011	+ DCU JFP PSW Ch 97-112 (S07)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J012	+ DCU JFP PSW Ch 113-128 (S07)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J013	+ DCU JFP PSW Ch 129-144 (S07)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J014	+ DCU JFP PLW Ch 1-16 (S06)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J015	+ DCU JFP PLW Ch 17-32 (S06)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J016	+ DCU JFP PLW Ch 33-48 (S06)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J017	+ DCU JFP PMW Ch 1-16 (S05)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J018	+ DCU JFP PMW Ch 17-32 (S05)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J019	+ DCU JFP Ch 33-48 PMW (B05)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J020	+ DCU JFP PMW Ch 49-64 (S04)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J021	+ DCU JFP PMW Ch 65-80 (S04)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J022	+ DCU JFP PMW Ch 81-93 + PTC (S04)	SCC340100201BDDMA50PNM	Box	N/A	1P
HSDCU	122300 J023	+ DCU JFS SSW Ch 1-12 (S02)	DCMA-37P-NMB-FO	Box	N/A	1P
HSDCU	122300 J024	+ DCU JFS SSW Ch 13-24 (S02)	DCMA-37P-NMB-FO	Box	N/A	1P
HSDCU	122300 J025	+ DCU JFS SSW Ch 25-36 (S02)	DCMA-37P-NMB-FO	Box	N/A	1P
HSDCU	122300 J026	+ DCU JFS SSW Ch 37-48 (S02)	DCMA-37P-NMB-FO	Box	N/A	1P
HSDCU	122300 J027	+ DCU JFS SLW Ch 1-12 (S01)	DCMA-37P-NMB-FO	Box	N/A	1P
HSDCU	122300 J028	+ DCU JFS SLW Ch 13-24 (S01)	DCMA-37P-NMB-FO	Box	N/A	1P
HSDCU	122300 J029	+ DCU Phot. Bias Prime (S03)	DDMA-78S-NMB-FO	Box	N/A	1P
HSDCU	122300 J030	+ DCU Phot. Bias Red (S03)	DDMA-78S-NMB-FO	Box	N/A	1P
HSDCU	122300 J031	+ DCU JFS Spect Bias Prime (S01)	DCMA-37S-NMB-FO	Box	N/A	1P
HSDCU	122300 J032	+ DCU JFS Spect Bias Red (S01)	DCMA-37S-NMB-FO	Box	N/A	1P
HSDCU	122300 P005	+ DCU JFP PSW Ch 1-16 (S09)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P006	+ DCU JFP PSW Ch 17-32 (S09)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P007	+ DCU JFP PSW Ch 33-48 (S09)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P008	+ DCU JFP PSW Ch 49-64 (S08)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P009	+ DCU JFP PSW CH 65-80 (S08)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P010	+ DCU JFP PSW Ch 81-96 (S08)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P011	+ DCU JFP PSW Ch 97-112 (S07)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P012	+ DCU JFP PSW Ch 113-128 (S07)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P013	+ DCU JFP PSW Ch 129-144 (S07)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P014	+ DCU JFP PLW Ch 1-16 (S06)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P015	+ DCU JFP PLW Ch 17-32 (S06)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P016	+ DCU JFP PLW Ch 33-48 (S06)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P017	+ DCU JFP PMW Ch 1-16 (S05)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P018	+ DCU JFP PMW Ch 17-32 (S05)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P019	+ DCU JFP Ch 33-48 PMW (B05)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P020	+ DCU JFP PMW Ch 49-64 (S04)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P021	+ DCU JFP PMW Ch 65-80 (S04)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P022	+ DCU JFP PMW Ch 81-93 + PTC (S04)	DDMA-50S-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P023	+ DCU JFS SSW Ch 1-12 (S02)	DCMA-37S-NMB-FO	H/N	550 T 001 M 4 03	1P
HSDCU	122300 P024	+ DCU JFS SSW Ch 13-24 (S02)	DCMA-37S-NMB-FO	H/N	550 T 001 M 4 03	1P
HSDCU	122300 P025	+ DCU JFS SSW Ch 25-36 (S02)	DCMA-37S-NMB-FO	H/N	550 T 001 M 4 03	1P
HSDCU	122300 P026	+ DCU JFS SSW Ch 37-48 (S02)	DCMA-37S-NMB-FO	H/N	550 T 001 M 4 03	1P
HSDCU	122300 P027	+ DCU JFS SLW Ch 1-12 (S01)	DCMA-37S-NMB-FO	H/N	550 T 001 M 4 03	1P
HSDCU	122300 P028	+ DCU JFS SLW Ch 13-24 (S01)	DCMA-37S-NMB-FO	H/N	550 T 001 M 4 03	1P
HSDCU	122300 P029	+ DCU Phot. Bias Prime (S03)	DDMA-78P-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P030	+ DCU Phot. Bias Red (S03)	DDMA-78P-NMB-FO	H/N	550 T 001 M 5 04	1P
HSDCU	122300 P031	+ DCU JFS Spect Bias Prime (S01)	SCC340100201BDCMA37PNM	H/N	550 T 001 M 4 03	1P
HSDCU	122300 P032	+ DCU JFS Spect Bias Red (S01)	SCC340100201BDCMA37PNM	H/N	550 T 001 M 4 03	1P

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HPFPU	131100 J001	FPU to MEC N SIH-XP-13 (77-81)	MDM31S	Box	N/A	1P
HPFPU	131100 J002	FPU to MEC SIH-XP-14 (82-86)	MDM31S	Box	N/A	1P
HPFPU	131100 J003	FPU to MEC N SIH-XP-13 (87-91)	MDM31S	Box	N/A	1P
HPFPU	131100 J004	FPU to MECSIH-XP-14 (92-96)	MDM31S	Box	N/A	1P
HPFPU	131100 J005	FPU to MEC SIH-XP-15 (117-119)	MDM15S	Box	N/A	1P
HPFPU	131100 J006	FPU to MECSIH-XP-14 (120-122)	MDM15S	Box	N/A	1P
HPFPU	131100 J007	FPU to MEC SIH-XP-13 (113-116a)	MDM31S	Box	N/A	1P
HPFPU	131100 J008	FPU to MEC SIH-XP-15 (123)	MDM09S	Box	N/A	1P
HPFPU	131100 J009	FPU to MEC R SIH-XP-13 (124)	MDM09S	Box	N/A	1P
HPFPU	131100 J010	FPU to DECLWL SIH-XP-01 (2,3)	MDM31S	Box	N/A	1P
HPFPU	131100 J011	FPU to DECLWL SIH-XP-01 (1)	MDM15S	Box	N/A	1P
HPFPU	131100 J012	FPU to DECLWL SIH-XP-01 (13a,17-23)	MDM25S	Box	N/A	1P
HPFPU	131100 J013	FPU to DECLWL SIH-XP-01 (13b,24-31)	MDM25S	Box	N/A	1P
HPFPU	131100 J014	FPU to DECLWL SIH-XP-01 (75)	MDM15S	Box	N/A	1P
HPFPU	131100 J015	FPU to DECLWL SIH-XP-02 (14b,39-45)	MDM25S	Box	N/A	1P
HPFPU	131100 J016	FPU to DECLWLSIH-XP-02 (14a,32-38)	MDM25S	Box	N/A	1P
HPFPU	131100 J017	FPU to DECLWL SIH-XP-02 (4)	MDM15S	Box	N/A	1P
HPFPU	131100 J018	FPU to DECLWL SIH-XP-02 (5,6)	MDM31S	Box	N/A	1P
HPFPU	131100 J020	FPU to DECSWL SIH-XP-03 (8,9)	MDM31S	Box	N/A	1P
HPFPU	131100 J021	FPU to DECSWL SIH-XP-03 (7)	MDM15S	Box	N/A	1P
HPFPU	131100 J022	FPU to DECSWL SIH-XP-03 (15a,46-52)	MDM25S	Box	N/A	1P
HPFPU	131100 J023	FPU to DECSWL SIH-XP-03 (15b,53-60)	MDM25S	Box	N/A	1P
HPFPU	131100 J024	FPU to DECSWL SIH-XP-03 (76)	MDM15S	Box	N/A	1P
HPFPU	131100 J025	FPU to DECSWL SIH-XP-04 (16b,68-74)	MDM25S	Box	N/A	1P
HPFPU	131100 J026	FPU to DECSWL SIH-XP-04 (16a,61-67)	MDM25S	Box	N/A	1P
HPFPU	131100 J027	FPU to DECSWL SIH-XP-04 (10)	MDM15S	Box	N/A	1P
HPFPU	131100 J028	FPU to DECSWL SIH-XP-04 (11,12)	MDM31S	Box	N/A	1P
HPFPU	131100 J040	FPU to MEC SIH-XP-15 (97-99)	MDM21S	Box	N/A	1P
HPFPU	131100 J041	FPU to MEC SIH-XP-15 (100-104)	MDM21S	Box	N/A	1P
HPFPU	131100 J042	FPU to MEC SIH-XP-14 (105-107)	MDM21S	Box	N/A	1P
HPFPU	131100 J043	FPU to MEC SIH-XP-14 (108-112)	MDM21S	Box	N/A	1P
HPFPU	131100 J050	FPU to BOLC SIH-XP-05 (601b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J051	FPU to BOLC SIH-XP-05 (602b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J052	FPU to BOLC SIH-XP-05 (603-605)	MDM37S	Box	N/A	1P
HPFPU	131100 J053	FPU to BOLC SIH-XP-06 (606b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J054	FPU to BOLC SIH-XP-06 (607b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J055	FPU to BOLC sih-xp-06 (608-610)	MDM37S	Box	N/A	1P
HPFPU	131100 J056	FPU to BOLC SIH-XP-07 (611b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J057	FPU to BOLC SIH-XP-07 (612b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J058	FPU to BOLC SIH-XP-07 (613-615)	MDM37S	Box	N/A	1P
HPFPU	131100 J059	FPU to BOLCSIH-XP-08 (616b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J060	FPU to BOLC SIH-XP-08 (617b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J061	FPU to BOLC SIH-XP-08 (618/b;619-620)	MDM37S	Box	N/A	1P
HPFPU	131100 J062	FPU to BOLC SIH-XP-09 (621b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J063	FPU to BOLC SIH-XP-09 (622/b;623-624)	MDM37S	Box	N/A	1P
HPFPU	131100 J064	FPU to BOLC SIH-XP-10 (625b,c)	MDM37P	Box	N/A	1P
HPFPU	131100 J065	FPU to BOLC SIH-XP-10 (626/b;627-628)	MDM37S	Box	N/A	1P
HPFPU	131100 J066	FPU to BOLC SIH-XP-11 (641-644)	MDM37S	Box	N/A	1P
HPFPU	131100 J067	FPU to BOLC SIH-XP-12 (645-648)	MDM37S	Box	N/A	1P
HPFPU	131100 J068	FPU to BOLC SIH-XP-11 (629-634)	MDM37S	Box	N/A	1P
HPFPU	131100 J069	FPU to BOLC SIH-XP-12 (635-640)	MDM37S	Box	N/A	1P
HPFPU	131100 P001	FPU to MEC N SIH-XP-13 (77-81)	MWDM2L-31P-6C3-.630	H/N	BS-SS-17E-01	1P
HPFPU	131100 P002	FPU to MEC SIH-XP-14 (82-86)	MWDM2L-31P-6C3-.630	H/N	BS-SS-17E-01	1P
HPFPU	131100 P003	FPU to MEC N SIH-XP-13 (87-91)	MWDM2L-31P-6C3-.630	H/N	BS-SS-17E-01	1P
HPFPU	131100 P004	FPU to MECSIH-XP-14 (92-96)	MWDM2L-31P-6C3-.630	H/N	BS-SS-17E-01	1P
HPFPU	131100 P005	FPU to MEC SIH-XP-15 (117-119)	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HPFPU	131100 P006	FPU to MECSIH-XP-14 (120-122)	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HPFPU	131100 P007	FPU to MEC SIH-XP-13 (113-116a)	MWDM2L-31P-6C3-.630	H/N	BS-LS-17E-01	1P
HPFPU	131100 P008	FPU to MEC SIH-XP-15 (123)	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HPFPU	131100 P009	FPU to MEC R SIH-XP-13 (124)	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HPFPU	131100 P010	FPU to DECLWL SIH-XP-01 (2,3)	MWDM2L-31P-6C3-.630	H/N	BS-SS-17E-01	1P

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HPFPU	131100 P011	FPU to DECLWL SIH-XP-01 (1)	MWDM2L-15P-6C3-.630	H/N	BS-LS-17B-01	1P
HPFPU	131100 P012	FPU to DECLWL SIH-XP-01 (13a,17-23)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
HPFPU	131100 P013	FPU to DECLWL SIH-XP-01 (13b,24-31)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
HPFPU	131100 P014	FPU to DECLWL SIH-XP-01 (75)	MWDM2L-15P-6C3-.630	H/N	BS-LS-17B-01	1P
HPFPU	131100 P015	FPU to DECLWL SIH-XP-02 (14b,39-45)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
HPFPU	131100 P016	FPU to DECLWLSIH-XP-02 (14a,32-38)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
HPFPU	131100 P017	FPU to DECLWL SIH-XP-02 (4)	MWDM2L-15P-6C3-.630	H/N	BS-LS-17B-01	1P
HPFPU	131100 P018	FPU to DECLWL SIH-XP-02 (5,6)	MWDM2L-31P-6C3-.630	H/N	BS-SS-17E-01	1P
HPFPU	131100 P020	FPU to DECSWL SIH-XP-03 (8,9)	MWDM2L-31P-6C3-.630	H/N	BS-LS-17E-01	1P
HPFPU	131100 P021	FPU to DECSWL SIH-XP-03 (7)	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HPFPU	131100 P022	FPU to DECSWL SIH-XP-03 (15a,46-52)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
HPFPU	131100 P023	FPU to DECSWL SIH-XP-03 (15b,53-60)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
HPFPU	131100 P024	FPU to DECSWL SIH-XP-03 (76)	MWDM2L-15P-6C3-.630	H/N	BS-LS-17B-01	1P
HPFPU	131100 P025	FPU to DECSWL SIH-XP-04 (16b,68-74)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
HPFPU	131100 P026	FPU to DECSWL SIH-XP-04 (16a,61-67)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
HPFPU	131100 P027	FPU to DECSWL SIH-XP-04 (10)	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HPFPU	131100 P028	FPU to DECSWL SIH-XP-04 (11,12)	MWDM2L-31P-6C3-.630	H/N	BS-LS-17E-01	1P
HPFPU	131100 P040	FPU to MEC SIH-XP-15 (97-99)	MWDM2L-21P-6C3-.630	H/N	BS-SS-17C-01	1P
HPFPU	131100 P041	FPU to MEC SIH-XP-15 (100-104)	MWDM2L-21P-6C3-.630	H/N	BS-SS-17C-01	1P
HPFPU	131100 P042	FPU to MEC SIH-XP-14 (105-107)	MWDM2L-21P-6C3-.630	H/N	BS-SS-17C-01	1P
HPFPU	131100 P043	FPU to MEC SIH-XP-14 (108-112)	MWDM2L-21P-6C3-.630	H/N	BS-SS-17C-01	1P
HPFPU	131100 P050	FPU to BOLC SIH-XP-05 (601b,c)	MWDM2L-37S-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P051	FPU to BOLC SIH-XP-05 (602b,c)	MWDM2L-37S-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P052	FPU to BOLC SIH-XP-05 (603-605)	MWDM2L-37P-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P053	FPU to BOLC SIH-XP-06 (606b,c)	MWDM2L-37S-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P054	FPU to BOLC SIH-XP-06 (607b,c)	MWDM2L-37S-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P055	FPU to BOLC sih-xp-06 (608-610)	MWDM2L-37P-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P056	FPU to BOLC SIH-XP-07 (611b,c)	MWDM2L-37S-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P057	FPU to BOLC SIH-XP-07 (612b,c)	MWDM2L-37S-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P058	FPU to BOLC SIH-XP-07 (613-615)	MWDM2L-37P-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P059	FPU to BOLCSIH-XP-08 (616b,c)	MWDM2L-37S-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P060	FPU to BOLC SIH-XP-08 (617b,c)	MWDM2L-37S-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P061	FPU to BOLC SIH-XP-08 (618/b;619-620)	MWDM2L-37P-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P062	FPU to BOLC SIH-XP-09 (621b,c)	MWDM2L-37S-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P063	FPU to BOLC SIH-XP-09 (622/b;623-624)	MWDM2L-37P-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P064	FPU to BOLC SIH-XP-10 (625b,c)	MWDM2L-37S-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P065	FPU to BOLC SIH-XP-10 (626/b;627-628)	MWDM2L-37P-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P066	FPU to BOLC SIH-XP-11 (641-644)	MWDM2L-37P-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P067	FPU to BOLC SIH-XP-12 (645-648)	MWDM2L-37P-6C3-.630	H/N	BS-SS-17F-01	1P
HPFPU	131100 P068	FPU to BOLC SIH-XP-11 (629-634)	MWDM2L-37P-6C3-.630	H/N	BS-LS-17F-01	1P
HPFPU	131100 P069	FPU to BOLC SIH-XP-12 (635-640)	MWDM2L-37P-6C3-.630	H/N	BS-LS-17F-01	1P

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HPDECMEC	132100 J011	+ MEC1 to FPU SIH-XP-15 (97-99)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J012	+ MEC1 to FPU SIH-XP-15 (100-104)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J013	+ MEC1 to FPU SIH-XP-13 (77-81)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J014	+ MEC1 to FPU SIH-XP-14 (87-91)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J015	+ MEC1 to FPU SIH-XP-15 (117-119)	DAMA-15S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J016	+ MEC1 to FPU SIH-XP-15 (123)	DEMA-09S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J017	+ MEC1 to FPU SIH-XP-13 (113-116;116a)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J051	+ DEC1 to FPU SIH-XP-03 (8,9)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J053	+ DEC1 to FPUSIH-XP-03 (7)	DAMA-15S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J055	+ DEC1to FPU SIH-XP-03 (15a,46-52)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J057	+ DEC1 to FPU SIH-XP-03 (15b,53-60)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J062	+ DEC1to FPU SIH-XP-04 (11,12)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J064	+ DEC1 to FPU SIH-XP-04 (10)	DAMA-15S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J066	+ DEC1 to FPU SIH-XP-04 (16a,61-67)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J068	+ DEC1to FPUSIH-XP-04 (16b,68-74)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J078	+ DEC1 to FPU SIH-XP-03 (76)	DAMA-15S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J111	+ MEC2 to FPU SIH-XP-14 (105-107)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J112	+ MEC2 to FPU SIH-XP-14 (108-112)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J113	+ MEC2 to FPU SIH-XP-14 (82-86)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J114	+ MEC2 to FPU SIH-XP-14 (92-96)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J115	+ MEC2 to FPU SIH-XP-14 (120-122)	DAMA-15S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J116	+ MEC2 to FPU SIH-XP-13 (124)	DEMA-09S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J151	+ DEC2 to FPUSIH-XP-01 (2,3)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J153	+ DEC2 to FPU SIH-XP-01 (1)	DAMA-15S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J155	+ DEC2 FPU S SIH-XP-01 (13a,17-23)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J157	+ DEC2 to FPU SIH-XP-01 (13b,24-31)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J162	+ DEC2 to FPU SIH-XP-02 (5,6)	DCMA-37S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J164	+ DEC2 to FPUSIH-XP-02 (4)	DAMA-15S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J166	+ DEC2 to FPU SIH-XP-02 (14a,32-38)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J168	+ DEC2 to FPU SIH-XP-02 (14b,39-45)	DBMA-25S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 J178	+ DEC2 to FPU SIH-XP-01 (75)	DAMA-15S-NMB-FO	Box	N/A	1P
HPDECMEC	132100 P011	+ MEC1 to FPU SIH-XP-15 (97-99)	SCC340100201BDBMA25PNM	H/N	CA-68-25	1P
HPDECMEC	132100 P012	+ MEC1 to FPU SIH-XP-15 (100-104)	SCC340100201BDBMA25PNM	H/N	CA-68-25	1P
HPDECMEC	132100 P013	+ MEC1 to FPU SIH-XP-13 (77-81)	SCC340100201BDCMA37PNM	H/N	CA-43-37	1P
HPDECMEC	132100 P014	+ MEC1 to FPU SIH-XP-14 (87-91)	SCC340100201BDCMA37PNM	H/N	CA-43-37	1P
HPDECMEC	132100 P015	+ MEC1 to FPU SIH-XP-15 (117-119)	SCC340100201BDAMA15PNM	H/N	CA-58-15	1P
HPDECMEC	132100 P016	+ MEC1 to FPU SIH-XP-15 (123)	SCC340100201BDEMA9PNMB	H/N	CA-51-09	1P
HPDECMEC	132100 P017	+ MEC1 to FPU SIH-XP-13 (113-116;116a)	SCC340100201BDCMA37PNM	H/N	CA-43-37	1P
HPDECMEC	132100 P051	+ DEC1 to FPU SIH-XP-03 (8,9)	SCC340100201BDCMA37PNM	H/N	CA-43-37	1P
HPDECMEC	132100 P053	+ DEC1 to FPUSIH-XP-03 (7)	SCC340100201BDAMA15PNM	H/N	CA-58-15	1P
HPDECMEC	132100 P055	+ DEC1to FPU SIH-XP-03 (15a,46-52)	SCC340100201BDBMA25PNM	H/N	CA-68-25	1P
HPDECMEC	132100 P057	+ DEC1 to FPU SIH-XP-03 (15b,53-60)	SCC340100201BDBMA25PNM	H/N	CA-68-25	1P
HPDECMEC	132100 P062	+ DEC1to FPU SIH-XP-04 (11,12)	SCC340100201BDCMA37PNM	H/N	CA-42-37	1P
HPDECMEC	132100 P064	+ DEC1 to FPU SIH-XP-04 (10)	SCC340100201BDAMA15PNM	H/N	CA-34-15	1P
HPDECMEC	132100 P066	+ DEC1 to FPU SIH-XP-04 (16a,61-67)	SCC340100201BDBMA25PNM	H/N	CA-69-25	1P
HPDECMEC	132100 P068	+ DEC1to FPUSIH-XP-04 (16b,68-74)	SCC340100201BDBMA25PNM	H/N	CA-69-25	1P
HPDECMEC	132100 P078	+ DEC1 to FPU SIH-XP-03 (76)	SCC340100201BDAMA15PNM	H/N	CA-58-15	1P
HPDECMEC	132100 P111	+ MEC2 to FPU SIH-XP-14 (105-107)	SCC340100201BDBMA25PNM	H/N	CA-69-25	1P
HPDECMEC	132100 P112	+ MEC2 to FPU SIH-XP-14 (108-112)	SCC340100201BDBMA25PNM	H/N	CA-69-25	1P
HPDECMEC	132100 P113	+ MEC2 to FPU SIH-XP-14 (82-86)	SCC340100201BDCMA37PNM	H/N	CA-42-37	1P
HPDECMEC	132100 P114	+ MEC2 to FPU SIH-XP-14 (92-96)	SCC340100201BDCMA37PNM	H/N	CA-42-37	1P
HPDECMEC	132100 P115	+ MEC2 to FPU SIH-XP-14 (120-122)	SCC340100201BDAMA15PNM	H/N	CA-34-15	1P
HPDECMEC	132100 P116	+ MEC2 to FPU SIH-XP-13 (124)	SCC340100201BDEMA9PNMB	H/N	CA-52-09	1P
HPDECMEC	132100 P151	+ DEC2 to FPUSIH-XP-01 (2,3)	SCC340100201BDCMA37PNM	H/N	CA-42-37	1P
HPDECMEC	132100 P153	+ DEC2 to FPU SIH-XP-01 (1)	SCC340100201BDAMA15PNM	H/N	CA-34-15	1P
HPDECMEC	132100 P155	+ DEC2 FPU S SIH-XP-01 (13a,17-23)	SCC340100201BDBMA25PNM	H/N	CA-69-25	1P
HPDECMEC	132100 P157	+ DEC2 to FPU SIH-XP-01 (13b,24-31)	SCC340100201BDBMA25PNM	H/N	CA-69-25	1P
HPDECMEC	132100 P162	+ DEC2 to FPU SIH-XP-02 (5,6)	SCC340100201BDCMA37PNM	H/N	CA-42-37	1P
HPDECMEC	132100 P164	+ DEC2 to FPUSIH-XP-02 (4)	SCC340100201BDAMA15PNM	H/N	CA-34-15	1P
HPDECMEC	132100 P166	+ DEC2 to FPU SIH-XP-02 (14a,32-38)	SCC340100201BDBMA25PNM	H/N	CA-68-25	1P
HPDECMEC	132100 P168	+ DEC2 to FPU SIH-XP-02 (14b,39-45)	SCC340100201BDBMA25PNM	H/N	CA-68-25	1P

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HPDECMEC	132100 P178	+ DEC2 to FPU SIH-XP-01 (75)	SCC340100201BDAMA15PNM	H/N	CA-24-15	1P
HPBOLC	132300 J001	+ BOLC to FPU SIH-XP-05 (601b;601c)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J002	+ BOLCto FPUSIH-XP-05 (602b;602c)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J003	+ BOLC to FPU SIH-XP-05 (603..605)	DCMA-37S-NMB-FO	Box	N/A	1P
HPBOLC	132300 J004	+ BOLC to FPU SIH-XP-06 (606)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J005	+ BOLCto FPU SIH-XP-06 (607)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J006	+ BOLC FPU SIH-XP-06 (608-610)	DCMA-37S-NMB-FO	Box	N/A	1P
HPBOLC	132300 J007	+ BOLC to FPUSIH-XP-07 (611)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J008	+ BOLC FPU SIH-XP-07 (612)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J009	+ BOLC to FPU SIH-XP-07 (613-615)	DCMA-37S-NMB-FO	Box	N/A	1P
HPBOLC	132300 J010	+ BOLC FPU SIH-XP-08 (616)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J011	+ BOLC FPU SIH-XP-08 (617)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J012	+ BOLC to FPUSIH-XP-08 (618-620)	DCMA-37S-NMB-FO	Box	N/A	1P
HPBOLC	132300 J013	+ BOLC to FPU Sih-XP-09 (621)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J014	+ BOLC FPU SIH-XP-09 (622-624)	DCMA-37S-NMB-FO	Box	N/A	1P
HPBOLC	132300 J015	+ BOLC to FPU SIH-XP-10 (625)	DCMA-37P-NMB-FO	Box	N/A	1P
HPBOLC	132300 J016	+ BOLC to FPU SIH-XP-10 (626-628)	DCMA-37S-NMB-FO	Box	N/A	1P
HPBOLC	132300 J017	+ BOLC to FPU SIH-XP-11 (529-34,541-544)	DCMA-62S-NMB-FO	Box	N/A	1P
HPBOLC	132300 J018	+ BOLC to FPU SIH-XP-12 (535-540,545-548)	DCMA-62S-NMB-FO	Box	N/A	1P
HPBOLC	132300 P001	+ BOLC to FPU SIH-XP-05 (601b;601c)	SCC340100201BDCMA37SNM	H/N	CA-43-37	1P
HPBOLC	132300 P002	+ BOLCto FPUSIH-XP-05 (602b;602c)	SCC340100201BDCMA37SNM	H/N	CA-43-37	1P
HPBOLC	132300 P003	+ BOLC to FPU SIH-XP-05 (603..605)	SCC340100201BDCMA37PNM	H/N	CA-43-37	1P
HPBOLC	132300 P004	+ BOLC to FPU SIH-XP-06 (606)	SCC340100201BDCMA37SNM	H/N	CA-42-37	1P
HPBOLC	132300 P005	+ BOLCto FPU SIH-XP-06 (607)	SCC340100201BDCMA37SNM	H/N	CA-42-37	1P
HPBOLC	132300 P006	+ BOLC FPU SIH-XP-06 (608-610)	SCC340100201BDCMA37PNM	H/N	CA-42-37	1P
HPBOLC	132300 P007	+ BOLC to FPUSIH-XP-07 (611)	SCC340100201BDCMA37SNM	H/N	CA-43-37	1P
HPBOLC	132300 P008	+ BOLC FPU SIH-XP-07 (612)	SCC340100201BDCMA37SNM	H/N	CA-43-37	1P
HPBOLC	132300 P009	+ BOLC to FPU SIH-XP-07 (613-615)	SCC340100201BDCMA37PNM	H/N	CA-43-37	1P
HPBOLC	132300 P010	+ BOLC FPU SIH-XP-08 (616)	SCC340100201BDCMA37SNM	H/N	CA-42-37	1P
HPBOLC	132300 P011	+ BOLC FPU SIH-XP-08 (617)	SCC340100201BDCMA37SNM	H/N	CA-42-37	1P
HPBOLC	132300 P012	+ BOLC to FPUSIH-XP-08 (618-620)	SCC340100201BDCMA37PNM	H/N	CA-42-37	1P
HPBOLC	132300 P013	+ BOLC to FPU Sih-XP-09 (621)	SCC340100201BDCMA37SNM	H/N	CA-43-37	1P
HPBOLC	132300 P014	+ BOLC FPU SIH-XP-09 (622-624)	SCC340100201BDCMA37PNM	H/N	CA-43-37	1P
HPBOLC	132300 P015	+ BOLC to FPU SIH-XP-10 (625)	SCC340100201BDCMA37SNM	H/N	CA-42-37	1P
HPBOLC	132300 P016	+ BOLC to FPU SIH-XP-10 (626-628)	SCC340100201BDCMA37PNM	H/N	CA-42-37	1P
HPBOLC	132300 P017	+ BOLC to FPU SIH-XP-11 (529-34,541-544)	SCC340100202BDCMA62PNM	H/N	CA-43-37	1P
HPBOLC	132300 P018	+ BOLC to FPU SIH-XP-12 (535-540,545-548)	SCC340100202BDCMA62PNM	H/N	CA-43-37	1P
H TEL CB	141100 J001	Telescope Heater nom. from PDU A	MS27497T14F18SA	H/N	TBD	1P
H TEL CB	141100 J002	Telescope Heater red. from PDU B	MS27497T14F18SB	H/N	TBD	1P
H TEL CB	141100 J003	Telescope Sensors to CCU A	MS27497T14F35SA	H/N	TBD	1P
H TEL CB	141100 J004	Telescope Sensors to CCU B	MS27497T14F35SB	H/N	TBD	1P
H TEL CB	141100 P001	Telescope Heater nom. from PDU A	MS27484T14F18PA	Box	G9254_524_14_*xy	1P
H TEL CB	141100 P002	Telescope Heater red. from PDU B	MS27484T14F18PB	Box	G9254_524_14_*xy	1P
H TEL CB	141100 P003	Telescope Sensors to CCU A	MS27484T14F35PA	Box	G9254_524_14_*xy	1P
H TEL CB	141100 P004	Telescope Sensors to CCU B	MS27484T14F35PB	Box	G9254_524_14_*xy	1P

<b>Astrium GmbH</b>		<b>Connector Reference List</b>	Doc. No. : HP-2-ASED-IC-0001
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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
CVVUCR	211121 J001	SIH-XP-04 (16b;68-74;16a;61-67;10-12)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J002	SIH-XP-03 (7-9;15a;46-52;15b;53-60;76)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J003	SIH-XP-14 (82-86;92-96;120-122;105-112)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J004	SIH-XP-15 (117-119;123;100-104;97-99)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J005	SIH-XP-05 (601b/c;602b/c;603-605;603b)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J006	SIH-XP-06 (606b/c;607b/c;608b;609;610)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J007	SIH-XP-13 (77-81;87-91;113-115;116/a;124)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J008	SIH-XP-02 (14b;39-45;14a;32-38;4-6)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J009	SIH-XP-01 (1-3;13a;17-23;13b;24-31;75)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J010	SIH-XP-07 (611b/c;612b/c;613b;614;615)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J011	SIH-XP-08 (616b/c;617b/c;618b;619;620)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J012	SIH-XP-09 (621b/c;622b;623;624)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J013	SIH-XP-10 (625b/c;626b;627;628)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J014	SIH-XP-11 (629-634;641-644)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J015	SIH-XP-12 (635-640;645-648)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J016	SIH-XH-02	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1H
CVVUCR	211121 J017	SIH-XH-05	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1H
CVVUCR	211121 J018	SIH-XH-01	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1H
CVVUCR	211121 J019	SIH-XH-03	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1H
CVVUCR	211121 J020	SIH-XH-04	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1H
CVVUCR	211121 J021	HIFI COAX SIH-XH-21 - SIH-XH-24	TBD	H/N	TBD	1H
CVVUCR	211121 J022	UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J023	UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J024	UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J025	UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J026	UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J027	UFThr 257.0° (SPIRE XS-08 JFP 5,6,.,7,8)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J028	UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J029	UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J030	UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J031	UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J032	UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J033	UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J034	UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)	197-011P24-35PN (Junct.)	H/N	128/175_176_01_0A	1P
CVVUCR	211121 J035	UFThr. 324.3° (CCH V01 to CCU A)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J036	UFThr. 340.8° (CCH V02 to CCU B)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J037	UFThr. 347.0° (CCH V03 to Cryo SCOE 1)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 J038	UFThr. 353.2° (CCH V04 to Cryo SCOE 2)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVUCR	211121 P001	SIH-XP-04 (16b;68-74;16a;61-67;10-12)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P002	SIH-XP-03 (7-9;15a;46-52;15b;53-60;76)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P003	SIH-XP-14 (82-86;92-96;120-122;105-112)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P004	SIH-XP-15 (117-119;123;100-104;97-99)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P005	SIH-XP-05 (601b/c;602b/c;603-605;603b)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P006	SIH-XP-06 (606b/c;607b/c;608b;609;610)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P007	SIH-XP-13 (77-81;87-91;113-115;116/a;124)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P008	SIH-XP-02 (14b;39-45;14a;32-38;4-6)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P009	SIH-XP-01 (1-3;13a;17-23;13b;24-31;75)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P010	SIH-XP-07 (611b/c;612b/c;613b;614;615)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P011	SIH-XP-08 (616b/c;617b/c;618b;619;620)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P012	SIH-XP-09 (621b/c;622b;623;624)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P013	SIH-XP-10 (625b/c;626b;627;628)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P014	SIH-XP-11 (629-634;641-644)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P015	SIH-XP-12 (635-640;645-648)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P016	SIH-XH-02	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1H
CVVUCR	211121 P017	SIH-XH-05	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1H
CVVUCR	211121 P018	SIH-XH-01	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1H
CVVUCR	211121 P019	SIH-XH-03	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1H
CVVUCR	211121 P020	SIH-XH-04	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1H
CVVUCR	211121 P021	HIFI COAX SIH-XH-21 - SIH-XH-24	TBD	H/N	TBD	1H
CVVUCR	211121 P022	UFThr 193.0° (SPIRE XS-04JFP21,22,23,24)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P023	UFThr 199.2° (SPIRE XS-05JFP17,18,19,20)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P

<b>Astrium GmbH</b>		<b>Connector Reference List</b>	Doc. No. : HP-2-ASED-IC-0001	
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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
CVVUCR	211121 P024	UFThr 215.0° (SPIRE XS-06JFP13,14,15,16)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P025	UFThr 235.0° (SPIRE XS-07 JFP9,10,11,12)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P026	UFThr 250.8° (SPIRE XS-03JFP25,26,27,28)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P027	UFThr 257.0° (SPIRE XS-08 JFP 5,6,7,8)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P028	UFThr 263.2° (SPIRE XS-09 JFP 1,2,3,4)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P029	UFThr 276.8° (SPIRE XS-13 FPU 26,28,30)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P030	UFThr. 283.0° (SPIRE XS-11 FPU 25,27,29)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P031	UFThr. 289.2° (SPIRE XS-02JFS 1,2,3,4,7)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P032	UFThr. 305.7° (SPIRE XS-01 JFS 5,6,9,10)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P033	UFThr. 311.9° (SPIRE XS-12 FPU 20,22,24)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P034	UFThr. 318.1° (SPIRE XS-10 FPU 19,21,23)	197-012P24-35SN (Plug)	H/N	G9254 F24 M / M24-0	1P
CVVUCR	211121 P035	UFThr. 324.3° (CCH V01 to CCU A)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P036	UFThr. 340.8° (CCH V02 to CCU B)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P037	UFThr. 347.0° (CCH V03 to Cryo SCOE 1)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVUCR	211121 P038	UFThr. 353.2° (CCH V04 to Cryo SCOE 2)	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 J001	CVV L FThr. 018.5° V25 ?	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J002	CVV L FThr. 036.0° V Acc Htt, Hot-FacRO	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J003	CVV L FThr. 054.0° (Spare Cables)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J004	CVV L FThr. 071.5° (Position not used)	197-011P22-35PN (Junct.)	H/N	TBD	1P
CVVLCR	211123 J005	CVV L FThr. 126.0° Vent,Htr,LL to EGSE	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J006	CVV L FThr. 144.0° Vent Htr LL to EGSE	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J007	CVV L FThr. 161.5°	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J008	CVV L FThr. 198.5°	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J009	CVV L FThr. 220.0°	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J010	CVV L FThr. 230.0° (poss. Umbil.)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J011	CVV L FThr. 257.5° (poss. Umbil.)	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J012	CVV L FThr. 288.0° V21	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J013	CVV L FThr. 306.0° V22	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J014	CVV L FThr. 324.0° V23 ?	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 J015	CVV L FThr. 341.5° V24 ?	197-011P22-35PN (Junct.)	H/N	100/172_173_01_0A	1P
CVVLCR	211123 P001	CVV L FThr. 018.5° V25 ?	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P002	CVV L FThr. 036.0° V Acc Htt, Hot-FacRO	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P003	CVV L FThr. 054.0° (Spare Cables)	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P004	CVV L FThr. 071.5° (Position not used)	MS27484T22F-35S (Pl+Shl)	H/N	NVA	1P
CVVLCR	211123 P005	CVV L FThr. 126.0° Vent,Htr,LL to EGSE	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P006	CVV L FThr. 144.0° Vent Htr LL to EGSE	197-012P22-35SN (Plug)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P007	CVV L FThr. 161.5°	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P008	CVV L FThr. 198.5°	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P009	CVV L FThr. 220.0°	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P010	CVV L FThr. 230.0° (poss. Umbil.)	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P011	CVV L FThr. 257.5° (poss. Umbil.)	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P012	CVV L FThr. 288.0° V21	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P013	CVV L FThr. 306.0° V22	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P014	CVV L FThr. 324.0° V23 ?	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CVVLCR	211123 P015	CVV L FThr. 341.5° V24 ?	MS27484T22F-35S (Pl+Shl)	H/N	G9254 F22 M / M22-0	1P
CC CB	211310 J001	Cover Status Ind. Close nom. SI603	MWDM2L-15S-6C3-.630	H/N	TBD	1P
CC CB	211310 J002	Cover Status Ind. Close red. SI604	MWDM2L-15S-6C3-.630	H/N	TBD	1P
CC CB	211310 J003	Cover NCA N601	SCC3401-04401B03-12-98PA	H/N	TBD	1P
CC CB	211310 J004	Cover NCA N602	SCC3401-04401B03-12-98PB	H/N	TBD	1P
CC CB	211310 J005	Cover Status Ind. Open nom. SI601	SCC3401-04401B03-12-35PA	H/N	TBD	1P
CC CB	211310 J006	Cover Status Ind. Open red. SI602	MWDM2L-09S-6C3-.630	H/N	TBD	1P
CC CB	211310 P001	Cover Status Ind. Close nom. SI603	MWDM2L-15P-6C3-.630	H/N	TBD	1P
CC CB	211310 P002	Cover Status Ind. Close red. SI604	MWDM2L-15P-6C3-.630	H/N	TBD	1P
CC CB	211310 P003	Cover NCA N601	SCC3401-04401B06G-12-98SA	H/N	TBD	1P
CC CB	211310 P004	Cover NCA N602	SCC3401-04401B06G-12-98SB	H/N	TBD	1P
CC CB	211310 P005	Cover Status Ind. Open nom. SI601	SCC3401-04401B06G-12-35SA	H/N	TBD	1P
CC CB	211310 P006	Cover Status Ind. Open red. SI602	MWDM2L-09P-6C3-.630	H/N	TBD	1P
CC FTH CB	211311 J007	Cover Inside Thermal Sensors	MWDM2L-15S-6C3-.630	H/N	TBD	1P
CC FTH CB	211311 P007	Cover Inside Thermal Sensors	MWDM2L-15P-6C3-.630	H/N	TBD	1P

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HOT CB	212510 J001	HOT Connector Bracket	MWDM2L-15S-6C3-.630	H/N	TBD	1P
HOT CB	212510 J002	HOT Connector Bracket	MWDM2L-15S-6C3-.630	H/N	TBD	1P
HOT CB	212510 P001	HOT Connector Bracket	MWDM2L-15P-6C3-.630	H/N	TBD	1P
HOT CB	212510 P002	HOT Connector Bracket	MWDM2L-15P-6C3-.630	H/N	TBD	1P
CCU	214100 J001	+ CCU NOM T-Sens 2xT0, 4xT1, 3xT2	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J002	+ CCU NOM T-Sens 3xT3, 2xP-Sens	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J003	+ CCU NOM T-Sens 9xT4	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J004	+ CCU NOM T-Sens 10xT5	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J005	+ CCU NOM T-Sens 10xT5	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J006	+ CCU NOM T-Sens 10xT 5	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J007	+ CCU NOM Valve/DLCM Ctrl	DBMA-25S-NMB-FO	Box	N/A	1P
CCU	214100 J008	+ CCU NOM Valve/DLCM Mon	DBMA-25S-NMB-FO	Box	N/A	1P
CCU	214100 J009	+ CCU NOM OBDH I/F In	SCC340100201BDEMA09SNM	Box	N/A	1P
CCU	214100 J010	+ CCU NOM OBDH I/F Out	SCC340100201BDEMA09SNM	Box	N/A	1P
CCU	214100 J011	+ CCU NOM Dry Valve Cmd Ariane	DAMA-15P-NMB-FO	Box	N/A	1P
CCU	214100 J012	+ CCU NOM S/C PWR	DAMA-15P-NMB-FO	Box	N/A	1P
CCU	214100 J013	+ CCU NOM Test Mil Bus Adress	DAMA-15S-NMB-FO	Box	N/A	1P
CCU	214100 J014	+ CCU RED T-Sens 2xT0, 4xT1, 3xT2	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J015	+ CCU RED T-Sens 3xT3, 2xP-Sens	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J016	+ CCU RED T-Sens 9xT4	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J017	+ CCU RED T-Sens 10xT5	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J018	+ CCU RED T-Sens 10xT5	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J019	+ CCU RED T-Sens 10xT 5	DDMA-50S-NMB-FO	Box	N/A	1P
CCU	214100 J020	+ CCU RED Valve/DLCM Ctrl	DBMA-25S-NMB-FO	Box	N/A	1P
CCU	214100 J021	+ CCU RED Valve/DLCM Mon	DBMA-25S-NMB-FO	Box	N/A	1P
CCU	214100 J022	+ CCU RED OBDH I/F In	SCC340100201BDEMA09SNM	Box	N/A	1P
CCU	214100 J023	+ CCU RED OBDH I/F Out	SCC340100201BDEMA09SNM	Box	N/A	1P
CCU	214100 J024	+ CCU RED Dry Valve Cmd Ariane	DAMA-15P-NMB-FO	Box	N/A	1P
CCU	214100 J025	+ CCU RED S/C PWR	DAMA-15P-NMB-FO	Box	N/A	1P
CCU	214100 J026	+ CCU RED Test Mil Bus Adress	DAMA-15S-NMB-FO	Box	N/A	1P
CCU	214100 P001	+ CCU NOM T-Sens 2xT0, 4xT1, 3xT2	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P002	+ CCU NOM T-Sens 3xT3, 2xP-Sens	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P003	+ CCU NOM T-Sens 9xT4	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P004	+ CCU NOM T-Sens 10xT5	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P005	+ CCU NOM T-Sens 10xT5	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P006	+ CCU NOM T-Sens 10xT 5	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P007	+ CCU NOM Valve/DLCM Ctrl	DBMA-25P-NMB-FO	H/N	TBD	1P
CCU	214100 P008	+ CCU NOM Valve/DLCM Mon	DBMA-25P-NMB-FO	H/N	TBD	1P
CCU	214100 P009	+ CCU NOM OBDH I/F In	DEMA-09P-NMB-FO	H/N	TBD	1P
CCU	214100 P010	+ CCU NOM OBDH I/F Out	DEMA-09P-NMB-FO	H/N	TBD	1P
CCU	214100 P011	+ CCU NOM Dry Valve Cmd Ariane	DAMA-15S-NMB-FO	H/N	TBD	1P
CCU	214100 P012	+ CCU NOM S/C PWR	DAMA-15S-NMB-FO	H/N	TBD	1P
CCU	214100 P013	+ CCU NOM Test Mil Bus Adress	DAMA-15P-NMB-FO	H/N	TBD	1P
CCU	214100 P014	+ CCU RED T-Sens 2xT0, 4xT1, 3xT2	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P015	+ CCU RED T-Sens 3xT3, 2xP-Sens	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P016	+ CCU RED T-Sens 9xT4	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P017	+ CCU RED T-Sens 10xT5	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P018	+ CCU RED T-Sens 10xT5	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P019	+ CCU RED T-Sens 10xT 5	DDMA-50P-NMB-FO	H/N	TBD	1P
CCU	214100 P020	+ CCU RED Valve/DLCM Ctrl	DBMA-25P-NMB-FO	H/N	TBD	1P
CCU	214100 P021	+ CCU RED Valve/DLCM Mon	DBMA-25P-NMB-FO	H/N	TBD	1P
CCU	214100 P022	+ CCU RED OBDH I/F In	DEMA-09P-NMB-FO	H/N	TBD	1P
CCU	214100 P023	+ CCU RED OBDH I/F Out	DEMA-09P-NMB-FO	H/N	TBD	1P
CCU	214100 P024	+ CCU RED Dry Valve Cmd Ariane	DAMA-15S-NMB-FO	H/N	TBD	1P
CCU	214100 P025	+ CCU RED S/C PWR	DAMA-15S-NMB-FO	H/N	TBD	1P
CCU	214100 P026	+ CCU RED Test Mil Bus Adress	DAMA-15P-NMB-FO	H/N	TBD	1P



# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
USFW-CB	214332 J001	OBA T Sensors to CCU A	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214332 J002	OBA T Sensors to CCU B	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214332 J003	OBA T Sensors to EGSE	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214332 J004	OBA tbd	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214332 P001	OBA T Sensors to CCU A	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214332 P002	OBA T Sensors to CCU B	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214332 P003	OBA T Sensors to EGSE	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214332 P004	OBA tbd	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214333 J001	OBA T Sensors to CCU A (DCA13)	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214333 J002	OBA T Sensors to CCU B (DCB12)	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214333 J003	OBA T Sensors to CCU B (DCB16)	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214333 J004	OBA Acc. To EGSE (DCE22)	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214333 P001	OBA T Sensors to CCU A (DCA13)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214333 P002	OBA T Sensors to CCU B (DCB12)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214333 P003	OBA T Sensors to CCU B (DCB16)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214333 P004	OBA Acc. To EGSE (DCE22)	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214334 J001	OBA T Sensors to CCU A	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214334 J002	OBA T Sensors to CCU B	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214334 J003	OBA T Sensors to EGSE	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214334 J004	OBA Acceler. to EGSE	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
USFW-CB	214334 P001	OBA T Sensors to CCU A	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214334 P002	OBA T Sensors to CCU B	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214334 P003	OBA T Sensors to EGSE	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
USFW-CB	214334 P004	OBA Acceler. to EGSE	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214341 J003	CCH LSF Con. Bracket T111 DLCM 1	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214341 J004	CCH LSF Con. Bracket T106 DLCM2	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214341 J005	CCH LSF Con. Bracket T101 T112	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214341 J006	CCH LSF Con. Bracket T107 DLCM2	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214341 J007	CCH LSF Con. Bracket T701 T703	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214341 P003	CCH LSF Con. Bracket T111 DLCM 1	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214341 P004	CCH LSF Con. Bracket T106 DLCM2	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214341 P005	CCH LSF Con. Bracket T101 T112	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214341 P006	CCH LSF Con. Bracket T107 DLCM2	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214341 P007	CCH LSF Con. Bracket T701 T703	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214342 J001	Spare H. :10xTP2S038, 1x-B038, 1x-B030	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214342 J002	HTT T113, P101, T114, T103	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214342 J003	HTT A109, A107, A101, A102, A103	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214342 J004	HTT A104, A105, A106, A108	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214342 J005	HOT T702, T704	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214342 J006	HOT A701, A702, A703	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214342 P001	Spare H. :10xTP2S038, 1x-B038, 1x-B030	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214342 P002	HTT T113, P101, T114, T103	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214342 P003	HTT A109, A107, A101, A102, A103	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214342 P004	HTT A104, A105, A106, A108	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214342 P005	HOT T702, T704	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214342 P006	HOT A701, A702, A703	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214343 J001	HTT V104	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214343 J002	HTT V103, VS103	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214343 J003	HTT VH 103, VT103	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214343 J004	HTT V106, VS106	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214343 J005	HTT VH106, VT106	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214343 J006	HTT DLCM1 H101	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214343 J007	HTT H103	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214343 P001	HTT V104	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214343 P002	HTT V103, VS103	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214343 P003	HTT VH 103, VT103	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214343 P004	HTT V106, VS106	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214343 P005	HTT VH106, VT106	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214343 P006	HTT DLCM1 H101	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214343 P007	HTT H103	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P

**Connector  
Reference List**

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
LSFW-CB	214344 J003	HOT L701, H701	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214344 J004	HOT L702, H702	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214344 J005	HTT L102, V102	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214344 J006	HTT L101, H104	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214344 J007	HTT DLCM 2 H102	MWDM2L-25S-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214344 P003	HOT L701, H701	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214344 P004	HOT L702, H702	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214344 P005	HTT L102, V102	MWDM2L-25P-6C3-.630	H/N	BS-SS-171-01	1P
LSFW-CB	214344 P006	HTT L101, H104	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
LSFW-CB	214344 P007	HTT DLCM 2 H102	MWDM2L-25P-6C3-.630	H/N	BS-SS-17D-01	1P
OBS-CB	214411 J001	HIFI Instr Shd T211 Sensors to EGSE	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
OBS-CB	214411 J002	PACS Instr Shd T212 Sensors to CCU A	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
OBS-CB	214411 J003	SPIRE Instr Shd T213 Sensors to CCU B	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
OBS-CB	214411 P001	HIFI Instr Shd T211 Sensors to EGSE	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
OBS-CB	214411 P002	PACS Instr Shd T212 Sensors to CCU A	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
OBS-CB	214411 P003	SPIRE Instr Shd T213 Sensors to CCU B	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
TS-CB	214421 J001	T421 Connector Bracket	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214421 P001	T421 Connector Bracket	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214422 J001	T422 Connector Bracket	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214422 P001	T422 Connector Bracket	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214423 J001	T423 1st Shd UCFS to EGSE 1	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214423 P001	T423 1st Shd UCFS to EGSE 1	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214424 J001	T424 1st Shd UCFS to CCU A	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214424 P001	T424 1st Shd UCFS to CCU A	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214425 J001	ACC 1st Shd UCFS to EGSE 2	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214425 P001	ACC 1st Shd UCFS to EGSE 2	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214441 J001	T441 Connector Bracket	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214441 P001	T441 Connector Bracket	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214442 J001	T442 Connector Bracket	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214442 P001	T442 Connector Bracket	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214443 J001	2nd Shd UCSS to EGSE 1	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214443 P001	2nd Shd UCSS to EGSE 1	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214444 J001	2nd Shd UCSS to CCU B	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214444 P001	2nd Shd UCSS to CCU B	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214461 J001	T461 Connector Bracket	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214461 P001	T461 Connector Bracket	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214462 J001	T462 Connector Bracket	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214462 P001	T462 Connector Bracket	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214463 J001	3rd Shd UCTS to EGSE 1	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214463 P001	3rd Shd UCTS to EGSE 1	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
TS-CB	214464 J001	3rd Shd UCTS to CCU A	MWDM2L-09S-6C3-.630	H/N	BS-SS-144-01	1P
TS-CB	214464 P001	3rd Shd UCTS to CCU A	MWDM2L-09P-6C3-.630	H/N	BS-SS-143-01	1P
HTTA101	21A101 J001	HTTAccelerometerA101	ENDEVCO-EN-159	Box	N/A	1P
HTTA101	21A101 P001	HTTAccelerometerA101	ENDEVCO-EP-159	H/N	N/A	1P
HTTA102	21A102 J001	HTTAccelerometerA102	ENDEVCO-EN-159	Box	N/A	1P
HTTA102	21A102 P001	HTTAccelerometerA102	ENDEVCO-EP-159	Itm	N/A	1P
HTTA103	21A103 J001	HTTAccelerometerA103	ENDEVCO-EN-159	Box	N/A	1P
HTTA103	21A103 P001	HTTAccelerometerA103	ENDEVCO-EP-159	Itm	N/A	1P
HTTA104	21A104 J001	HTTAccelerometerA104	ENDEVCO-EN-159	Box	N/A	1P
HTTA104	21A104 P001	HTTAccelerometerA104	ENDEVCO-EP-159	Itm	N/A	1P
HTTA105	21A105 J001	HTTAccelerometerA105	ENDEVCO-EN-159	Box	N/A	1P
HTTA105	21A105 P001	HTTAccelerometerA105	ENDEVCO-EP-159	Itm	N/A	1P
HTTA106	21A106 J001	HTTAccelerometerA106	ENDEVCO-EN-159	Box	N/A	1P
HTTA106	21A106 P001	HTTAccelerometerA106	ENDEVCO-EP-159	Itm	N/A	1P
HTTA107	21A107 J001	HTTAccelerometerA107	ENDEVCO-EN-159	Box	N/A	1P
HTTA107	21A107 P001	HTTAccelerometerA107	ENDEVCO-EP-159	Itm	N/A	1P
HTTA108	21A108 J001	HTTAccelerometerA108	ENDEVCO-EN-159	Box	N/A	1P
HTTA108	21A108 P001	HTTAccelerometerA108	ENDEVCO-EP-159	Itm	N/A	1P
HTTA109	21A109 J001	HTTAccelerometerA109	ENDEVCO-EN-159	Box	N/A	1P
HTTA109	21A109 P001	HTTAccelerometerA109	ENDEVCO-EP-159	Itm	N/A	1P

**Connector  
Reference List**

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
OBA201	21A201 J001	OBAccelerometerA201	ENDEVCO-EN-159	Box	N/A	1P
OBA201	21A201 P001	OBAccelerometerA201	ENDEVCO-EP-159	lrm	N/A	1P
OBA202	21A202 J001	OBAccelerometerA202	ENDEVCO-EN-159	Box	N/A	1P
OBA202	21A202 P001	OBAccelerometerA202	ENDEVCO-EP-159	lrm	N/A	1P
OBA203	21A203 J001	OBAccelerometerA203	ENDEVCO-EN-159	Box	N/A	1P
OBA203	21A203 P001	OBAccelerometerA203	ENDEVCO-EP-159	lrm	N/A	1P
OBA204	21A204 J001	OBAccelerometerA204	ENDEVCO-EN-159	Box	N/A	1P
OBA204	21A204 P001	OBAccelerometerA204	ENDEVCO-EP-159	lrm	N/A	1P
OBA205	21A205 J001	OBAccelerometerA205	ENDEVCO-EN-159	Box	N/A	1P
OBA205	21A205 P001	OBAccelerometerA205	ENDEVCO-EP-159	lrm	N/A	1P
OBA206	21A206 J001	OBAccelerometerA206	ENDEVCO-EN-159	Box	N/A	1P
OBA206	21A206 P001	OBAccelerometerA206	ENDEVCO-EP-159	lrm	N/A	1P
PACSA207	21A207 J001	PACS AccelerometerA207	ENDEVCO-EN-159	Box	N/A	1P
PACSA207	21A207 P001	PACS AccelerometerA207	ENDEVCO-EP-159	lrm	N/A	1P
PACSA208	21A208 J001	PACS AccelerometerA208	ENDEVCO-EN-159	Box	N/A	1P
PACSA208	21A208 P001	PACS AccelerometerA208	ENDEVCO-EP-159	lrm	N/A	1P
A4211stSh	21A421 J001	1stShIdA421	ENDEVCO-EN-159	Box	N/A	1P
A4211stSh	21A421 P001	1stShIdA421	ENDEVCO-EP-159	lrm	N/A	1P
A422 1stSh	21A422 J001	1stShIdA422	ENDEVCO-EN-159	Box	N/A	1P
A422 1stSh	21A422 P001	1stShIdA422	ENDEVCO-EP-159	lrm	N/A	1P
HOTA701	21A701 J001	HOTA701	ENDEVCO-EN-159	Box	N/A	1P
HOTA701	21A701 P001	HOTA701	ENDEVCO-EP-159	lrm	N/A	1P
HOTA702	21A702 J001	HOTA702	ENDEVCO-EN-159	Box	N/A	1P
HOTA702	21A702 P001	HOTA702	ENDEVCO-EP-159	lrm	N/A	1P
HOTA703	21A703 J001	HOTA703	ENDEVCO-EN-159	Box	N/A	1P
HOTA703	21A703 P001	HOTA703	ENDEVCO-EP-159	lrm	N/A	1P
DLCM 1	21D101 J001	+ DLCM1 HS101, T105, T101 Connector	MWDM2L-15S-6C3-.630	lrm	N/A	1P
DLCM 1	21D101 J002	+ DLCM1 H101 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
DLCM 1	21D101 P001	+ DLCM1 HS101, T105, T101 Connector	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
DLCM 1	21D101 P002	+ DLCM1 H101 Connector	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
DLCM 2	21D102 J001	+ DLCM2 HS102, T104, T102 Connector	MWDM2L-15S-6C3-.630	lrm	N/A	1P
DLCM 2	21D102 J002	+ DLCM2 H102 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
DLCM 2	21D102 P001	+ DLCM2 HS102, T104, T102 Connector	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
DLCM 2	21D102 P002	+ DLCM2 H102 Connector	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HTTH103	21H103 J001	+ HTT-H103	MWDM2L-09S-6C3-.630	Box	N/A	1P
HTTH103	21H103 P001	+ HTT-H103	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HTTH104	21H104 J001	+ HTT-H104	MWDM2L-09S-6C3-.630	Box	N/A	1P
HTTH104	21H104 P001	+ HTT-H104	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HT 9.x M1	21H331 J001	+ Telescope H331 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 9.x M1	21H331 P001	+ Telescope H331 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HT 3.x M1	21H332 J001	+ Telescope H332 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 3.x M1	21H332 P001	+ Telescope H332 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HT 4.x M1	21H333 J001	+ Telescope H333 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 4.x M1	21H333 P001	+ Telescope H333 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HT 5.x M1	21H334 J001	+ Telescope H334 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 5.x M1	21H334 P001	+ Telescope H334 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HT 6.x M1	21H335 J001	+ Telescope H335 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 6.x M1	21H335 P001	+ Telescope H335 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HT 7.x M1	21H336 J001	+ Telescope H336 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 7.x M1	21H336 P001	+ Telescope H336 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HT 8.x M1	21H337 J001	+ Telescope H337 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 8.x M1	21H337 P001	+ Telescope H337 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HT 1 M2	21H338 J001	+ Telescope H331 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 1 M2	21H338 P001	+ Telescope H331 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HT 2 M2	21H339 J001	+ Telescope H339 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HT 2 M2	21H339 P001	+ Telescope H339 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HighPwH50	21H501 J001	+ Ventline Unit H501 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
HighPwH50	21H501 P001	+ Ventline Unit H501 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
ExVentH502	21H502 J001	+ external Ventline H502 Connector	MWDM2L-09S-6C3-.630	lrm	N/A	1P
ExVentH502	21H502 P001	+ external Ventline H502 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P

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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
ExVentH503	21H503 J001	+ external Ventline H503 Connector	MWDM2L-09S-6C3-.630	ltn	NVA	1P
ExVentH503	21H503 P001	+ external Ventline H503 Connector	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HOTH701	21H701 J001	+ HOTH701-50ohm	MWDM2L-09S-6C3-.630	Box	NVA	1P
HOTH701	21H701 P001	+ HOTH701-50ohm	MWDM2L-09P-6C3-.630	H/N	LBS9P_11F	1P
HOTH702	21H702 J001	+ HOTH702-50ohm	MWDM2L-09S-6C3-.630	Box	NVA	1P
HOTH702	21H702 P001	+ HOTH702-50ohm	MWDM2L-09P-6C3-.630	H/N	LBS9P_11F	1P
HTTL101	21L101 J001	HTTL101	MWDM2L-09S-6C3-.630	Box	NVA	1P
HTTL101	21L101 P001	HTTL101	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HTTL102	21L102 J001	HTTL102	MWDM2L-09S-6C3-.630	Box	NVA	1P
HTTL102	21L102 P001	HTTL102	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HOTL701	21L701 J001	HOTL701	MWDM2L-09S-6C3-.630	Box	NVA	1P
HOTL701	21L701 P001	HOTL701	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HOTL702	21L702 J001	HOTL702	MWDM2L-09S-6C3-.630	Box	NVA	1P
HOTL702	21L702 P001	HOTL702	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
CovN601	21N601 J001	+ Cover NCA N601 Connector	SCC3401-04401B03-12-98PA	ltn	NVA	1P
CovN601	21N601 P001	+ Cover NCA N601 Connector	SCC3401-04401B06G-12-98SA	ltn	NVA	1P
CovN602	21N602 J001	+ Cover NCA N602 Connector	SCC3401-04401B03-12-98PB	ltn	NVA	1P
CovN602	21N602 P001	+ Cover NCA N602 Connector	SCC3401-04401B06G-12-98SB	H/N	TBD	1P
HTTP101	21P101 J001	HTTP101	MWDM2L-09S-6C3-.630	Box	NVA	1P
HTTP101	21P101 P001	HTTP101	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
HTTP102	21P102 J001	HTTP102	NDDM15SN-BN460-A	Box	NVA	1P
HTTP102	21P102 P001	HTTP102	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
ExVentP501	21P501 J001	+ external Ventline P501 Connector	197-012P10-98S (Plug)	ltn	NVA	1P
ExVentP501	21P501 P001	+ external Ventline P501 Connector	197-012P10-98S (Plug)	H/N	TBD	1P
ExVentP502	21P502 J001	+ external Ventline P502 Connector	197-012P10-98S (Plug)	ltn	NVA	1P
ExVentP502	21P502 P001	+ external Ventline P502 Connector	197-012P10-98S (Plug)	H/N	TBD	1P
HOTP701	21P701 J001	+ lower SFW P701	MWDM2L-09S-6C3-.630	ltn	NVA	1P
HOTP701	21P701 P001	+ lower SFW P701	MWDM2L-09P-6C3-.630	H/N	TBD	1P
HTTTPS1	21PPS1 J001	+ HTTPhaseSep-T111/112-C100	MWDM2L-09S-6C3-.630	H/N	NVA	1P
HTTTPS1	21PPS1 P001	+ HTTPhaseSep-T111/112-C100	MWDM2L-09P-6C3-.630	H/N	BS-SS-17A-01	1P
CovSNO601	21S601 J001	+ Cover Status Ind. Open nom. Con. SI601	SCC3401-04401B03-12-98PA	ltn	NVA	1P
CovSNO601	21S601 P001	+ Cover Status Ind. Open nom. Con. SI601	SCC3401-04401B06G-12-98SA	ltn	NVA	1P
CovSNC602	21S602 J001	+ Cover Status Ind. Open red. Con. SI602	tbd	ltn	NVA	1P
CovSNC602	21S602 P001	+ Cover Status Ind. Open red. Con. SI602	tbd	H/N	TBD	1P
CovSRO603	21S603 J001	+ Cover Status Ind. Close nom. Con. SI603	tbd	ltn	NVA	1P
CovSRO603	21S603 P001	+ Cover Status Ind. Close nom. Con. SI603	tbd	H/N	TBD	1P
CovSRC604	21S604 J001	+ Cover Status Ind. Close red. Con. SI604	tbd	ltn	NVA	1P
CovSRC604	21S604 P001	+ Cover Status Ind. Close red. Con. SI604	tbd	H/N	TBD	1P
HTTT103	21T103 J001	+ T103 HTT-Pt1000	NDDM15SN-BN460-A	Box	NVA	1P
HTTT103	21T103 P001	+ T103 HTT-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTT104	21T104 J001	+ T104 HTT-C100	NDDM15SN-BN460-A	Box	NVA	1P
HTTT104	21T104 P001	+ T104 HTT-C100	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTT105	21T105 J001	+ T105 HTT-C100	NDDM15SN-BN460-A	Box	NVA	1P
HTTT105	21T105 P001	+ T105 HTT-C100	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTT106	21T106 J001	+ T106 HTT-C100	NDDM15SN-BN460-A	Box	NVA	1P
HTTT106	21T106 P001	+ T106 HTT-C100	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTT107	21T107 J001	+ T107 HTT-C100	NDDM15SN-BN460-A	Box	NVA	1P
HTTT107	21T107 P001	+ T107 HTT-C100	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTT113	21T113 J001	+ T113 HTT-C100	NDDM15SN-BN460-A	Box	NVA	1P
HTTT113	21T113 P001	+ T113 HTT-C100	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTT114	21T114 J001	+ T114 HTT-C100	NDDM15SN-BN460-A	Box	NVA	1P
HTTT114	21T114 P001	+ T114 HTT-C100	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
OBAT202	21T202 J001	+ T202 OBnearPACS-C100	NDDM15SN-BN460-A	H/N	NVA	1P
OBAT202	21T202 P001	+ T202 OBnearPACS-C100	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
OBAT207	21T207 J001	+ T207 OBA near HIFI -Y+Z foot Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
OBAT207	21T207 P001	+ T207 OBA near HIFI -Y+Z foot Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
OBAT208	21T208 J001	+ T208 OBA near HIFI -Y+Z foot C100	NDDM15SN-BN460-A	H/N	NVA	1P
OBAT208	21T208 P001	+ T208 OBA near HIFI -Y+Z foot C100	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
OBIST211	21T211 J001	+ T211 OBA Instr Shd near HIFI Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
OBIST211	21T211 P001	+ T211 OBA Instr Shd near HIFI Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
OBIST212	21T212 J001	+ T212 OBA Instr Shd near PACS C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBIST212	21T212 P001	+ T212 OBA Instr Shd near PACS C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBIST213	21T213 J001	+ T213 OBA Instr Shd near SPIRE C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBIST213	21T213 P001	+ T213 OBA Instr Shd near SPIRE C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT221	21T221 J001	+ T221 OBA CoolStrp1 L0 PACS blueDet C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT221	21T221 P001	+ T221 OBA CoolStrp1 L0 PACS blueDet C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT222	21T222 J001	+ T222 OBA CoolStrp2 L0 PACS redDet C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT222	21T222 P001	+ T222 OBA CoolStrp2 L0 PACS redDet C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT223	21T223 J001	+ T223 OBA CoolStrp3 L0 PACS HePmp C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT223	21T223 P001	+ T223 OBA CoolStrp3 L0 PACS HePmp C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT224	21T224 J001	+ T224 OBA CoolStrp4 L0 PACS Cooler C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT224	21T224 P001	+ T224 OBA CoolStrp4 L0 PACS Cooler C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT225	21T225 J001	+ T225 OBA CoolStrp5 L0 SPIRE SMDet C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT225	21T225 P001	+ T225 OBA CoolStrp5 L0 SPIRE SMDet C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT226	21T226 J001	+ T226 OBA CoolStrp6 L0 SPIRE Cooler C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT226	21T226 P001	+ T226 OBA CoolStrp6 L0 SPIRE Cooler C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT227	21T227 J001	+ T227 OBA CoolStrp7 L0 SPIRE Cooler C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT227	21T227 P001	+ T227 OBA CoolStrp7 L0 SPIRE Cooler C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT228	21T228 J001	+ T228 OBA CoolStrp8 L0 HIFI C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT228	21T228 P001	+ T228 OBA CoolStrp8 L0 HIFI C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT231	21T231 J001	+ T231 OBA Vent InL1 upstr1 PACS C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT231	21T231 P001	+ T231 OBA Vent InL1 upstr1 PACS C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT232	21T232 J001	+ T232 OBA Vent InL1 downstr1 PACS C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT232	21T232 P001	+ T232 OBA Vent InL1 downstr1 PACS C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT233	21T233 J001	+ T233 OBA Vent InL1 downstr2 PACS C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT233	21T233 P001	+ T233 OBA Vent InL1 downstr2 PACS C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT234	21T234 J001	+ T234 OBA Vent InL1 downstr2 PACS C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT234	21T234 P001	+ T234 OBA Vent InL1 downstr2 PACS C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT235	21T235 J001	+ T235 OBA Vent InL1 upstr3 SPIRE C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT235	21T235 P001	+ T235 OBA Vent InL1 upstr3 SPIRE C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT236	21T236 J001	+ T236 OBA Vent InL1downstr3 SPIRE C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT236	21T236 P001	+ T236 OBA Vent InL1downstr3 SPIRE C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT237	21T237 J001	+ T237 OBA Vent InL1 downstr5 HIFI C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT237	21T237 P001	+ T237 OBA Vent InL1 downstr5 HIFI C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT242	21T242 J001	+ T242 OBA L0 SPIRE FPU StrA C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT242	21T242 P001	+ T242 OBA L0 SPIRE FPU StrA C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT244	21T244 J001	+ T244 OBA L1 HIFI FPU side Strap 5	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT244	21T244 P001	+ T244 OBA L1 HIFI FPU side Strap 5	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT246	21T246 J001	+ T246 OBA L3 SPIRE JFP or Strap 2	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT246	21T246 P001	+ T246 OBA L3 SPIRE JFP or Strap 2	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT247	21T247 J001	+ T247 OBA L1 SPIRE JFS Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT247	21T247 P001	+ T247 OBA L1 SPIRE JFS Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT248	21T248 J001	+ T248 OBA L1 SPIRE FPU StrHFS C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT248	21T248 P001	+ T248 OBA L1 SPIRE FPU StrHFS C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT249	21T249 J001	+ T249 OBA SPIRE FPU FS JFS Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT249	21T249 P001	+ T249 OBA SPIRE FPU FS JFS Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT250	21T250 J001	+ T250 OBA SPIRE FPU FSJFS C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT250	21T250 P001	+ T250 OBA SPIRE FPU FSJFS C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT251	21T251 J001	+ T251 OBA SPIRE JFET-P FS Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT251	21T251 P001	+ T251 OBA SPIRE JFET-P FS Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT252	21T252 J001	+ T252 OBA SPIRE FPU FS JFP C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT252	21T252 P001	+ T252 OBA SPIRE FPU FS JFP C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT253	21T253 J001	+ T253 OBA SPIRE FPU HOB Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT253	21T253 P001	+ T253 OBA SPIRE FPU HOB Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT254	21T254 J001	+ T254 OBA SPIRE FPU HOB C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT254	21T254 P001	+ T254 OBA SPIRE FPU HOB C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT255	21T255 J001	+ T255 OBA SPIRE FPU HOB Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT255	21T255 P001	+ T255 OBA SPIRE FPU HOB Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
OBAT256	21T256 J001	+ T256 OBA SPIRE FPU HOB C100	NDDM15SN-BN460-A	H/N	N/A	1P
OBAT256	21T256 P001	+ T256 OBA SPIRE FPU HOB C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P

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OBAT258	21T258 J001	+ T258 OBA SPIRE L2 near -Y-Z foot	NDDM15SN-BN460-A	H/N	NVA	1P
OBAT258	21T258 P001	+ T258 OBA SPIRE L2 near -Y-Z foot	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshIT301	21T301 J001	+ Sunshld-T301-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshIT301	21T301 P001	+ Sunshld-T301-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshIT302	21T302 J001	+ Sunshld-T302-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshIT302	21T302 P001	+ Sunshld-T302-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshIT303	21T303 J001	+ Sunshld-T303-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshIT303	21T303 P001	+ Sunshld-T303-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshIT304	21T304 J001	+ Sunshld-T304-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshIT304	21T304 P001	+ Sunshld-T304-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshIT305	21T305 J001	+ Sunshld-T305-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshIT305	21T305 P001	+ Sunshld-T305-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshIT306	21T306 J001	+ Sunshld-T306-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshIT306	21T306 P001	+ Sunshld-T306-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshaT311	21T311 J001	+ Sunshade-T311-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshaT311	21T311 P001	+ Sunshade-T311-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshaT312	21T312 J001	+ Sunshade-T312-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshaT312	21T312 P001	+ Sunshade-T312-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshaT313	21T313 J001	+ Sunshade-T313-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshaT313	21T313 P001	+ Sunshade-T313-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshaT314	21T314 J001	+ Sunshade-T314-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshaT314	21T314 P001	+ Sunshade-T314-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshaT315	21T315 J001	+ Sunshade-T315-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshaT315	21T315 P001	+ Sunshade-T315-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SunshaT316	21T316 J001	+ Sunshade-T316-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SunshaT316	21T316 P001	+ Sunshade-T316-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SVMSht321	21T321 J001	+ SVMShld-T321-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SVMSht321	21T321 P001	+ SVMShld-T321-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SVMSht322	21T322 J001	+ SVMShld-T322-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SVMSht322	21T322 P001	+ SVMShld-T322-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SVMSht323	21T323 J001	+ SVMShld-T323-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SVMSht323	21T323 P001	+ SVMShld-T323-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
SVMSht324	21T324 J001	+ SVMShld-T324-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
SVMSht324	21T324 P001	+ SVMShld-T324-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH331	21T331 J001	+ Telescope HTTH331 CCU A	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH331	21T331 P001	+ Telescope HTTH331 CCU A	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH332	21T332 J001	+ Telescope HTTH332 CCU B	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH332	21T332 P001	+ Telescope HTTH332 CCU B	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH333	21T333 J001	+ Telescope HTTH333 CCU A	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH333	21T333 P001	+ Telescope HTTH333 CCU A	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH334	21T334 J001	+ Telescope HTTH334 CCU B	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH334	21T334 P001	+ Telescope HTTH334 CCU B	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH335	21T335 J001	+ Telescope HTTH335 CCU A	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH335	21T335 P001	+ Telescope HTTH335 CCU A	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH336	21T336 J001	+ Telescope HTTH336 CCU B	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH336	21T336 P001	+ Telescope HTTH336 CCU B	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH337	21T337 J001	+ Telescope HTTH337 CCU A	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH337	21T337 P001	+ Telescope HTTH337 CCU A	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH338	21T338 J001	+ Telescope HTTH338 CCU B	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH338	21T338 P001	+ Telescope HTTH338 CCU B	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH339	21T339 J001	+ Telescope HTTH339 CCU A	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH339	21T339 P001	+ Telescope HTTH339 CCU A	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH340	21T340 J001	+ Telescope HTTH340 CCU B	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH340	21T340 P001	+ Telescope HTTH340 CCU B	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH341	21T341 J001	+ Telescope HTTH341 CCU A	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH341	21T341 P001	+ Telescope HTTH341 CCU A	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
HTTH342	21T342 J001	+ Telescope HTTH342 CCU B	NDDM15SN-BN460-A	H/N	NVA	1P
HTTH342	21T342 P001	+ Telescope HTTH342 CCU B	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P
1stShT421	21T421 J001	+ 1stShldlow-T421-Pt1000	NDDM15SN-BN460-A	H/N	NVA	1P
1stShT421	21T421 P001	+ 1stShldlow-T421-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	NVA	1P

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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
1stShT422	21T422 J001	+ 1stShldcyl-T422-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
1stShT422	21T422 P001	+ 1stShldcyl-T422-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
T4231stSh	21T423 J001	+ T423 1st Shd upper cone Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
T4231stSh	21T423 P001	+ T423 1st Shd upper cone Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
T4241stSh	21T424 J001	+ T424 1st Shd upper cone Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
T4241stSh	21T424 P001	+ T424 1st Shd upper cone Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
1stShT441	21T441 J001	+ 2ndShldlow-T441-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
1stShT441	21T441 P001	+ 2ndShldlow-T441-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
2ndShT442	21T442 J001	+ 2ndShldcyl-T442-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
2ndShT442	21T442 P001	+ 2ndShldcyl-T442-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
T4432ndSh	21T443 J001	+ T443 2nd Shd upper cone Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
T4432ndSh	21T443 P001	+ T443 2nd Shd upper cone Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
T4442ndSh	21T444 J001	+ T444 2nd Shd upper cone Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
T4442ndSh	21T444 P001	+ T444 2nd Shd upper cone Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
3rdShT461	21T461 J001	+ 3rdShldlow-T461-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
3rdShT461	21T461 P001	+ 3rdShldlow-T461-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
3rdShT462	21T462 J001	+ 3rdShldcyl-T462-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
3rdShT462	21T462 P001	+ 3rdShldcyl-T462-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
T4633rddSh	21T463 J001	+ T463 3rd Shd upper cone Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
T4633rddSh	21T463 P001	+ T463 3rd Shd upper cone Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
T4643rddSh	21T464 J001	+ T464 3rd Shd upper cone Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
T4643rddSh	21T464 P001	+ T464 3rd Shd upper cone Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
ExVentT501	21T501 J001	+ ExtVentl-T501-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
ExVentT501	21T501 P001	+ ExtVentl-T501-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
ExVentT502	21T502 J001	+ Ventline Unit T502 Connector	NDDM15SN-BN460-A	lrm	N/A	1P
ExVentT502	21T502 P001	+ Ventline Unit T502 Connector	MRN-4194-15P (NDDM-Pin)	H/N	TBD	1P
ExVentT504	21T504 J001	+ ExtVentl-T504-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
ExVentT504	21T504 P001	+ ExtVentl-T504-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
ExVentT505	21T505 J001	+ ExtVentl-T505-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
ExVentT505	21T505 P001	+ ExtVentl-T505-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
ExVentT506	21T506 J001	+ ExtVentl-T506-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
ExVentT506	21T506 P001	+ ExtVentl-T506-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
ExVentT507	21T507 J001	+ Ventline Unit T507 Connector	NDDM15SN-BN460-A	lrm	N/A	1P
ExVentT507	21T507 P001	+ Ventline Unit T507 Connector	MRN-4194-15P (NDDM-Pin)	H/N	TBD	1P
CovInT601	21T601 J001	+ Cover Inside Therm. T601	NDDM15SN-BN460-A	lrm	N/A	1P
CovInT601	21T601 P001	+ Cover Inside Therm. T601	MRN-4194-15P (NDDM-Pin)	H/N	TBD	1P
CovInT602	21T602 J001	+ Cover Inside Therm. T602	NDDM15SN-BN460-A	lrm	N/A	1P
CovInT602	21T602 P001	+ Cover Inside Therm. T602	MRN-4194-15P (NDDM-Pin)	H/N	TBD	1P
CovTP651	21T651 J001	+ Cavity-T651-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CovTP651	21T651 P001	+ Cavity-T651-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CovTC652	21T652 J001	+ Cavity-T652-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CovTC652	21T652 P001	+ Cavity-T652-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
HOTT701	21T701 J001	+ HOT-T701-Pt1000	NDDM15SN-BN460-A	Box	N/A	1P
HOTT701	21T701 P001	+ HOT-T701-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
HOTT702	21T702 J001	+ HOT-T702-C100	NDDM15SN-BN460-A	Box	N/A	1P
HOTT702	21T702 P001	+ HOT-T702-C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
HOTT703	21T703 J001	+ HOT-T703-C100	NDDM15SN-BN460-A	Box	N/A	1P
HOTT703	21T703 P001	+ HOT-T703-C100	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
HOTT704	21T704 J001	+ HOT-T704-Pt1000	NDDM15SN-BN460-A	Box	N/A	1P
HOTT704	21T704 P001	+ HOT-T704-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
LChT801	21T801 J001	+ Low Chain SensT801 flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
LChT801	21T801 P001	+ Low Chain SensT801 flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
LChT802	21T802 J001	+ Low Chain SensT802 flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
LChT802	21T802 P001	+ Low Chain SensT802 flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
LChT803	21T803 J001	+ Low Chain SensT803 flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
LChT803	21T803 P001	+ Low Chain SensT803 flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
LChT804	21T804 J001	+ Low Chain Sens T806 flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
LChT804	21T804 P001	+ Low Chain Sens T806 flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
LChT805	21T805 J001	+ Low Chain SensT805 flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
LChT805	21T805 P001	+ Low Chain SensT805 flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P

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LChT806	21T806 J001	+ Low Chain SensT804 flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
LChT806	21T806 P001	+ Low Chain SensT804 flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
UChT851	21T851 J001	+ T853 UpperChain Sens flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
UChT851	21T851 P001	+ T853 UpperChain Sens flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
UChT852	21T852 J001	+ T852 UpperChain Sens flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
UChT852	21T852 P001	+ T852 UpperChain Sens flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
UChT853	21T853 J001	+ T851 UpperChain Sens flying lead	NDDM15SN-BN460-A	DSS	N/A	1P
UChT853	21T853 P001	+ T851 UpperChain Sens flying lead	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
USFT861	21T861 J001	+ T861 Upper SpatFwSens	NDDM15SN-BN460-A	H/N	N/A	1P
USFT861	21T861 P001	+ T861 Upper SpatFwSens	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
TS-CB	21T862 J001	+ T862 Upper SpatFwSens	NDDM15SN-BN460-A	lrm	N/A	1P
TS-CB	21T862 P001	+ T862 Upper SpatFwSens	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT901	21T901 J001	+ CVVouts-T901-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT901	21T901 P001	+ CVVouts-T901-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT902	21T902 J001	+ CVVouts-T902-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT902	21T902 P001	+ CVVouts-T902-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT903	21T903 J001	+ CVVouts-T903-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT903	21T903 P001	+ CVVouts-T903-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT904	21T904 J001	+ CVVouts-T904-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT904	21T904 P001	+ CVVouts-T904-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT905	21T905 J001	+ CVVouts-T905-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT905	21T905 P001	+ CVVouts-T905-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT906	21T906 J001	+ CVVouts-T906-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT906	21T906 P001	+ CVVouts-T906-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT907	21T907 J001	+ CVVouts-T907-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT907	21T907 P001	+ CVVouts-T907-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT908	21T908 J001	+ CVVouts-T908-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT908	21T908 P001	+ CVVouts-T908-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT909	21T909 J001	+ CVVouts-T909-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT909	21T909 P001	+ CVVouts-T909-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT910	21T910 J001	+ CVVouts-T910-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT910	21T910 P001	+ CVVouts-T910-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT911	21T911 J001	+ CVVouts-T911-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT911	21T911 P001	+ CVVouts-T911-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT912	21T912 J001	+ CVVouts-T912-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT912	21T912 P001	+ CVVouts-T912-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT921	21T921 J001	+ CVVoutsBOLABB-T921-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT921	21T921 P001	+ CVVoutsBOLABB-T921-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT922	21T922 J001	+ CVVoutsBOLABB-T922-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT922	21T922 P001	+ CVVoutsBOLABB-T922-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT931	21T931 J001	+ CVVoutsLOUBB-T931-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT931	21T931 P001	+ CVVoutsLOUBB-T931-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT932	21T932 J001	+ CVVoutsLOURad-T932-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT932	21T932 P001	+ CVVoutsLOURad-T932-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT933	21T933 J001	+ CVVoutsLOURad-T933-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT933	21T933 P001	+ CVVoutsLOURad-T933-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT934	21T934 J001	+ CVVoutsLOUWaveGd-T934-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT934	21T934 P001	+ CVVoutsLOUWaveGd-T934-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
CVVT935	21T935 J001	+ CVVoutsLOUWaveGd-T935-Pt1000	NDDM15SN-BN460-A	H/N	N/A	1P
CVVT935	21T935 P001	+ CVVoutsLOUWaveGd-T935-Pt1000	MRN-4194-15P (NDDM-Pin)	H/N	N/A	1P
HTTV102	21V102 J001	+ HTT-elValve-V102	MWDM2L-15S-6C3-.630	Box	N/A	1P
HTTV102	21V102 P001	+ HTT-elValve-V102	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HTTV103	21V103 J001	HTT-elValve-V103	MWDM2L-15S-6C3-.630	Box	N/A	1P
HTTV103	21V103 P001	HTT-elValve-V103	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HTTV104	21V104 J001	HTT-elValve-V104	MWDM2L-15S-6C3-.630	Box	N/A	1P
HTTV104	21V104 P001	HTT-elValve-V104	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HTTV105	21V105 J001	HTT-elValve-V105	MWDM2L-15S-6C3-.630	Box	N/A	1P
HTTV105	21V105 P001	HTT-elValve-V105	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HTTV106	21V106 J001	HTT-elValve-V106	MWDM2L-15S-6C3-.630	Box	N/A	1P
HTTV106	21V106 P001	HTT-elValve-V106	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P



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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
ExVentV501	21V501 J001	+ ExtVentline-elValve-V501	MWDM2L-15S-6C3-.630	Box	NVA	1P
ExVentV501	21V501 P001	+ ExtVentline-elValve-V501	MWDM2L-15P-6C3-.630	H/N	LBS15P_12F	1P
ExVentV503	21V503 J001	+ ExtVentline-elValve-V503	MWDM2L-15S-6C3-.630	Box	NVA	1P
ExVentV503	21V503 P001	+ ExtVentline-elValve-V503	MWDM2L-15P-6C3-.630	H/N	LBS15P_12F	1P
ExVentV504	21V504 J001	+ ExtVentline-elValve-V504	MWDM2L-15S-6C3-.630	Box	NVA	1P
ExVentV504	21V504 P001	+ ExtVentline-elValve-V504	MWDM2L-15P-6C3-.630	H/N	LBS15P_12F	1P
ExVentV505	21V505 J001	+ ExtVentline-elValve-V505	MWDM2L-15S-6C3-.630	Box	NVA	1P
ExVentV505	21V505 P001	+ ExtVentline-elValve-V505	MWDM2L-15P-6C3-.630	H/N	LBS15P_12F	1P
HOTV701	21V701 J001	HOT-elValve-V701	MWDM2L-15S-6C3-.630	Box	NVA	1P
HOTV701	21V701 P001	HOT-elValve-V701	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HOTV702	21V702 J001	HOT-elValve-V702	MWDM2L-15S-6C3-.630	Box	NVA	1P
HOTV702	21V702 P001	HOT-elValve-V702	MWDM2L-15P-6C3-.630	H/N	BS-SS-17B-01	1P
HTSSCB	223100 J001	Heater Power Supply M1 and M2 Nom	MS27497T14F18SN	Itm	NVA	1P
HTSSCB	223100 J002	Heater Power Supply M1 and M2 Red	MS27497T14F18SA	Itm	NVA	1P
HTSSCB	223100 J003	Thermistors M1 and M2 Nom	MS27497T12F35PN	Itm	NVA	1P
HTSSCB	223100 J004	Thermistors M1 and M2 Red	MS27497T12F35PA	Itm	NVA	1P
HTSSCB	223100 P001	Heater Power Supply M1 and M2 Nom	MS27484T14F18PN	Itm	TBD	1P
HTSSCB	223100 P002	Heater Power Supply M1 and M2 Red	MS27484T14F18PA	Itm	TBD	1P
HTSSCB	223100 P003	Thermistors M1 and M2 Nom	MS27484T12F35SN	Itm	TBD	1P
HTSSCB	223100 P004	Thermistors M1 and M2 Red	MS27484T12F35SA	Itm	TBD	1P
HSS CB	231230 J001	Sunshade Connector Bracket CCU A	MWDM2L-25S-6C3-.630	H/N	TBD	1P
HSS CB	231230 J002	Sunshade Connector Bracket CCU B	MWDM2L-25S-6C3-.630	H/N	TBD	1P
HSS CB	231230 P001	Sunshade Connector Bracket CCU A	MWDM2L-25P-6C3-.630	H/N	TBD	1P
HSS CB	231230 P002	Sunshade Connector Bracket CCU B	MWDM2L-25P-6C3-.630	H/N	TBD	1P
HHSVMCB1	311100 J001	HIFI SVM SIH-XH-02	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1H
HHSVMCB1	311100 J002	HIFI SVM SIH-XH-05	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1H
HHSVMCB1	311100 J003	HIFI SVM SIH-XH-01	SCC340104401B032235PN	H/N	440 FS 110 M 22 03	1H
HHSVMCB1	311100 J004	HIFI SVM SIH-XH-03	SCC340104401B032235PN	H/N	440 FS 110 M 22 03	1H
HHSVMCB1	311100 J005	HIFI SVM SIH-XH-04	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1H
HHSVMCB1	311100 P001	HIFI SVM SIH-XH-02	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 04	1H
HHSVMCB1	311100 P002	HIFI SVM SIH-XH-05	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 04	1H
HHSVMCB1	311100 P003	HIFI SVM SIH-XH-01	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 04	1H
HHSVMCB1	311100 P004	HIFI SVM SIH-XH-03	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 04	1H
HHSVMCB1	311100 P005	HIFI SVM SIH-XH-04	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 04	1H
HHSVMCB2	311200 J002	Spare H. :10xTP2S038, 1x-B038, 1x-B030	Not known Pin	-	TBD	1P
HHSVMCB2	311200 J006	HIFI SVM SIH-XH-08	SCC340104401B032435PN	H/N	440 FS 110 M 24 33	1H
HHSVMCB2	311200 J007	HIFI SVM SIH-XH-09	SCC340104401B032435PN	H/N	440 FS 110 M 24 33	1H
HHSVMCB2	311200 J008	HIFI SVM HIFI LOU SIH-XH-12	SCC340104401B032435PN	H/N	440 FS 110 M 24 33	1H
HHSVMCB2	311200 P002	Spare H. :10xTP2S038, 1x-B038, 1x-B030	Not known Socket	-	NVA	1P
HHSVMCB2	311200 P006	HIFI SVM SIH-XH-08	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1H
HHSVMCB2	311200 P007	HIFI SVM SIH-XH-09	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1H
HHSVMCB2	311200 P008	HIFI SVM HIFI LOU SIH-XH-12	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1H
HHSVMCB3	311300 J001	HIFI SVM SIH-XH-11	SCC340104401B032435PN	H/N	440 FS 110 M 24 33	1H
HHSVMCB3	311300 J003	HIFI SVM SIH-XH-07	SCC340104401B032435PN	H/N	440 FS 110 M 24 33	1H
HHSVMCB3	311300 J004	HIFI SVM SIH-XH-10	SCC340104401B032435PN	H/N	440 FS 110 M 24 33	1H
HHSVMCB3	311300 J005	HIFI SVM SIH-XH-06	SCC340104401B032435PN	H/N	440 FS 110 M 24 33	1H
HHSVMCB3	311300 J007	HIFI SVM CB3 Coax SIH-XH-21	Coax Male ( 50Ohm)	H/N	TBD	1H
HHSVMCB3	311300 J008	HIFI SVM CB3 Coax SIH-XH-22	Coax Male ( 50Ohm)	H/N	TBD	1H
HHSVMCB3	311300 J009	HIFI SVM CB3 Coax SIH-XH-23	Coax Male ( 50Ohm)	H/N	TBD	1H
HHSVMCB3	311300 J010	HIFI SVM CB3 Coax SIH-XH-24	Coax Male ( 50Ohm)	H/N	TBD	1H
HHSVMCB3	311300 P001	HIFI SVM SIH-XH-11	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1H
HHSVMCB3	311300 P003	HIFI SVM SIH-XH-07	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1H
HHSVMCB3	311300 P004	HIFI SVM SIH-XH-10	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1H
HHSVMCB3	311300 P005	HIFI SVM SIH-XH-06	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1H
HHSVMCB3	311300 P007	HIFI SVM CB3 Coax SIH-XH-21	Coax Female (50 Ohm)	H/N	TBD	1H
HHSVMCB3	311300 P008	HIFI SVM CB3 Coax SIH-XH-22	Coax Female (50 Ohm)	H/N	TBD	1H
HHSVMCB3	311300 P009	HIFI SVM CB3 Coax SIH-XH-23	Coax Female (50 Ohm)	H/N	TBD	1H
HHSVMCB3	311300 P010	HIFI SVM CB3 Coax SIH-XH-24	Coax Female (50 Ohm)	H/N	TBD	1H

# Connector Reference List

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HSSVMCB1	312100 J002	SPIRE SVM CB1 (SPIRE Bundle 05)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB1	312100 J003	SPIRE SVM CB1 (SPIRE Bundle 04)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB1	312100 J004	SPIRE SVM CB1 (SPIRE Bundle 03)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB1	312100 J01A	Spire Bundle 02/04 Link A	DEMA-09P-NMB-FO	H/N	NVA	1P
HSSVMCB1	312100 J01B	Spire Bundle 02/04 Link B	SCC340100201BDEMA09SNM	H/N	NVA	1P
HSSVMCB1	312100 P002	SPIRE SVM CB1 (SPIRE Bundle 05)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB1	312100 P003	SPIRE SVM CB1 (SPIRE Bundle 04)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB1	312100 P004	SPIRE SVM CB1 (SPIRE Bundle 03)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB1	312100 P01A	Spire Bundle 02/04 Link A	SCC340100201BDEMA09SNM	H/N	507 T 196 M 9	1P
HSSVMCB1	312100 P01B	Spire Bundle 02/04 Link B	DEMA-09P-NMB-FO	H/N	507 T 196 M 9	1P
HSSVMCB2	312200 J001	SPIRE SVM CB2 (SPIRE Bundle 08)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB2	312200 J002	SPIRE SVM CB2 (SPIRE Bundle 09)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB2	312200 J003	SPIRE SVM CB2 (SPIRE Bundle 06)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB2	312200 J004	SPIRE SVM CB2 (SPIRE Bundle 07)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB2	312200 J005	SPIRE SVM CB2 (SPIRE Bundle 02)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB2	312200 J006	SPIRE SVM CB2 (SPIRE Bundle 01)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB2	312200 P001	SPIRE SVM CB2 (SPIRE Bundle 08)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB2	312200 P002	SPIRE SVM CB2 (SPIRE Bundle 09)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB2	312200 P003	SPIRE SVM CB2 (SPIRE Bundle 06)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB2	312200 P004	SPIRE SVM CB2 (SPIRE Bundle 07)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB2	312200 P005	SPIRE SVM CB2 (SPIRE Bundle 02)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB2	312200 P006	SPIRE SVM CB2 (SPIRE Bundle 01)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB3	312300 J001	+ Launch Latch I/F A	MS27497T10F35PA (Junc)	H/N	NVA	1P
HSSVMCB3	312300 J002	+ Launch Latch I/F B	MS27497T10F35PA (Junc)	H/N	NVA	1P
HSSVMCB3	312300 J003	SPIRE SVM CB3 (SPIRE Bundle 13)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB3	312300 J004	SPIRE SVM CB3 (SPIRE Bundle 11)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HSSVMCB3	312300 J005	SPIRE SVM CB3 (SPIRE Bundle 12)	SCC340104401B032435PN	H/N	440 FS 110 M 24 32	1P
HSSVMCB3	312300 J006	SPIRE SVM CB3 (SPIRE Bundle 10)	SCC340104401B032435PN	H/N	440 FS 110 M 24 32	1P
HSSVMCB3	312300 P001	+ Launch Latch I/F A	MS27484T10F35S (Plug)	H/N	TBD	1P
HSSVMCB3	312300 P002	+ Launch Latch I/F B	MS27484T10F35S (Plug)	H/N	TBD	1P
HSSVMCB3	312300 P003	SPIRE SVM CB3 (SPIRE Bundle 13)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB3	312300 P004	SPIRE SVM CB3 (SPIRE Bundle 11)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 05	1P
HSSVMCB3	312300 P005	SPIRE SVM CB3 (SPIRE Bundle 12)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1P
HSSVMCB3	312300 P006	SPIRE SVM CB3 (SPIRE Bundle 10)	SCC340104401B06G2435SN	H/N	380 FS 007 M24 04	1P
HPSVMCB1	313100 J001	SIH-XP-04 (16A;16B;61-74;10-12)	SCC340104401B032235PN	H/N	440 FS 110 M 22 03	1P
HPSVMCB1	313100 J002	SIH-XP-03 (7-9;15a;15b;46-60;76)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HPSVMCB1	313100 J004	SIH-XP-14 (82-86;92-96;120-122;105-112)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HPSVMCB1	313100 J005	SIH-XP-15 (117-117;123;97-99;100-104)	SCC340104401B032235PN	H/N	440 FS 110 M 22 03	1P
HPSVMCB1	313100 J006	SIH-XP-13 (77-81;87-91;113-115;116/a;124)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HPSVMCB1	313100 J007	SIH-XP-02 (14a;14b;32-45;4-6)	SCC340104401B032235PN	H/N	440 FS 110 M 22 03	1P
HPSVMCB1	313100 J008	SIH-XP-01 (1-3;13a;17-23;13b;24-31;75)	SCC340104401B032435PN	H/N	440 FS 110 M 24 03	1P
HPSVMCB1	313100 P001	SIH-XP-04 (16A;16B;61-74;10-12)	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 05	1P
HPSVMCB1	313100 P002	SIH-XP-03 (7-9;15a;15b;46-60;76)	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 05	1P
HPSVMCB1	313100 P004	SIH-XP-14 (82-86;92-96;120-122;105-112)	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 06	1P
HPSVMCB1	313100 P005	SIH-XP-15 (117-117;123;97-99;100-104)	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 05	1P
HPSVMCB1	313100 P006	SIH-XP-13 (77-81;87-91;113-115;116/a;124)	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 06	1P
HPSVMCB1	313100 P007	SIH-XP-02 (14a;14b;32-45;4-6)	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 05	1P
HPSVMCB1	313100 P008	SIH-XP-01 (1-3;13a;17-23;13b;24-31;75)	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 06	1P

<b>Astrium GmbH</b>		<b>Connector Reference List</b>	Doc. No. : HP-2-ASED-IC-0001	
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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
HPSVMCB2	313200 J001	SIH-XP-09 (621b/c;622/b;622/b;623;624)	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
HPSVMCB2	313200 J002	SIH-XP-08 (616b/c;617b/c;618/b;619;620)	SCC340104401B032435PN	H/N	440 FS 110 M 24 32	1P
HPSVMCB2	313200 J003	SIH-XP-10 (625b/c;626/b;627-628)	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
HPSVMCB2	313200 J004	SIH-XP-05 (601b/c;602b/c;603/b;604-605)	SCC340104401B032435PN	H/N	440 FS 110 M 24 32	1P
HPSVMCB2	313200 J005	SIH-XP-11 (629-634;641-644)	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
HPSVMCB2	313200 J006	SIH-XP-06 (606b/c;067b/c;608/b;609;610)	SCC340104401B032435PN	H/N	440 FS 110 M 24 32	1P
HPSVMCB2	313200 J007	SIH-XP-12 (635-640;645-648)	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
HPSVMCB2	313200 J008	SIH-XP-07 ( 611b/c;612b/c;613/b;614-615)	SCC340104401B032435PN	H/N	440 FS 110 M 24 32	1P
HPSVMCB2	313200 P001	SIH-XP-09 (621b/c;622/b;622/b;623;624)	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 05	1P
HPSVMCB2	313200 P002	SIH-XP-08 (616b/c;617b/c;618/b;619;620)	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 05	1P
HPSVMCB2	313200 P003	SIH-XP-10 (625b/c;626/b;627-628)	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 05	1P
HPSVMCB2	313200 P004	SIH-XP-05 (601b/c;602b/c;603/b;604-605)	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 05	1P
HPSVMCB2	313200 P005	SIH-XP-11 (629-634;641-644)	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 05	1P
HPSVMCB2	313200 P006	SIH-XP-06 (606b/c;067b/c;608/b;609;610)	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 05	1P
HPSVMCB2	313200 P007	SIH-XP-12 (635-640;645-648)	SCC340104401B06G2235SN	H/N	380 FS 007 M 22 05	1P
HPSVMCB2	313200 P008	SIH-XP-07 ( 611b/c;612b/c;613/b;614-615)	SCC340104401B06G2435SN	H/N	380 FS 007 M 24 05	1P
TSCSVMCB	314000 J001	Telescope CB Heaters Pwr Main	MS27497T14F18SN	H/N	TBD	1P
TSCSVMCB	314000 J002	Telescope CB Heaters Pwr Red	MS27497T14F18SA	H/N	TBD	1P
TSCSVMCB	314000 J003	Telescope CB Sensors Main	MS27484T12F35SN	H/N	TBD	1P
TSCSVMCB	314000 J004	Telescope CB Sensors Red	MS27484T12F35SA	H/N	TBD	1P
TSCSVMCB	314000 J005	Telescope CB NCA PWR Main	DAMA-15S-NMB-FO	H/N	TBD	1P
TSCSVMCB	314000 J006	Telescope CB NCA PWR Red	DAMA-15S-NMB-FO	H/N	TBD	1P
TSCSVMCB	314000 J007	Telescope CB NCA Sensors Main	DBMA-25S-NMB-FO	H/N	TBD	1P
TSCSVMCB	314000 J008	Telescope CB NCA Sensors Red	DBMA-25S-NMB-FO	H/N	TBD	1P
TSCSVMCB	314000 P001	Telescope CB Heaters Pwr Main	MS27484T14F18PN	H/N	TBD	1P
TSCSVMCB	314000 P002	Telescope CB Heaters Pwr Red	MS27484T14F18PA	H/N	TBD	1P
TSCSVMCB	314000 P003	Telescope CB Sensors Main	MS27497T12F35PN	H/N	TBD	1P
TSCSVMCB	314000 P004	Telescope CB Sensors Red	MS27497T12F35PA	H/N	TBD	1P
TSCSVMCB	314000 P005	Telescope CB NCA PWR Main	DAMA-15P-NMB-FO	H/N	TBD	1P
TSCSVMCB	314000 P006	Telescope CB NCA PWR Red	DAMA-15P-NMB-FO	H/N	TBD	1P
TSCSVMCB	314000 P007	Telescope CB NCA Sensors Main	DBMA-25P-NMB-FO	H/N	TBD	1P
TSCSVMCB	314000 P008	Telescope CB NCA Sensors Red	DBMA-25P-NMB-FO	H/N	TBD	1P
TSCSVMCB	314100 J001	Telesc SVM CB Sensors to SVM	SCC340100201BDEMA9SNMB	H/N	TBD	1P
TSCSVMCB	314100 J002	Telesc SVM CB Sensors to SVM	SCC340100201BDEMA9SNMB	H/N	TBD	1P
TSCSVMCB	314100 J003	Telesc SVM CB Sensors to SVM	SCC340100201BDEMA9PNMB	H/N	TBD	1P
TSCSVMCB	314100 J004	Telesc SVM CB Sensors to SVM	MS27497T14F35PB	H/N	TBD	1P
TSCSVMCB	314100 P001	Telesc SVM CB Sensors to SVM	SCC340100201BDEMA9PNMB	H/N	TBD	1P
TSCSVMCB	314100 P002	Telesc SVM CB Sensors to SVM	SCC340100201BDEMA9PNMB	H/N	TBD	1P
TSCSVMCB	314100 P003	Telesc SVM CB Sensors to SVM	SCC340100201BDEMA9SNMB	H/N	TBD	1P
TSCSVMCB	314100 P004	Telesc SVM CB Sensors to SVM	MS27497T14F35SB	H/N	TBD	1P
CCSVMCB	314200 J001	Telesc SVM CB Sensors to SVM	MS27497T14F35PA	H/N	TBD	1P
CCSVMCB	314200 J002	Telesc SVM CB Sensors to SVM	MS27497T14F35PB	H/N	TBD	1P
CCSVMCB	314200 J003	Telesc SVM CB Sensors to SVM	SCC3401-04401B03-14-18SA	H/N	TBD	1P
CCSVMCB	314200 J004	Telesc SVM CB Sensors to SVM	SCC3401-04401B03-14-18SB	H/N	TBD	1P
CCSVMCB	314200 J005	Telesc SVM CB Sensors to SVM	SCC3401-04401B03-10-35PA	H/N	TBD	1P
CCSVMCB	314200 J006	Telesc SVM CB Sensors to SVM	MS27497T14F35PB	H/N	TBD	1P
CCSVMCB	314200 P001	Telesc SVM CB Sensors to SVM	MS27484T14F35SA	H/N	TBD	1P
CCSVMCB	314200 P002	Telesc SVM CB Sensors to SVM	MS27497T14F35SB	H/N	TBD	1P
CCSVMCB	314200 P003	Telesc SVM CB Sensors to SVM	SCC3401-04401B06G-14-18PA	H/N	TBD	1P
CCSVMCB	314200 P004	Telesc SVM CB Sensors to SVM	SCC3401-04401B06G-14-18PB	H/N	TBD	1P
CCSVMCB	314200 P005	Telesc SVM CB Sensors to SVM	SCC3401-04401B06G-10-35SA	H/N	TBD	1P
CCSVMCB	314200 P006	Telesc SVM CB Sensors to SVM	MS27497T14F35SB	H/N	TBD	1P
TSCSVMCB	314300 J001	Telescope Heater from PCDU A	MS27497T14F35SA	H/N	TBD	1P
TSCSVMCB	314300 J002	Telescope Heater from PCDU B	MS27497T14F35SB	H/N	TBD	1P
TSCSVMCB	314300 P001	Telescope Heater from PCDU A	MS27484T14F35PA	H/N	TBD	1P
TSCSVMCB	314300 P002	Telescope Heater from PCDU B	MS27484T14F35PB	H/N	TBD	1P

<b>Astrium GmbH</b>		<b>Connector Reference List</b>	Doc. No. : HP-2-ASED-IC-0001	
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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
SVM EGSE	315100 J001	SVM CB CCH V03 from CVVUCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
SVM EGSE	315100 J002	SVM CB CCH V04 from CVVUCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
SVM EGSE	315100 J003	SVM CB CCH V21 from CVVLCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
SVM EGSE	315100 J004	SVM CB CCH Acc from HTT, HOT	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
SVM EGSE	315100 J005	SVM CB from Telesc to CCU A	SCC340104401B032235PN	H/N	TBD	1P
SVM EGSE	315100 J006	SVM CB from Telesc to CCU B	SCC340104401B032235PN	H/N	TBD	1P
SVM EGSE	315100 J007	SVM CB CCH V41 from CVVLCR	SCC340104401B032235PN	H/N	TBD	1P
SVM EGSE	315100 J008	SVM CB CCH V42 from CVVLCR	SCC340104401B032235PN	H/N	TBD	1P
SVM EGSE	315100 P001	SVM CB CCH V03 from CVVUCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
SVM EGSE	315100 P002	SVM CB CCH V04 from CVVUCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
SVM EGSE	315100 P003	SVM CB CCH V21 from CVVLCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
SVM EGSE	315100 P004	SVM CB CCH Acc from HTT, HOT	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
SVM EGSE	315100 P005	SVM CB from Telesc to CCU A	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
SVM EGSE	315100 P006	SVM CB from Telesc to CCU B	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
SVM EGSE	315100 P007	SVM CB CCH V41 from CVVLCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
SVM EGSE	315100 P008	SVM CB CCH V42 from CVVLCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU EV CB	316100 J001	CCU A ext. Ventline Valves	MS27497T12F35PA	H/N	TBD	1P
CCU EV CB	316100 J002	CCU B ext. Ventline Valves	MS27497T12F35PB	H/N	TBD	1P
CCU EV CB	316100 P001	CCU A ext. Ventline Valves	MS27484T12F35SA	H/N	TBD	1P
CCU EV CB	316100 P002	CCU B ext. Ventline Valves	MS27484T12F35SB	H/N	TBD	1P
EGSE CB	321100 J001	SVM CCH CB1	SCC340104401B032235PN	-	440 FS 110 M 22 32	1P
EGSE CB	321100 J002	SVM CCH CB1	SCC340104401B032235PN	-	440 FS 110 M 22 32	1P
EGSE CB	321100 J003	SVM CCH CB1 ExtVentHtr 502/503 to EGSE	MS27497T12F35PN	H/N	TBD	1P
EGSE CB	321100 J005	SVM CCH ICE 13 to EGSE/Umbil	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
EGSE CB	321100 J006	SVM CCH CB1 104,106,702,L101 to EGSE	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
EGSE CB	321100 J007	SVM CB CVV CCU B Pwr Vent	MS27497T12F35PA	H/N	TBD	1P
EGSE CB	321100 J008	SVM CCH CB1 P501 T502 to EGSE	MS27497T12F35PB	H/N	TBD	1P
EGSE CB	321100 P001	SVM CCH CB1	SCC340104401B06G2235SN	-	N/A	1P
EGSE CB	321100 P002	SVM CCH CB1	SCC340104401B06G2235SN	-	N/A	1P
EGSE CB	321100 P003	SVM CCH CB1 ExtVentHtr 502/503 to EGSE	MS27484T12F35SN	H/N	TBD	1P
EGSE CB	321100 P005	SVM CCH ICE 13 to EGSE/Umbil	MS27484T22F35SN	H/N	TBD	1P
EGSE CB	321100 P006	SVM CCH CB1 104,106,702,L101 to EGSE	MS27484T22F35SN	H/N	TBD	1P
EGSE CB	321100 P007	SVM CB CVV CCU B Pwr Vent	MS27484T12F35SA	H/N	TBD	1P
EGSE CB	321100 P008	SVM CCH CB1 P501 T502 to EGSE	MS27484T12F35SB	H/N	TBD	1P
CCU A CB	321200 J001	SVM CB CCH V01 from CVVUCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
CCU A CB	321200 J002	SVM CB CCH V21 from CVVLCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
CCU A CB	321200 J003	SVM CB CCH V24 from CVVLCR	SCC340104401B032235PN	H/N	TBD	1P
CCU A CB	321200 J004	SVM CB CCH V24 from CVVLCR	SCC340104401B032235PN	H/N	TBD	1P
CCU A CB	321200 J005	SVM CB CCH V24 from CVVLCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
CCU A CB	321200 P001	SVM CB CCH V01 from CVVUCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU A CB	321200 P002	SVM CB CCH V21 from CVVLCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU A CB	321200 P003	SVM CB CCH V24 from CVVLCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU A CB	321200 P004	SVM CB CCH V24 from CVVLCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU A CB	321200 P005	SVM CB CCH V24 from CVVLCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU B CB	321300 J001	SVM CB CCH V02 from CVVUCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
CCU B CB	321300 J002	SVM CB CCH V22 from CVVUCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
CCU B CB	321300 J003	SVM CB CCH V23 from CVVUCR	SCC340104401B032235PN	H/N	TBD	1P
CCU B CB	321300 J004	SVM CB CCH V22 from CVVUCR	SCC340104401B032235PN	H/N	TBD	1P
CCU B CB	321300 J005	SVM CB CCH V22 from CVVUCR	SCC340104401B032235PN	H/N	440 FS 110 M 22 32	1P
CCU B CB	321300 P001	SVM CB CCH V02 from CVVUCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU B CB	321300 P002	SVM CB CCH V22 from CVVUCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU B CB	321300 P003	SVM CB CCH V23 from CVVUCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU B CB	321300 P004	SVM CB CCH V22 from CVVUCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
CCU B CB	321300 P005	SVM CB CCH V22 from CVVUCR	MS27484T22F-35S (Pl+Shl)	H/N	TBD	1P
UMB-CB	321400 J001	SVM Umbilical I/F CB	SCC340100201BDAMA15SNM	H/N	DW214-15-2-6-000	1P
UMB-CB	321400 J002	SVM Umbilical I/F CB	SCC340100201BDAMA15SNM	H/N	DW214-15-2-6-000	1P
UMB-CB	321400 P001	SVM Umbilical I/F CB	SCC340100201BDAMA15PNM	H/N	DW214-15-2-6-000	1P
UMB-CB	321400 P002	SVM Umbilical I/F CB	SCC340100201BDAMA15PNM	H/N	DW214-15-2-6-000	1P

# Connector Reference List

 Project:  
HERSCHEL

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
SVMSH	331100 J001	SVM Shield Connector Bracket	MWDM2L-15S-6C3-.630	H/N	TBD	1P
SVMSH	331100 J002	SVM Shield Connector Bracket	MWDM2L-15S-6C3-.630	H/N	TBD	1P
SVMSH	331100 P001	SVM Shield Connector Bracket	MWDM2L-15P-6C3-.630	H/N	TBD	1P
SVMSH	331100 P002	SVM Shield Connector Bracket	MWDM2L-15P-6C3-.630	H/N	TBD	1P
HSC_UMBI/	390000 J001	Herschel S/C Umbilical HU1	tdb		N/A	1P
HSC_UMBI/	390000 J002	Herschel S/C Umbilical HU2	tdb		N/A	1P
HSC_UMBI/	390000 P001	Herschel S/C Umbilical HU1	tdb		TBD	1P
HSC_UMBI/	390000 P002	Herschel S/C Umbilical HU2	tdb		TBD	1P
CryoSCOE	422200 J001	+ Cryo SCOE Connector	MWDM2L-37S-6C3-.630	H/N	N/A	1P
CryoSCOE	422200 P001	+ Cryo SCOE Connector	MWDM37P w BS	lrm	TBD	1P
PFMCRSC	422210 J001	+ Tank, Ventl & Chain Therm,PTX	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J002	+ OB/USF/SPIRE2nd Shd Therm	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J003	+ Tank, Ventl/ Ch Htr/Excit/LLsen/StS/Ter	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J004	+ Tank Htr/Excit/StSw/Therm	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J005	+ Spare thermistors	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J006	+ Heater	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J007	+ OB/SPIRE/Shd/CH/USFTherm	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J008	+ OB/SPIRE/Shd Therm	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J009	+ SunSh/SVM Shd/Ventl/Cavity/CVV Therm	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J010	+ SunSh/SVM Shd/Ventl/Cavity/CVVTel Therm	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J011	+ Tank/Ventl Htr/Excit/StSw/LLsen/Term	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J012	+ Not Known	MS27497T12F98SB	lrm	N/A	1P
PFMCRSC	422210 J013	+ LV excit /StSw Spare	MS27497T12F98SA	lrm	N/A	1P
PFMCRSC	422210 J014	+ SunShd/Telescope/CVVTerm	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J015	+ Not known	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J016	+ Not known	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J017	+ Not known	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J018	+ CVSE VoltM/PTX/SVM Shd,Ventl, Ge,Ca Ther	MS27497T22-35S (Jun.Sh)	lrm	N/A	1P
PFMCRSC	422210 J019	+ Not known	MS27497T14F35SA	lrm	N/A	1P
PFMCRSC	422210 J020	+ Valve excit,Status/ CCU arm, switch	MS27497T14F35SA	lrm	N/A	1P
PFMCRSC	422210 J021	+ Not known	MS27497T14F35SA	lrm	N/A	1P
PFMCRSC	422210 J022	+ Not known	MS27497T14F35SB	lrm	N/A	1P
PFMCRSC	422210 P001	+ Tank, Ventl & Chain Therm,PTX	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P002	+ OB/USF/SPIRE2nd Shd Therm	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P003	+ Tank, Ventl/ Ch Htr/Excit/LLsen/StS/Ter	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P004	+ Tank Htr/Excit/StSw/Therm	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P005	+ Spare thermistors	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P006	+ Heater	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P007	+ OB/SPIRE/Shd/CH/USFTherm	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P008	+ OB/SPIRE/Shd Therm	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P009	+ SunSh/SVM Shd/Ventl/Cavity/CVV Therm	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P010	+ SunSh/SVM Shd/Ventl/Cavity/CVVTel Therm	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P011	+ Tank/Ventl Htr/Excit/StSw/LLsen/Term	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P012	+ Not Known	MS27484T12F-98PB (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P013	+ LV excit /StSw Spare	MS27484T12F-98PA (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P014	+ SunShd/Telescope/CVVTerm	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P015	+ Not known	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P016	+ Not known	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P017	+ Not known	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P018	+ CVSE VoltM/PTX/SVM Shd,Ventl, Ge,Ca Ther	MS27484T22F-35P (Pl+Shl)	lrm	TBD	1P
PFMCRSC	422210 P019	+ Not known	MS27484T14F35PA	lrm	TBD	1P
PFMCRSC	422210 P020	+ Valve excit,Status/ CCU arm, switch	MS27484T14F35PA	lrm	TBD	1P
PFMCRSC	422210 P021	+ Not known	MS27484T14F35PA	lrm	TBD	1P
PFMCRSC	422210 P022	+ Not known	MS27484T14F35PB	lrm	TBD	1P
ACCRO UNI	422230 J001	+ Facility Accelerometer Readout Unit	tdb		N/A	1P
ACCRO UNI	422230 P001	+ Facility Accelerometer Readout Unit	tdb		TBD	1P

Astrium GmbH

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HERSCHEL**Connector  
Reference List**

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Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
EPLM SCO	422400 J003	HERSCHEL PLM SCOE CCU LSU Pwr Nom	tbd		NVA	1P
EPLM SCO	422400 J004	HERSCHEL PLM SCOE CCU LSU Pwr Red	tbd		NVA	1P
EPLM SCO	422400 J007	H PLM SCOE HIFI SPIRE PACS LCL Nom	tbd		NVA	1P
EPLM SCO	422400 J008	H PLM SCOE HIFI SPIRE PACS LCL Red	tbd		NVA	1P
EPLM SCO	422400 J009	H PLM SCOE SPIRE FCU, HIFI HRH Pwr Nom	tbd		NVA	1P
EPLM SCO	422400 J010	H PLM SCOE SPIRE FCU, HIFI HRH Pwr Red	tbd		NVA	1P
EPLM SCO	422400 J011	H PLM SCOE NCA Actuators Nom	tbd		NVA	1P
EPLM SCO	422400 J012	H PLM SCOE NCA Actuators Red	tbd		NVA	1P
EPLM SCO	422400 P003	HERSCHEL PLM SCOE CCU LSU Pwr Nom	tbd		TBD	1P
EPLM SCO	422400 P004	HERSCHEL PLM SCOE CCU LSU Pwr Red	tbd		TBD	1P
EPLM SCO	422400 P007	H PLM SCOE HIFI SPIRE PACS LCL Nom	tbd		TBD	1P
EPLM SCO	422400 P008	H PLM SCOE HIFI SPIRE PACS LCL Red	tbd		TBD	1P
EPLM SCO	422400 P009	H PLM SCOE SPIRE FCU, HIFI HRH Pwr Nom	tbd		TBD	1P
EPLM SCO	422400 P010	H PLM SCOE SPIRE FCU, HIFI HRH Pwr Red	tbd		TBD	1P
EPLM SCO	422400 P011	H PLM SCOE NCA Actuators Nom	tbd		TBD	1P
EPLM SCO	422400 P012	H PLM SCOE NCA Actuators Red	tbd		TBD	1P
EPCVSE	423000 J001	+ Level Probe Readout 701,702	DDMA-50S-NMB-FO	Box	NVA	1P
EPCVSE	423000 P001	+ Level Probe Readout 701,702	SCC340100201BDDMA50PNM	Box	TBD	1P



**Connector  
Reference List**

Item Identifier	Connector Designation	Connector Function	Connector Type	Supplier	Back Shell	New
SVM PCDU	610100 J001	+ SVM PCDU Connector	DDMA-50S-NMB-FO	Itm	N/A	1P
SVM PCDU	610100 J002	+ SVM PCDU Connector	DDMA-50S-NMB-FO	Itm	N/A	1P
SVM PCDU	610100 P001	+ SVM PCDU Connector	SCC340100201BDDMA50PNM	H/N	TBD	1P
SVM PCDU	610100 P002	+ SVM PCDU Connector	SCC340100201BDDMA50PNM	H/N	TBD	1P
DI_DCE16	DI_C01 J001	+ Dummy Connector	>Dummy connector 20S (Ju)	N/A	N/A	1P
DI_DCE16	DI_C01 P001	+ Dummy Connector	>Dummy connector 20P (PI)	N/A	N/A	1P
D214342J01	DI_C02 J001	+ Dummy Connector	>> Dummy Connector	N/A	N/A	1P
D214342J01	DI_C02 P001	+ Dummy Connector	>> Dummy Connector	N/A	N/A	1P
DI_EGSE01	DI_E01 J001	+ Dummy Connector	>Dummy connector 20S (Ju)	-	N/A	1P
DI_EGSE01	DI_E01 P001	+ Dummy Connector	>Dummy connector 20P (PI)	-	N/A	1P
D311200J01	DI_E02 J001	+ Dummy Connector	>> Dummy Connector	N/A	N/A	1P
D311200J01	DI_E02 P001	+ Dummy Connector	>> Dummy Connector	N/A	N/A	1P



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
	Barlage Bernhard	AED11		Thörmer Klaus-Horst Dr.	OTN/AED65
	Bayer Thomas	AET52		Wagner Klaus	AOE23
	Faas Horst	AEA65	X	Wietbrock, Walter	AET12
X	Fehringer Alexander	AOE13		Wöhler Hans	AOE22
	Frey Albrecht	AED422			
	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		RAL (SPIRE)	RAL
X	Idler Siegmund	AED432		SRON (HIFI)	SRON
	Ivány von András	FAE22			
	Jahn Gerd Dr.	AOE23		<b>Subcontractors:</b>	
	Kalde Clemens	APE3		Air Liquide, Space Department	AIR
X	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
	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
X	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			