

RFD/RFW Number:

FLX-RFD-ALM-CU-0002

Issue

1.0

Spacecraft / Project	FLEX	Originator's Name	Thomas Gandy	
System / Experiment / Model	FLORIS	Signature / Date		
Sub-System	FLEX Calibration Unit	Request Type (Highlight applicable request)	Waiver (RFW)	Deviation (RFD)
Assembly	ALM-DES-225-0001	Organisation	Almatech	
Sub-Assembly	Harness	Ref. Doc. / Drwg No.	ALM-PRO-4137	
Item	-	References	-	
Serial No.	EQM, PFM			

RFW/RFD Title	Wires used in CU different from requirements
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End Items(s) Affected (Hardware, Software)				
Name	CI-Number		Model(s)	
Calibration Unit			STM	
Requirement / Interface Documents Affected				
Specification/Drawing Title	Number	Issue	Date	App. Paragraph
FLORIS Calibration Unit URD	FLX-RS-FNM-INS-0006	5	09.05.2018	5.3.4.3

Description of Deviation / Discrepancy / Non-Conformance

Requirement FLO-CU-URD-REQ-0870 says :

FLO-CU-URD-REQ-0870 Verification: R

For each cable construction used (e.g. 2 twisted pairs/ 1 shield; 4 twisted pairs/ 1 shield; etc..), the shields on cables inside the assembly have to be grounded to the back shell (or to the connector housing if there is no back shell) on side of the CU (and not routed via pins in the connectors). The shield will be the baseline grounding path between the mechanism and the IOM star point.

Note: Wires and cables shall be compliant with ESCC No. 3901/020 and ESCC 3901/022."

Parents: Design*

Based on wires and cables availability and the ones provided on procured items Almatech have different cables than the ones presented in the note of the requirement (*Note: Wires and cables shall be compliant with ESCC No. 3901/020 and ESCC 3901/022*).

Cables that will be used by Almatech are the following ones :

Wires Switch	Wires AWG26 (ESCC3901/012 Var.03)	ESCC3901/012 Var.03	Fluoropolymer insulated	-100/+200°C
Wires Harness	Wires AWG28 twisted shielded	ESCC3901/002 Var.65	polyimide insulation light version	-100/+200°C
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Other Items or Requirements (Potentially) Affected

None

Need for RFW/RFD and Rationale for Acceptance

All the cables that are and will be used are anyway ESCC cables and shielding will be grounded as per requirement.

RFD/RFD CLOSED	Name	Sign & Date	
		Approved	Rejected
Project Manager / Engineering: (Sub System)	Gianluigi Capo		
Engineering: (Almatech)	Marco Lai		
Product Assurance: (Almatech)	Thomas Gandy		
Project Manager: (Leonardo)			
Engineering: (Leonardo)			
Product Assurance: (Leonardo)			
Engineering (ESA)			
Contract Manager (ESA)			

Continuation sheet: