		APPLICATION FOR ESCC QUALIFICATION APPROVAL			Page 1
		Component Title: RF CABLE ASSEMBLY, 2.4MM CONNECTORS, LOW POWER, 50 OHMS, FLEXIBLE CABLE, DC TO 45GHZ BASED ON TYPE AXOWAVE SL34SQ Executive Member: CNES Date: 05/12/2019			Appl. No. 365
Components (including series and families) submitted for Qualification Approval					1
ESCC COMPONENT. NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3408003	1 to 3	Frequency Range DC-45 GHz Straight and swept Cable assembly for flexible Ø3.4mm cable VSWR max 1.25 Integrated of the cable is qualified up to 300Mrad Temperature range: -55/+125°C	2.4MM type	340800302010000	
Component Manufacturer AXON' CABLE S.A.		Location of Manufacturing Plant Route de Chalon 51210 Montmirail - France		ESCC Specification used for Qualification Generic: 3408 Issue: 2 Detail/s: 3408003 Issue: 1	
Qualification Report Reference and date: PV4272B (chart F4A) , 11012-QTR-A02-11-Axon Radiation, BUS-TN-A19-S47 Permanence of Marking, PV4272A Qualif Bande Q-Matingt-Unmating Date: 11/10/2019			PID used for manufacturing Qualification Lot Ref No: CNES-PID-18-Axon Issue: 1 Date: 11/10/2019		
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> (* Details not published, provided in confidential annex 2.)			Current PID Verified by CNES Name of Agency Representative Ref No: CNES-PID-18-Axon Issue: 2 Date: 8/11/2019		
Current Manufacturing facilities surveyed by: CNES 26/11/2019 (Name of Agency Responsible) (Date)					9
Report Reference Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain Audit report: AXOCOM-AUD-2019. All audit actions related to Q band cable assembly are closed					
Quality and Reliability Data Evaluation testing performed Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Report Ref. No.: PV3961A Date: 31/01/2018 Equivalent Data: Certification:			Failure analysis, DPA, NCCS available Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (supply data) Ref Nos. and purpose:		



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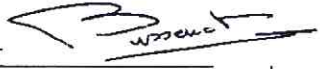
Component Title: RF CABLE ASSEMBLY, 2.4MM CONNECTORS, LOW POWER, 50 OHMS, FLEXIBLE CABLE, DC TO 45GHZ BASED ON TYPE AXOWAVE SL34SQ
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The undersigned hereby certifies on behalf of the ESCC Executive, that the above information is correct; that the appropriate documentation has been evaluated; that full compliance to all ESCC requirements is evidence except as stated in box 13; that the reports and data are available at the ESCC Executive and therefore applies for ESCC qualification status to be given to the component(s) listed herein.

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Date: 11/12/2019


JP. BUSSENOT
(Signature of the Executive Coordinator)

Continuation of Boxes above: (Only non-confidential comments)

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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

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Executive Manager Disposition

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Application Approval: Yes No

Action / Remarks:

Date:

B. Schade: Head of ESA Product Assurance and Safety Department



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ANNEX 1: LIST OF TESTS DONE TO SUPPORT QUALIFICATION

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Tests conducted in compliance with:

- ESCC 3402 generic specification; Chart IV (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

340800302010000	

Detail Specification reference:

ChartF4A	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
	Radiation	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.27	15xx	1	0	
	Permanance of Marking	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.37	1818	1	0	
	Mating / Unmating Forces	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.19.2	1818	1	0	
	Coupling Proof Torque	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.18	1818	1	0	
	Shielding Effectivness	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.25	1818	3	0	
	Cable retention force	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.26	1818	3	0	
	Ageing	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.28	1818	3	0	
	Mating Endurance	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.29	1818	3	0	
	Bending	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.30	1818	3	0	
	Vibration	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.31	1818	3	0	
	Temperature Cycling I	<input type="checkbox"/>	ESCC 3408, Para. 8.17.2.1				N.A. for low power C.A.
	Temperature Cycling II	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.17.2.2	1818	3	0	
	Thermal Stability of Insertion Loss	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.35	1818	3	0	
	Corona	<input type="checkbox"/>	ESCC 3408, Para. 8.32				N.A. for low power C.A.
	RF Power Handling	<input type="checkbox"/>	ESCC 3408, Para. 8.33				N.A. for low power C.A.
	Multipaction	<input type="checkbox"/>	ESCC 3408, Para. 8.21				N.A. for low power C.A.
	RF Power Cycling	<input type="checkbox"/>	ESCC 3408, Para. 8.34				N.A. for low power C.A.
	Shielding Effectivness	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.25	1818	3	0	
	Electrical Measurement	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.20.4	1818	3	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.24	1818	3	0	
	Radiographic Inspection	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.22	1818	3	0	
	DPA	<input checked="" type="checkbox"/>	ESCC 3408, Para. 8.38	1818	1	0	



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NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION APPROVAL

ENTRIES

- Form Heading** shall indicate:— the title of the component as given in its detail specification or the name of the series or family; — the entering date; — the serial number and the suffix of the form.
- Box 1** shall provide details given in table; in particular there shall be listed - the variants or range of variants; the range of components by using the ESCC code for values tolerances, etc.; the designation given in detail specification as 'based on'; —under Test Vehicle enter either a cross or the specific characteristic capable to identify the component tested; — under component similar enter a cross.
- Box 2 and 3** Manufacturer's name and location of plant where the components were manufactured and tested.
- Box 4** Generic and detail specifications used during qualification program.
- Box 5** Reference to test report(s) submitted in support of application.
- Box 6** Enter details to identify the PID that was applicable at the time the qualification lot was manufactured.
- Box 7** If the PID was evolved after qualification lot manufacture, adequate details of such evolution shall be provided together with reasons for changes. Major changes shall be clearly marked.
- Box 8** The box serves to identify the current PID and the Executive Representative that has verified it together with the date of this occurrence.
- Box 9** This box can be completed only after a physical visit to the plant to confirm that the practices, procedures, materials, etc. used in manufacturing the components are as described in the PID. This survey shall be carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.
- Box 10** Details entered shall be sufficient to evidence that an evaluation program according to ESCC Basic Specification No. 22600 has been performed and that the results thereof are summarized in the survey and test reports. If the evaluation program has not been carried out according to established ESCC documents, the applicant Executive Representative shall provide alternative data and declare its assessed degree of satisfactory compliance with the ESCC basic requirements. Reference shall be made to the reports on Destructive Physical Analysis (DPA), Failure Analysis and Non conformance (NCCS) issued during the Evaluation and/or Qualification Phase.
- Box 11** Enter the name of the Executive Coordinator and the signature.
- Box 12** To be used when there is a need to expand any of the boxes from 1 through 10. Identify box affected and reference the Box 12 in the relevant Box. Box 12 can be broken into 12a, 12b, etc. if several Boxes have to be expanded.
- Box 13** Fill table as requested.
- Box 14** Fill in any additional tasks required to achieve full compliance.
- Box 15** All Executive recommendations on the application itself, special conditions or restrictions, modifications of the QPL or ESCC QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 15, signed by the ESA Representative.
- Box 16** Fill in Table as requested.
- Box 17** Confidential details of PID changes shall be provided.
- Box 18** State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 18 each nonconformance shall be sequentially numbered. If relevant state 'None'
- Box 19** Any additional action deemed necessary by the Executive Representative to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the nonconformance.
- Box 20** Additional Comments