ESCC

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: CONNECTORS, ELECTRICAL, TRIAXIAL, BAYONE COUPLING, Page 1

NON-REMOVABLE CRIMP CONTACTS, MIL-STD-1553B DATABUS, Appl. No. **BASED ON TYPE ACB1 SERIES** Executive Member: CNES 16/12/2013 Date: 288B 1 Components (including series and families) submitted for Extension of Qualification Approval: **ESCC** BASED TEST COMPONENT COMPONENT **VARIANTS** RANGE OF COMPONENTS VEHICLE / S SIMILAR ON NO. 3401/079 01 to 18 Characteristics: Variants 01 to 08: ACB1 02, 06, 10, 14 Plug 3 and 4 Lugs, Straight and Right Angle with pin contact. Variants 09 to 18: Bulkhead Jacks, 3 and 4 Lugs, Straight and Right Angle with solder contact. All cables are 77Ω MIL-STD-1553B Data Bus twisted shielded pairs. Working Voltage: 200 VrmsRated Current (contact): 1A Operating Temperature Range ($^{\circ}$): -55 to +150 2 3 4 Component Manufacturer Location of Manufacturing Plant(s) **AXON' CABLE S.A.** Route de Chalon Date of original qualification approval: 51210 Montmirail - France Date: 01/05/2009 Certificate Ref No. 288 5 6 7 Qualification Extension Report ESCC Specifications used for Deviations to LVT testing and Detail Specification Maintenance of qualification testing: reference and date: used: Generic: 3401 Issue: No \boxtimes (supply details in Box TEST REPORT N3344 Issue A, November 25th 2013, 15) See appendix 1 Detail(s): 3401/079 Issue: 2 Deviation from current Specifications: \boxtimes Yes (Supply details) 8 Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) Project Name Testing Level LAT Date code **Quantity Delivered** See appendix 2 PID changes since start of qualification 9 Current PID Verified by: Sauveplane Jean-baptiste 10 Name of Excutive Representative None \boxtimes Ref No: CNES-PID-06-Axon' Minor* Issue: Edition 3 - Revision 3 28/11/2013 Major* Date: *Provide details in box: See appendix 3 Rev Date: 28/11/2013 11 Current Manufacturing facilities surveyed by: Sauveplane Jean-baptiste 08/11/2013 on (Name of Executive Representative) (Date) Satisfactory: Yes No Explain Report Reference: CRIM_982946

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ESCC	Component title:		VABLE (CRIMP CONTAC		YONE COUPLING, STD-1553B DATABUS,	Appl. No.
	Executive Member:	CNES			Date:	16/12/2013	288B
							12
Failure Analysis, DPA, NCCS ava	ailable: Yes	□ No		(Supply data)			
Ref. No's and purposes:							
The undersigned hereby certifies on behalf that the appropriate documentation has bee (except as stated in box 15;) - that the repo CNES as the responsible Executive Member	en evaluated; - that ful orts and data are availa	I compliance to able at the ES0	o all ESC CC Exec	C requirements in the contract of the contract	is evidend re applies	on behalf of	13
Date: 17/12/2013						JP. BUSSENO	Τ
					(Si	ignature of the Executive (Coordinator)
Continuation of Boxes above:							14



Date:

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

CONNECTORS, ELECTRICAL, TRIAXIAL, BAYONE COUPLING, NON-REMOVABLE CRIMP CONTACTS, MIL-STD-1553B DATABUS, BASED ON TYPE ACB1 SERIES Component title:

Date: 16/12/2013

Signature, ESA Representative

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CNES Executive Member:

15 Non compliance to ESCC requirements: Paragraph No.: Specification Non compliance Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of 16 noncompliance: Executive Manager Disposition 17 Application Approval: Yes □ No Action / Remarks:



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

CONNECTORS, ELECTRICAL, TRIAXIAL, BAYONE COUPLING, NON-REMOVABLE CRIMP CONTACTS, MIL-STD-1553B DATABUS, BASED ON TYPE ACB1 SERIES Component Title:

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ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

Tests conducted in compliance with:

ESCC 3401 generic specification; Chart V (for ESCC/QPL parts); Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

ESCC3401.079.02: Plug bayonet 3 lugs, straight version for AWG24 twisted shield pair with an outer diameter > 3.4 mm and ≤ 3.8 mm	ESCC3401.079.06: Plug bayonet 4 lugs, straight version for AWG24 twisted shield pair with an outer diameter > 3.4 mm and ≤ 3.8 mm
ESCC3401.079.10: Bulkhead jack bayonet 3 lugs, straight version for AWG24 twisted shield pair with an outer diameter > 3.4 mm and ≤ 3.8 mm	ESCC3401.079.14: Bulkhead jack bayonet 4 lugs, straight version for AWG24 twisted shield pair with an outer diameter > 3.4 mm and ≤ 3.8 mm

Detail Specification reference: 3401/079

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
	Wiring	\boxtimes	ESCC 3401 Para. 9.10	1337	3	0	
dno	Climatic Sequence	\boxtimes	ESCC 3401 Para. 9.13	1337	3	0	
Environmental and Mechanical Subgroup	Permanence of Marking		ESCC 24800				Not applicable
vironm nanica	Corrosion	\boxtimes	IEC Publication No. 68-2-11	1337	3	0	
Mech	Seal Test		ESCC 3401 Para. 9.9				Not applicable
	Plating Thickness		ESCC 3401 Para. 5.2.3				Not applicable
	Wiring	\boxtimes	ESCC 3401 Para. 9.10	1337	2	0	
	Rapid change of Temperature	\boxtimes	ESCC 3401 Para. 9.16	1337	2	0	
	Contact Retention	\boxtimes	ESCC 3401 Para. 9.17	1337	2	0	
sdno	Maintenance Ageing		ESCC 3401 Para. 9.27				Not applicable
Endurance Subgroups	Endurance	\boxtimes	ESCC 3401 Para. 9.18	1337	2	0	
S apr	Seal Test		ESCC 3401 Para. 9.9				
durar	Joint Stength	\boxtimes	ESCC 3401 Para. 9.15	1337	2	0	
Ë	Engage/Separ. Forces	\boxtimes	ESCC 3401 Para. 9.28	1337	2	0	
	Oversize Pin Exclusion		ESCC 3401 Para. 9.29				Not applicable
	Probe Damage		IEC Publication No. 512-8				Not applicable
la la							
Additional Tests							
Ad							



Box 22

Additional Comments.

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title:

CONNECTORS, ELECTRICAL, TRIAXIAL, BAYONE COUPLING, NON-REMOVABLE CRIMP CONTACTS, MIL-STD-1553B DATABUS, BASED ON TYPE ACB1 SERIES

Executive Member: CNES Date: 16/12/2013

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NO	TES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL
ENTRIES	
Form heading	shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member; - the entering date; - the certificate number and its sequential suffix.
Box 1	shall provide details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components (the ESCC code is recommended to indicate the values or values range, the tolerance, the voltage, etc); the designation given in the detail specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.
Box 2; 3 and 4	As per QPL entry; otherwise, an explanation of the changes must be supplied.
Box 5	Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests reported were performed. If the specifications are different from those current on the date of the application, see Box 6.
Box 6	Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of deviations this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision indicate also whether the test data deviates or not from such current documents.
Box 7	Must reference the report(s) supplied in support of the application.
Box 8	Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.
Box 9	If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall be provided together with the reasons for the changes. Major changes shall be clearly marked.
Box 10	Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be arranged as close as possible to the required date of extension.
Box 11	This box can be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the practices, procedures, material, 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 12	Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Nonconformance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced satisfactory results.
Box 13	Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.
Box 14	To be used when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in the relevant Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.
Box 15	Fill in Table as requested.
Box 16	Any additional action deemed necessary by the Executive Member 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 noncompliance.
Box 17	All Executive Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.
Box 18	Fill in Table as requested.
Box 19	Confidential Details of PID changes including those of a confidential nature, shall be provided.
Box 20	State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance shall be sequentially numbered. If relevant state 'None'.
Box 21	Any additional action deemed necessary by the Executive Member 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 noncompliance.