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APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title:

Connectors Miniature Electrical Circular Push-Pull Coupling Removable Crimp Contacts, based on type DBAS

Page 1 Appl. No.

		Executive Member:	CNES	**************************************	Date: 1	1/05/2015	25P	
Components (includ	ding series and families)	submitted for Extension	of Qualification	Approval:				_1_
ESCC COMPONENT NO.	VARIANTS	RANGE OF COM	MPONENTS	BASED ON		TEST VEHICLE / S		NT
3401/008	01	Circular Multicontacts connectors. DBAS			DBAS 1A 090	74-12-0 SN		
3401/009	01 to 20		contact arrangements with DBAS 78G 12-0 PN DAS					
3401/012	01 to 04	Special contact arran contacts size AWG 2 and 8.		DBAS 70-27-2 SN 1A 090				
3401/064	01 to 41	Operating Temperat -65 to +200	ure Range (°C):	DBAS 78G 27-2 PN 1A 090				
Component & Deutsch	Manufacturer 2	Location of Ma 17, rue Lavoisier 27000 Evreux France	nufacturing Plant	(s) <u>3</u>	Date of origina Date: Certificate Re	al qualification appro 03/07/1979 f No. 25	oval:	4
The second second second second second	lification testing: Issue: 3 Issue: 5 Issue: 5	780	☐ (supply d 15) Int Specifications: ☐ (Supply d	details in Box details) upport of this ap	reference and PVE 025-169	VA, 05/07/2015 to ESCC listed first		8
Project Name See appendix	Testing Level	LAT		Date code	_	Quantity De	elivered	3.2.5
1.00								
PID changes since	start of qualification	9	Current PID \	/erified by:	-	CNES		10
None □ Minor* ⊠ Major* □	*Provide details in box:		Issue:	PID-025 n 27/04/2015	Name of E	excutive Representa	11/05/2015	
Current Manufactur	ing facilities surveyed by:		CNES		on	19/03	3/2015	11
		Maria	e of Executive Re	epresentative)		(Da	ate)	
Satisfactory:	Yes ⊠	No □ Ex	plain					
Report Reference:	CRIM_996719_le Deutsch.docx	19-03-2015-						

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Page 2 Connectors Miniature Electrical Circular Push-Pull Coupling Removable Crimp Contacts, based on type DBAS Component title: Appl. No. Executive Member: CNES 11/05/2015 25P 12 Failure Analysis, DPA, NCCS available: \boxtimes Yes No (Supply data) Level 1 NCCS to be raised for traceability of problem found during the Joint Strength test. Failures are due to the non qualified AWG 28 cable selected for this test and not to the crimping itself. Considered as minor and not holding the maintenance. Ref. No's and purposes: 13 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 15;) - that the reports and data are available at the ESCC Executive and therefore applies on behalf of CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein. 18/05/2015 Date: (Signature of the Executive Coordinator) Continuation of Boxes above: 14

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Date: 11/05/2015

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Non comp	liance to ESCC requirements:		15
No.:	Specification	Paragraph	Non compliance
Additional	tacks required to achieve full compliance for	ESCC qualification or rationale for acceptability	0.5
noncompli		ESCC qualification of rationale for acceptability of	16
· Le	ith no impact he joint-strength	on scope of justice lets with vine	and closed-out fication as ANG-26 were passed.
Executive I	Manager Disposition		17
Application Action / Re			
Date:			Signature, ESA Representative



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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)

Component Title:

Executive Member:

Tests vehicle identification/description:

DBAS 74-12-0 SN 1A 090 (DC1510)	DBAS 78G 12-0 PN 1A 090 (DC1510)				
DBAS 70-27-2 SN 1A 090 (DC1447)	DBAS 78G 27-2 PN 1A 090 (DC1447)				

Detail Specification reference:

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed Comments on Rejection
	Wiring	×	ESCC 3401 Para. 9.10	1447	3	0	
pun	Climatic Sequence	×	ESCC 3401 Para. 9.13	1447	3	0	San 199
Environmental and Mechanical Subgroup	Permanence of Marking	×	ESCC 24800	1447	3	0	50
	Corrosion	×	IEC Publication No. 68-2-11	1447	3	0	
Mech	Seal Test		ESCC 3401 Para. 9.9				NA
	Plating Thickness	×	ESCC 3401 Para. 5.2.3	1447	10	0	
	Wiring	×	ESCC 3401 Para. 9.10	1510	2	0	
	Rapid change of Temperature		ESCC 3401 Para. 9.16	1510	2	0	
	Contact Retention	⊠	ESCC 3401 Para. 9.17	1510	2	0	
sdr	Maintenance Ageing	×	ESCC 3401 Para. 9.27	1510	2	0	
ogrot	Endurance	⊠	ESCC 3401 Para. 9.18	1510	2	0	
e Sul	Seal Test		ESCC 3401 Para. 9.9			8	NA
Endurance Subgroups	Joint Stength	×	ESCC 3401 Para. 9.15	1504	10	2	AWG 28 cable used for crimping cannot sustain the requirement of 30N.
	Engage/Separ. Forces	⊠	ESCC 3401 Para. 9.28	1451	10	0	
	Oversize Pin Exclusion	⊠	ESCC 3401 Para. 9.29	1506	10	0	
	Probe Damage	×	IEC Publication No. 512-8	1506	10	0	
7							
Additional Tests							
A.							



Box 22

Additional Comments.

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CNES Date: 11/05/2015 Executive Member:

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Component title:

	NOTES 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.