



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: **CONNECTORS, MINIATURE, ELECTRICAL, CIRCULAR, TRIPLE-START SELF-LOCKING COUPLING, SCOOP-PROOF, REMOVABLE & NON-REMOVABLE CRIMP CONTACTS BASED ON TYPE MIL-C-38999, SERIES III**

Executive Member: CNES

Date: 02/08/2022

Page 1

Appl. No.

222L

Components (including series and families) submitted for Extension of Qualification Approval:

1

ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3401/056 3401/070	01	#20 with standard contact arrangements (3,4,5,6,7,8,10,18,19,26,32,41,53,55,61 contacts) #22 with high density arrangements (6,13,22,37,55,66,79,100,128 contacts)	MIL-C-38999 serie 3	340105601 340107001	
3401/058	01 to 14	Other arrangements with contact sizes # 20, 16, 12, 8, 4 and Triax contact Receptacle and Plug Shell Sizes: 09,11,13,15,17,19,21,23,25		3401 058 02B 3401 058 04B 3401 058 06B 3401 066 01B2 3401 066 02B1	
3401/062	28 to 54	Operating temperature (°C) : -65 to +200		3401 062 29B 3401 062 38B 3401 062 40B 3401 062 49B 3401 062 34B 3401 062 52B 3401 062 33B 3401 062 42B	
3401/066	01 to 02				

Component Manufacturer SOURIAU	2	Location of Manufacturing Plant(s) 3 Rue du Vallon 94440 Marolles en Brie France	3	Date of original qualification approval: Date: 01/05/1995 Certificate Ref No. 222	4
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ESCC Specifications used for Maintenance of qualification testing: Generic: 3401 Issue: 5 Detail(s): 3401/056 Issue: 9 3401/058 5 3401/062 3 3401/066 4 3401/070 5	5	Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)	6	Qualification Extension Report reference and date: PV8975-21-067 issue A 07/03/22	7
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Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)

8

Project Name	Testing Level	LAT	Date code	Quantity Delivered
See appendix 1				

PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:	9	Current PID Verified by: <u>F. Nouals, CNES</u> Name of Executive Representative Agency Ref No: ZQU 92 M 256 Issue: q Date: 02/08/2022 Rev Date: 10/01/2022	10
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Current Manufacturing facilities surveyed by: <u>François NOUALS, CNES</u> on <u>12/07/2022</u> (Name of Executive Representative) (Date)	11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain	
Report Reference: <u>Compte de de reunion visite du 12 Juillet 2022</u>	



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Executive Member: CNES Date: 02/08/2022

Page 2

Appl. No.

222L

12

Failure Analysis, DPA, NCCS available: Yes No (Supply data)

Ref. No's and purposes: 1CSOU201 see box 14

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.

Date: 02/08/2022

G. QUADRI

(Signature of the Executive Coordinator)

14

Continuation of Boxes above:
BOX 12 :NCCS 1SOU201

*The root causes of the detected anomalies have to do with a non-compliance in the tests realization in the laboratory, a lack of sensitization of defect cause analysis and an improper cabling of one test specimen
The qualification status is not impacted, nevertheless several corrective actions lie open before to allow the close out of the NCSS*



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Executive Member: CNES

Date: 02/08/2022

Page 3

Appl. No.

222L

Non compliance to ESCC requirements:

15

No.:	Specification	Paragraph	Non compliance

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

16

Executive Manager Disposition

17

Application Approval: Yes No

Action / Remarks:

Date:

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



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Executive Member: CNES

Date: 02/08/2022

Page 4

Appl. No.

222L

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

18

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:

Série	Référence	Désignation	Brochage	Répartition		Raccord 3401062xxB	Désignation	
				LAT1	LAT2			
Série 3 (3401/056)	3401056018001935PN	Embase Colletette Carrée taille 19 Fiche taille 19	19-35 (66 Cts #22)	1 Couple	1 Couple	3401 062 33B 3401 062 42B	Raccord simple	
	3401056018061935SN						Raccord s/c droit	
	3401056018072353PN	Embase Fixation par Ecrou taille 23 Fiche taille 23	23-53 (53Cts #20)			3401 062 44B 3401 062 53B	Raccord s/c droit	
	3401056018062353SN						Raccord s/c 90°	
	3401056018072524PN	Embase Fixation par Ecrou taille 25 Fiche taille 25	25-24 (12 Cts #16) (12 Cts #12)			3401 062 36B 3401 062 45B	Raccord simple	
	3401056018062524SN						Raccord s/c droit	
	340107001800C1519PN	Embase Colletette carrée taille 15 (picots) Fiche taille 15	15-19 (19 Cts #20)			/	/	/
	3401056018061519SN							Raccord simple

Référence	Désignation
340105801B	Broche #22 pour série I et III
340105803B	Broche #20 pour série I et III
340105805B	Broche #16 pour série I et III
340105807B	Broche #12 pour série I et III
340104501B	Broche #22 pour série II
340104503B	Broche #20 pour série II
340104505B	Broche #16 pour série II
340104507B	Broche #12 pour série I

Référence	Désignation
340105802B	Douille # 22 pour série I et III
340105804B	Douille # 20 pour série I et III
340105806B	Douille # 16 pour séries I et III
340105808B	Douille # 12 pour séries I et III
340104502B	Douille # 22 pour série II
340104504B	Douille # 20 pour série II
340104506B	Douille # 16 pour séries II
340104508B	Douille # 12 pour séries II

Detail Specification reference:

Chart V	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental and Mechanical Subgroup	Wiring	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.10	2021	8	0	
	Climatic Sequence	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.13	2021	8	0	
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC 24800	2021	8	0	
	Corrosion	<input checked="" type="checkbox"/>	IEC Publication No. 68-2-11	2021	8	0	
	Seal Test	<input type="checkbox"/>	ESCC 3401 Para. 9.9				Not applicable
	Plating Thickness	<input checked="" type="checkbox"/>	ESCC 3401 Para. 5.2.3	2021	8	0	
Endurance Subgroups	Wiring	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.10	2021	8	0	
	Rapid change of Temperature	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.16	2021	8	0	
	Contact Retention	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.17	2021	8	0	
	Maintenance Ageing	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.27	2021	8	0	
	Endurance	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.18	2021	8	0	
	Seal Test	<input type="checkbox"/>	ESCC 3401 Para. 9.9				Not applicable
	Joint Strength	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.15	2021	8	0	
	Engage/Separ. Forces	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.28	2021	8	0	
	Oversize Pin Exclusion	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.29	2021	8	0	
	Probe Damage	<input checked="" type="checkbox"/>	IEC Publication No. 512-8	2021	8	0	
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Page 6

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222L

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.
Box 22	Additional Comments.