

Component Title:

CONNECTORS, ELECTRICAL, RECTANGULAR, NON REMOVABLE SOLDER BUCKET, PCB AND WIRE-WRAP CONTACTS AND REMOVABLE COAXIAL AND POWER CONTACTS, BASED ON TYPE D\*M

Executive Member: CNES Date: 11/01/2022 Page 1

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Components (includi	ng series and families	submitted for Extensi	on of Qualification	Approval:				1
ESCC COMPONENT NO.	VARIANTS	RANGE OF C	OMPONENTS	BASED ON	)	TEST VEHICLE / S	COMPONEN SIMILAR	Т
3401/001 3401/004	01 & 02 01 to 25	Shell size : E, A, E Standard density I 37, 50 size 20 cor	ayout : 9, 15, 25,	D*M		See Annex 1 page 4	D*MA	
3401/022 3401/040	01 to 95 01 to 17	High density layou 78, 104 size 22 co						
3401/080	01	Combined contact	arrangements :					
3401/072	05 to 14, 25 to 39, 46 to 55, 61 to 65, 72, 73, 76 to 80, 81 to 153	Mounting Type: st holes; floating mo Termination conta bucket, straigth Po wrap Gold-plated non-n Coaxial contact ar 3401/004 variants Power contact arr 3401/040 variants	andard mounting unt; captive nuts cts: solder CB, 90° PCB, wire nagnetic coating rangements: 01 to 25 angements:					
Component M C&K Components	anufacturer 2	Location of N	Manufacturing Plant	(s) 3	Date	of original qualification a	oproval:	4
our components		39100 DOLE - Fra	nce		Date:	• .	рргочан.	
					Certifi	icate Ref No. 71		
	5	<u>i                                     </u>		6				7
ESCC Specifications Maintenance of qual Generic: 3401  Detail(s): 3401/04	ification testing:	used: No ⊠ Yes	No ⊠ Yes ☐ (supply details in Box 15)  Deviation from current Specifications:  Report n° D210160C contacts Report n° D210162C Connectors					
								8
Summary of procure Project Name	ment or equivalent tes  Testing Level			upport of this ap Date code	oplication	n (those to ESCC listed f	irst) Delivered	
See appendix	resuing Level	LAI		Date code		Quantity	Delivered	
PID changes since s	tart of qualification	g	Current PID \	/erified by:		Nouals François, CN		10
None □ Minor* ⊠			Ref No:	CS-FR030	Na	ame of Excutive Represe	entative	
Major* □	*Provide details in bo	x:	Issue:	2 rev Q		Date:	11/01/2022	
			Rev Date:	01/05/2021				11
Current Manufacturii	ng facilities surveyed b	y:	Nouals Franç	ois, CNES	on	15	5/09/2021	
		(Na	me of Executive Re	epresentative)			(Date)	
Satisfactory:	Yes ⊠	No □ I	Explain CRIM	appended				
Report Reference:	CRIM du 15/09	/21						

CONNECTORS, ELECTRICAL, RECTANGULAR, NON REMOVABLE SOLDER BUCKET, PCB AND WIRE-WRAP CONTACTS AND REMOVABLE COAXIAL AND POWER CONTACTS, BASED ON TYPE D\*M Component title:

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									<del>.                                    </del>
Failure	Analysis, DPA	, NCCS available:	Yes		No	$\boxtimes$	(Supply data)		12
Ref. No's	and purposes:								
									13
that the a	ppropriate docume	rtifies on behalf of the ES entation has been evalua ) - that the reports and da	ted; - that fu	ıll comp	liance to	all ES	CC requirements is e	evidence	
CNES as	the responsible Ex	kecutive Member for ESC	CC qualifica	tion stat	tus to be	extend	ed to the componen	t(s) listed herein.	
Date:	17/01/2022							JP BUSSENOT	
								(Signature of the Executive Coordinator)	, 
	tion of Boxes above addition of backshe	e: ll (variants 81 to 153 of E	ESCC 3401	(072)					14

Component title:

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and Safety Department

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		Executive Member:	CNES	Date: 11/01/202	2 71T	
Non compli	iance to ESCC requirements:					15
No.:	Specification		Paragraph	N	lon compliance	
Additional t	asks required to achieve full co	mpliance for ESCC qua	lification or rationale for acceptability	of		16
Executive N	Manager Disposition					17
Application Action / Re		No 🗆		Britta	Digitally signed by Britta Schade Date: 2022.01.28	
Date:				Schade: Head	11:18:11 +01'00'  I of the Product Assurance	



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Date:

11/01/2022

Executive CNES Member:

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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:

Rapport D210162C page 3/6 Level 1 Environnemental and Mechnical subgroup

Traceability	N°	Connector Description	C&K Part Number	Date Code	Contact Description / C&K Part Number	Date Code	Wiring	Wire Type	Crimp Tool	Locator	Selector Position	Accessories / Backshells
Appendix 3	1.1	DAM15PNMBOL3 340100101B	C115371-5154	2105A	15 cts D*M Pin #20 OL3 SD Straight PCB	/	Not Applicable	/	/	/	/	/
Appendix 4	1.1	DAMA15SNMB-FO 340100201B	C115370-5013	2105B	15 cts D*MA Skt #20/20 340100502B C031-8996-101H	2105	Applicable	AWG20	M22520/2-01	M22520/2-08	7	/
Appendix 5		DEMA15PNMB-FO 340100202B	C115368-5031	2111A	15 cts D*MA Pin #22/22 340100507B C330-8998-101H	2105A	Applicable	AWG22	M22520/2-01	M22520/2-09	4	Backshell 340102281B C115366-2274C DC2105A
Appendix 6	1.2	DEBMA15PSNMB-FO 340102002B	C115368-6015	2105A	15 cts D*MA Savers #22/22 340102102B C031-8992-101H	2107A	Not Applicable	/	/	/	/	/
Appendix 7		DEM15SNMBOL3 340100102B	C115371-6601	2105A	15 cts D*M Skt #22 OL3 HD Straight PCB	/	Not Applicable	1	/	/	/	Lightweight Backshell 340107205B NMBA-A174 C115366-2586D DC2105A
Appendix 8	1.3	DAM26PNMB 340100102B	C115371-6852	2105A	26 cts D*M Pin #22/22 Soder Bucket	/	Applicable	AWG22		Solder Iron		1
Appendix 9	1.3	DAMA26SNMB-FO 340100202B	C115368-5033	2105B	26 cts D*MA Skt #22/22 340100508B C031-8998-101H	2105A	Applicable	AWG22	M22520/2-01	M22520/2-06	4	/

#### Level 2 Endurance Subgroup

Traceability	N°	Connector Description	C&K Part Number	Date Code	Contact Description / C&K Part Number	Date Code	Wiring	Wire Type	Crimp Tool	Locator	Selector Position	Accessories / Backshells
Appendix 10	2.1	DBMA25PNMB-FO 340100201B	C115370-5014	2105A	25 cts D*MA Pin #20/26 340100503B C330-8997-101H	2107A	Applicable	AWG26	M22520/2-01	M22520/2-08	7	/
Appendix 11		DBM25SNMB 340100101B	C115371-5015	2108A	25 cts D*M Skt #20/20 Soder Bucket	1	Applicable	AWG26		Solder Iron		/
4		DBMSWSPNMB	C115371-5016	2105B	2 cts Coax Pin Crimp Braid 340100415B C053740-0013C	2105A	Applicable	50CIS ESCC 3902/001	HX4 M22520/5-01	/	Closure B	,
Appendix 12	Appendix 12	340100101B	C1133/1-3016 2	2103B	3 cts Power Pin Crimp Braid 340104011B C115224-3010C	2108A	Applicable	AWG 12	M300BT	UH2-5	1	,
Appendix 13		DBM5W3SNMB	C115371-5017	2108A	2 cts Coax Skt Crimp Braid 340100416B C053742-0014C	2105A	Applicable	50CIS ESCC 3902/001	HX4 M22520/5-01	/	Closure B	,
лереник 13		340100101B	C1133/1-301/	2100%	3 cts Power Skt Solder Braid 340104004B C115224-2020C	2107A	Applicable	AWG 12		Solder Iron		,

Contac rapport D 210160

Level	N°	Contact Type	Contact Reference	C&K Part Number	Date Code	Batch N°	Tracability
	1 to 10	Skt D*MA Standard # 20/20 Crimp Type	340100502B	C031-8996-101H	2105A	20-2294	Appendix 2
	1 to 10	Savers Pin/Skt D*BMA #22	340102102B	C031-8992-101H	2107A	20-2043	Appendix 3
	1 to 10	Skt D*MA Standard # 22/22 Crimp Type	340100508B	C031-8998-101H	2105A	20-1321	Appendix 4
	1 to 10	Skt D*MHD-OL3-NM-AS-T12	/	C031-8999-101	/	20-1953	Appendix 5
2	1 to 10	Skt D*M-SOLDER-NM-AS-T12	/	C031-8919-101	/	20-2227	Appendix 6
	N°	Contact Type	Contact Reference	C&K Part Number	Date Code	МО	Tracability
	1 to 10	Pin D*M Coaxial Crimp Braid Type	340100415B	C053740-0013C	2105A	M219660	Appendix 7
	1 to 10	Skt D*M Coaxial Crimp Braid Type	340100416B	C053742-0014C	2105A	M219670	Appendix 8
	1 to 10	Skt D*M Power Solder Braid Type	340104004B	C115224-2020C	2107A	M224650	Appendix 9

# ABSTRACT OF RESULTS OF TESTS

		ue 5 - March 2018		Test report number : D210162C
	Test report date :			
Detail specificat	March 10th 2021			
- Detail specifica	tion ESCC 3401/001 -	lssue 11 - November 20	17	Product :
				Connectors:
				D*M / D*MA / D*BMA
			)	
			h 2017	
ESCC 3401	Number Tested	Number Passed	Number Failed	Remarks
§ 9.10				Appendix 1 pages 1 to 4
				Not Applicable
+				Electrical measurements short IV only
20122				
				Appendix 1 page 5
_				Appendix 1 page 6 Appendix 1 page 7
				Appendix I page 8
-				Appendix 1 page 9
_	9	9	0	Appendix 1 pages 10
				Appendix 1 page 11
				Appendix 1 page 12
§ 9.1.1.2				Appendix 1 page 13
§ 9.13.7				Appendix 1 page 14
§ 9.19				Appendix 1 page 15
§ 9,22				Appendix 1 pages 16 & 17
§ 9,22				Appendix 1 page 18
§ 9.9				Appendix 1 page 19
₹ 9,14				Appendix 1 page 20
§ 9.10				Appendix 2 pages 1 to 3
				Not Applicable
				Electrical measurements shart IV only
****				
_				Appendix 2 page 4
				Appendix 2 page 5
				Appendix 2 page 6 Appendix 2 page 7
-				
				Appendix 2 page 8
§ 9,27				Appendix 2 pages 9 & 10
				Appendix 2 page 11
§ 9,17				Appendix 2 pages 12 to 14
§ 9,27	4	4	0	Appendix 2 pages 15 & 16
§ 9.18				Appendix 2 page 17
§ 9.1.1.3				Appendix 2 pages 20 to 22
§ 9.1.1.4				Appendix 2 page 25
§ 9.20				Appendix 2 page 18
				Appendix 2 page 19
§ 9.18		I		
§ 9.20				Appendix 2 page 18
§ 9.20 § 9.1.1.3				Appendix 2 pages 20 to 22
§ 9.20 § 9.1.1.3 § 9.1.1.4				Appendix 2 pages 20 to 22 Appendix 2 page 25
§ 9.20 § 9.1.1.3 § 9.1.1.4 § 9.1.1.1				Appendix 2 pages 20 to 22 Appendix 2 page 25 Appendix 2 page 23
§ 9.20 § 9.1.1.3 § 9.1.1.4				Appendix 2 pages 20 to 22 Appendix 2 page 25
	Generic specificat Detail specificat Applicable door Applicable door ESCC 3401  § 9.10  § 9.13.2 § 9.11.1 § 9.13.3 § 9.13.4 § 9.13.5 § 9.11.1 § 9.13.6 § 9.11.1 § 9.13.7 § 9.19 § 9.22 § 9.22 § 9.22 § 9.11 § 9.10  § 9.10  § 9.10  § 9.10  § 9.10  § 9.11	Detail specification number:   Detail specification ESCC 3401/001 -     Detail specification ESCC 3401/002 -     Detail specification ESCC 3401/004 -     Detail specification ESCC 3401/005 -     Detail specification ESCC 3401/020 -     Detail specification ESCC 3401/022 -     Detail specification ESCC 3401/022 -     Detail specification ESCC 3401/072 -     Detail specification ESCC 3401/072 -     Applicable documents : ECSS-Q-ST-7-     Applicable documents : ECSS-Q-ST-7-     ESCC 3401	Detail specification number: - Detail specification ESCC 3401/001 - Issue 11 - November 20 - Detail specification ESCC 3401/002 - Issue 12 - April 2020 - Detail specification ESCC 3401/002 - Issue 12 - April 2020 - Detail specification ESCC 3401/004 - Issue 4 - April 2014 - Detail specification ESCC 3401/005 - Issue 9 - December 2021 - Detail specification ESCC 3401/020 - Issue 9 - December 2021 - Detail specification ESCC 3401/021 - Issue 5 - October 2015 - Detail specification ESCC 3401/022 - Issue 13 - June 2019 - Detail specification ESCC 3401/022 - Issue 13 - June 2019 - Detail specification ESCC 3401/022 - Issue 10 - June 2020 - Applicable documents : ECSS-Q-ST-70-26C - Rev1 - 15 Marcl - Applicable documents : ECSS-Q-ST-70-26C - Rev1 - 15 Marcl - Applicable documents : ECSS-Q-ST-70-26C - Rev1 - 15 Marcl - Applicable documents : ECSS-Q-ST-70-36C - Rev1 - 15 Marcl - Applicable documents : ECSS-Q-ST-70-36C - Papplicable 39 - 1.1.1 - § 9.13.3 - § 9.10 - S 9.13.4 - § 9.13.5 - § 9.10 - S 9.10 - S 9.10 - S 9.11.1 - § 9.11.2 - § 9.16 - § 9.11.1 - § 9.11.2 - § 9.16 - § 9.11.1 - § 9.11.2 - § 9.16 - § 9.17 - § 9.27 - § 9.27 - § 9.27 - § 9.27 - § 9.27 - § 9.17 - § 9.27 - § 9.18 - S 9.11.3 - § 9.11.4	Detail specification number:   Detail specification ESCC 3401.001 - Issue 11 - November 2017     Detail specification ESCC 3401.002 - Issue 12 - April 2020     Detail specification ESCC 3401.003 - Issue 8 - October 2015     Detail specification ESCC 3401.004 - Issue 4 - April 2014     Detail specification ESCC 3401.005 - Issue 9 - December 2020     Detail specification ESCC 3401.020 - Issue 9 - December 2020     Detail specification ESCC 3401.021 - Issue 5 - October 2015     Detail specification ESCC 3401.022 - Issue 9 - December 2020     Detail specification ESCC 3401.022 - Issue 13 - June 2019     Detail specification ESCC 3401.022 - Issue 10 - June 2020     Applicable documents : ECSS-Q-ST-70-26C - Rev1 - 15 March 2017     Applicable documents : ECSS-Q-ST-70-26C - Rev1 - 15 March 2017     Applicable documents : ECSS-Q-ST-70-26C - 6 March 2009      ESCC 3401



Component title:

CONNECTORS, ELECTRICAL, RECTANGULAR, NON REMOVABLE SOLDER BUCKET, PCB AND WIRE-WRAP CONTACTS AND REMOVABLE COAXIAL AND POWER CONTACTS, BASED ON

Executive Member: CNES

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

	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

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.

Box 21

shall be sequentially numbered. If relevant state 'None'.