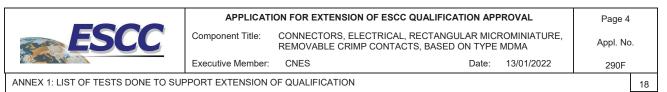
			APPLICATION	FOR	EXTENSIO	N OF ESC	CC QI	UALIFI	CATION APPROVAL		Page	1
E	SCC	С							IGULAR MICROMINIATU ED ON TYPE MDMA	RE,	Appl. N	0.
		E		CNES			-	,	ate: 13/01/2022		290F	
Components (includi	ng series and famil	ies) s	ubmitted for Extension	of Qı	ualification /	Approval:						1
ESCC COMPONENT	VARIANTS		RANGE OF COM	IPON	NENTS		ASED ON		TEST VEHICLE / S		COMPONEN SIMILAR	IT
NO. 3401/077	01 & 02		Range of contacts: 9 31 – 37 Accepts wires AWG crimping barrel AWG Accepts wires AWG crimping barrel AWG	24 or 24 26 or	2x28 in	MDMA			See test report	MDI	И	
3401/078	01,02,03,04		Nickel or Gold Plated rating for 1 isolated o 24 wire : 3.5A- AWG uninsulated AWG 25 A- AWG 28 wire: 1.5	ontao 26 w solid	ct:- AWG ⁄ire and							
			Working Volage (Ma: Operating Temperatu -55 to +125									
		1						1				
Component Ma C&K Components	anufacturer	2	Location of Mai 2, rue Berthollet	nufac	turing Plant	(s)	3	Date	of original qualification ap	oprova	:	4
			39100 DOLE - Franc	е				Date		piora		
								Certi	ficate Ref No. 290			
ESCC Specifications Maintenance of quali		5	Deviations to LVT tes used:	sting	and Detail S	specificatio	6 on		ification Extension Report ence and date:			7
Generic: 3401	Issue: 5		No 🛛 Yes		(supply d 15)	etails in B	ох		ort n° D210159C (connect ort n° D210161C (contact			
Detail(s): 3401/07 3401/07			Deviation from curren No ⊠ Yes	nt Sp	ecifications: (Supply o	letails)						
												8
Summary of procurer	ment or equivalent	test r	esults during current va	lidity	period in su	pport of th	nis ap	plicatio	on (those to ESCC listed fi	irst)		0
Project Name See appendix	Testing Le	evel	LAT		[Date code			Quantity	Delive	ered	
PID changes since st	art of qualification		9	Cu	rrent PID V	erified by	:		Nouals François , CN	IES		10
None 🗆								N	ame of Excutive Represe	ntative	!	
Minor* ⊠ Major* □ *Provide details in box:						CS-FR036 2 rev H			Date:		13/01/2022	
Major* □	FIOVIDE DELAIIS III	DOX.)1/05/202 ⁻	1		Bale.		10/01/2022	
Current Menufacturin		يربط ام		м	auala Erena				15	/09/20	24	11
Current Manufacturin	g lacilities surveye	a by.			ouals Franç Executive Re	-		or		(Date)	21	
Satisfactory:	Yes 🛛		,	blain						,_4.0)		
Report Reference:	CRIM du 15	5/09/2	1									

	APPLICAT	ON FOR EXTENSION OF E	SCC QUALIFICATION APPROVAL	Page 2
ESCC	Component title:	CONNECTORS, ELECTRI REMOVABLE CRIMP CON	CAL, RECTANGULAR MICROMINIATURE, ITACTS, BASED ON TYPE MDMA	Appl. No.
	Executive Member:	CNES	Date: 13/01/2022	290F
Failure Analysis, DPA, NCCS ava	ailable: Yes	🗆 No 🗵 (Sup	oply data)	12
Ref. No's and purposes:				
The undersigned hereby certifies on behalt that the appropriate documentation has be (except as stated in box 15;) - that the report CNES as the responsible Executive Memb	en evaluated; - that ful orts and data are availa	compliance to all ESCC req	uirements is evidence and therefore applies on behalf of be component(s) listed berein	13
Date: 17/01/2022			JP. BUSSEN (Signature of the Executive	ОТ
Continuation of Boxes above:				14

		4.0			
	FCCC		PLICATION FOR EXTENSION OF ESCC QU		Page 3
Sec.	ESCC	Componen	ttitle: CONNECTORS, ELECTRICAL, REC REMOVABLE CRIMP CONTACTS,		Appl. No.
		Executive N	Member: CNES	Date: 13/01/2022	290F
Non comp	pliance to ESCC requirements:				15
No.:	Specification		Paragraph	Non compliance	
Additional noncompli		mpliance for I	ESCC qualification or rationale for acceptability	r of	16
noncompi					
Executive	Manager Disposition				17
Application	n Approval: Yes 🛛	No 🗆			
Action / R	emarks:				
				Britta Digita	lly signed by
					Schade 2022.01.28
Date:					55 +01'00'
				Schade: Head of the Product A and Safety Department	ssurance



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:

See page 4/6 document D210159C Environnemental Subgroup

		Bubgroup									
Traceability	Nº	Connector Description	C&K Part Number	Date Code	Contact Description / C&K Part Number	Date Code	Termination Type	Wiring	Crimp Tool	Locator	Selector Position
Appendix 3	1.1	MDMA9P-FO 340107701B	C115373-2100C	2105B	9 Contacts Pin 340107803B C331-8754-000H	2105A	Removable Crimp Contacts (9)AWG 24	Applicable	M22520/2-01	CK-MDMA-P	2
Appendix 5	1.1	MDM 9SFR116 340102901B	C115366-8451C	2108A	9 Contacts Skt Tube	1	Straight Pigtail Terminations	Not applicable	1	7	1
Appendix 4	x 4 1.2	MDM 15PFR114 340102901B	C115366-8358C	2109A	15 Contacts Twist Pin	1	Hamess Type AWG 28 cable 390101301B	Not applicable	1	7	1
Appendix 4	1.2	MDMA15S-FO 340107701B	C115373-2103C	2105A	15 Contacts Skt 340107802B C252-8838-000H	2107B	Removable Crimp Contacts (15) AWG 28	Applicable	M22520/2-01	CK-MDMA-S	2
	5 1.3	MDMA21P-FO 340107701B	C115373-2104C	2107A	21 Contacts Pin 340107803B C331-8754-000H	2105A	Removable Crimp Contacts (21)AWG 26	Applicable	M22520/2-01	CK-MDMA-P	2
Appendix 5		13	MDM 21PS 340104103B	C115366-9844C	2107A	21 Contacts Savers	7	Solid Uninsulated AWG 25	Not applicable	/	/
		MDM 21SFR164 340102901B	C115366-9129C	2107A	21 Contacts Skt Tube	1	Solder Bucket contacts	Applicable	s	older Iron with wi	res AWG26
Appendix 6	1.4	MTB1 8PFR116C 340103101B	C115366-1200C	2107A	4 Contacts Twist Pin +2 cavities for guide posts and 2 cavities for epoxy-filled	1	90° Bent PCB Terminations	Not applicable	/	7	1
Арренах о	1.4	340102901B C115366-9129C 2107A 211 contacts Sar Lube / Solidie Bucket contacts MTB1 SPR116C C115366-1200C 2107A 4 Contacts Twist Pin 2 cavities for guide posts and 2 cavities for gency-filled / 90° Bent PCB Terminations MTB1 SSR112 C115366-8589C 2108A 4 Contacts Twist Pin + 2 cavities for guide posts and 2 cavities for gency-filled / Harness Type AWG 26 cable 300101302B	Not applicable	1	7	1					
4	1.5	MTB1 12PFR114 340103102B	C115366-8956C	2108A	7 Contacts Twist Pin + 2 cavities for guide posts and 2 epoxy-filled cavities at either end plus 1 cavity for latching	1	Hamess Type AWG 28 cable 390101301B	Not applicable	1	7	1
Appendix 7	1.5	MTB1 12SFR164 340103102B	C115366-1170C	2107A	7 Contacts Skt Tube + 2 cavities for guide posts and 2 epoxy-filled cavities at either end plus 1 cavity for latching	1	Solder Bucket contacts	Applicable	s	older Iron with wi	res AWG28

Endurance subgroup

Traceability	Nº	Connector Description	C&K Part Number	Date Code	N° of Contacts / Contact Type	Date Code	Termination Type	Wiring	Crimp Tool	Locator	Selector Position
Appendix 8	2.1	MDMA25P-FO 340107701B	C115373-2106C	2105A	25 Contacts Pin 340107803B C331-8754-000H	2105A	Removable Crimp Contacts (25) AWG 24	Applicable	M22520/2-01	CK-MDMA-P	2
Appendix o	2.1	MDM 255FR116 340102901B	C115366-8453C	2107A	25 Contacts Skt Tube	7	Straight Pigtail Terminations	Not applicable	1	7	/
Appendix 9	2.2	MDM 37PFR112A 340102902B	C115366-7010C	2108A	37 Contacts Twist Pin	1	Hamess Type AWG 26 cable 390100256B	Not applicable	I	1	/
Appendix 9	2.2	MDMA37S-FO 340107702B	C115373-2161C	2107A	37 Contacts Skt 340107804B C252-8844-000H	2107B	Removable Crimp Contacts (37)AWG 26	Applicable	M22520/2-01	CK-MDMA-S	2
Appendix 10	22	MTB1 8PFR116C 340103101B	C115366-1200C	2107A	4 Contacts Twist Pin +2 cavities for guide posts and 2 cavities for epoxy-filled	1	90° Bent PCB Terminations	Not applicable	1	7	/
Appendix 10	2.5	MTB1 8SFR112 340103101B	C115366-8589C	2108A	4 Contacts Twist Pin + 2 cavities for guide posts and 2 cavities for epoxy-filled	7	Hamess Type AWG 26 cable 390101302B	Not applicable	I	7	1
Appendix 11	2.4	MTB1 12PFR114 340103102B	C115366-8956C	2108A	7 Contacts Twist Pin + 2 cavities for guide posts and 2 epoxy-filled cavities at either end plus 1 cavity for latching	1	Hamess Type AWG 28 cable 390101301B	Not applicable	1	7	/
Appendix 11	2.4	MTB1 12SFR164 340103102B	C115366-1170C	2107A	7 Contacts Skt Tube + 2 cavities for guide posts and 2 epoxy-filled cavities at either end plus 1 cavity for latching	7	Solder Bucket contacts	Applicable	so	older Iron with wi	res AWG28

Leve	l N°	Contact Type	C&K Part Number	Batch N°	Date Code	Tracability
	1 to 10	CTPIN-MDMA-AWG24 340107803B	C331-8754-000H	256	2105A	Appendix 2
2	1 to 10	CTPINMCR2626AS EQ SAVER 3401	C031-9092-000S3	273	/	Appendix 3
	1 to 10	CTPINMCR2626AS-TWIST	C031-9092-000	21-0214	/	Appendix 4

Detail Specification reference: 3401/077

PLANT NAME AND ADDRESS :	Generic speci	fication number	r:		Test report number :
C & K components SAS.		ification ESCC 3		farch 2018	D210159C
B.P. 359					Test report date :
39105 DOLE CEDEX	Detail specific	ation number :			March 10th 2021
FRANCE		ication ESCC 34	Product :		
101,02				November 2017	Connectors :
	-			December 2019	MDM / MDMA / MTB
		ication ESCC 34			MIDNET MIDNET METB
	-	ication ESCC 34		-	
		ocuments : ECSS		•	
		ocuments : ECSS			
Test or Group	ESCC 3401	Nº Tested	Nº Passed	N° Failed	Remarks
LEVEL 1					
Wiring	\$ 9.10				Appendix 1 pages 1 to 6
- low level contact resistance	\$ 9.1.1.3				Not Applicable Electrical
	-				measurements:chart IV only
Climatic sequence : dry heat	§ 9.13.2				Appendix 1 page 7
 insulation resistance 	§ 9.1.1.1				Appendix 1 page 8
Climatic sequence : damp heat	§ 9.13.3				Appendix 1 page 9
Climatic sequence : cold test	§ 9.13.4				Appendix 1 page 10
Climatic sequence : low air pressure	§ 9.13.5				Appendix 1 page 11
 voltage proof 	§ 9.1.1.2				Appendix 1 page 12
Climatic sequence : damp heat	§ 9.13.6	11	11	U	Appendix 1 page 13
 insulation resistance 	§ 9.1.1.1				Appendix 1 page 14
- voltage proof	§ 9.1.1.2				Appendix 1 page 15
 visual examination 	§ 9.13.7				Appendix 1 page 16
Permanence of marking	§ 9.19				Appendix 1 page 17
Corrosion	§ 9.22				Appendix 1 pages 18 & 19
 visual examination 	§ 9.22				Appendix 1 page 20
Seal test	§ 9.9				Appendix 1 page 21
Plating thickness	§ 9.14				Appendix 1 page 22
LEVEL 2					
Wiring	§ 9.10				Appendix 2 pages 1 to 5
- low level contact resistance	§ 9.1.1.3				Not Applicable Electrical measurements:chart IV only
Rapid change of temperature	§ 9.16				Appendix 2 page 6
- visual examination	\$ 9.16				Appendix 2 page 9
- insulation resistance	\$ 9.1.1.1				Appendix 2 page 7
- voltage proof	\$ 9.1.1.2				Appendix 2 page 8
Contact retention	\$ 9.17				Appendix 2 pages 10 to 13
non-removable contacts	\$ 9.17				
Maintenance aging	\$ 9.27				Appendix 2 pages 14 & 15
removable contacts	\$ 9.27				
- visual examination	\$ 9.27				Appendix 2 page 16
- contact retention	\$ 9.17				Appendix 2 pages 17 & 18
- contact retention - contact insertion and withdrawal forces	\$ 9.27				Appendix 2 pages 19 & 20
Endurance	§ 9.27 § 9.18	8	8	0	Appendix 2 page 21
Initial measurements :	3 9.10				addaman a balla as
- low level contact resistance	§ 9.1.1.3				Appendix 2 pages 24 to 27
- now level contact resistance - mated shell conductivity	-				Appendix 2 pages 24 to 27 Appendix 2 page 30
· · · · · · · · · · · · · · · · · · ·	§ 9.1.1.4 § 9.20				
- mating / unmating forces	§ 9.20				Appendix 2 page 22
Final measurements :	6.0.10				Annualis 2 and 22
- visual examination	§ 9.18				Appendix 2 page 23
- mating / unmating forces	§ 9.20				Appendix 2 page 22
- low level contact resistance drift	§ 9.1.1.3				Appendix 2 pages 24 to 27
 mated shell conductivity 	§ 9.1.1.4				Appendix 2 page 30
 insulation resistance 	§ 9.1.1.1				Appendix 2 pages 28
- voltage proof	§ 9.1.1.2				Appendix 2 pages 29
Seal test	§ 9.9				Appendix 2 page 31
Joint strength	§ 9.15			1	Appendix 2 pages 32 & 33

		APPLICAT	ION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL	Page 6						
<u>e</u>	SCC	Component title:	CONNECTORS, ELECTRICAL, RECTANGULAR MICROMINIATURE, REMOVABLE CRIMP CONTACTS, BASED ON TYPE MDMA	Appl. No.						
		Executive Member:	: CNES Date: 13/01/2022	290F						
NC	TES ON THE COMPL	ETION OF THE APP	PLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL							
ENTRIES Form heading			nt as given in its detail specification or the name of the series, family; - the Exe nber and its sequential suffix.	ecutive Member;						
Box 1	(the ESCC code the detail specified	is recommended to in cation as 'base on'; -	in particular there shall be listed: - the variants or range of variants; - the range dicate the values or values range, the tolerance, the voltage, etc.); the desi - under Test Vehicle enter either an ESCC code or the specific character voltage of coil for a relay); - under component similar enter a cross if relevant	gnation given in ristic capable of						
Box 2; 3 and 4	As per QPL entry	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 th	e report(s) supplied ir	n support of the application.							
Box 8			ent to the full ESCC System, documentation of all of which should already have s of the relevant Generic Specification. An appropriate table has been drawn							
Box 9			alification or after the last Extension of Qualification, adequate details of suc for the changes. Major changes shall be clearly marked.	h evolution shall						
Box 10			date and actual date of verification. The date of verification of the current quired date of extension.	t PID should be						
Box 11	practices, proced	ures, material, etc. use	a physical visit to the plant to confirm that no unexplained changes occur ed in manufacturing the components are as described in the PID. This survey ts of ESCC Basic Specification No. 20200 and its findings shall be recorded.	shall be carried						
Box 12		(s) (NCCS) occurred (any Destructive Physical Analysis (DPA) and Failure Analysis reports during the qualification validity period, stating if established corrective actior							
Box 13	Enter only the na Coordinator.	ame of the Executive	Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the respon	nsible Executive						
Box 14			pand any of the boxes from 1 through 12. Identify box affected and reference n into 14a, 14b, etc. if several boxes have to be expanded.	ce the Box 14 in						
Box 15	Fill in Table as re	quested.								
Box 16			ary by the Executive Member to bring the submitted data to a standard likely d herein or the reason(s) to accept the noncompliance.	/ to be accepted						
Box 17			ns on the application itself, special conditions or restrictions, modifications of shall be entered clearly in Box 19, signed by the representative for ESA, and							
Box 18	Fill in Table as re	quested.								
Box 19	Confidential Deta	ils of PID changes inc	cluding those of a confidential nature, shall be provided.							
Box 20		nce with reference to ally numbered. If relev	o specification(s) and paragraph(s). To simplify reference in Box 16 each r vant state 'None'.	nonconformance						
Box 21			ary by the Executive Member to bring the submitted data to a standard likely d herein or the reason(s) to accept the noncompliance.	to be accepted						