

Component Title: CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE,

Page 1

9	366	Component	BASED ON TYPE MDM Appl. N							).
S. And P. C.	Executive N	cutive Member: CNES Date: 16/09/2019						140Q		
Components (include	ling series and familie	s) submitted for	or Extension	of Qualification	Approval:					1
ESCC COMPONENT NO.	VARIANTS	RAN	NGE OF COM	PONENTS	BASED	)	TEST VEHICLE / S	(	OMPONEN SIMILAR	Г
3401/029	01 & 02		51 Contacts Non removable crimp				MDM	A		
3401/041	01 to 07	3901013 ESCC 3 28: ESC 3901002 1.5A	Terminaison type: AWG 26: ESCC 390101302, ESCC 390100256, ESCC 390101203 2.5 A AWG 28: ESCC 390101301, ESCC 390100261, ESCC 390101202							
3401/032	03, 04, 07 to 17			i Shells ure Range (°C):		_				
					<u> </u>					1 8
Component N	manual and a second	Rue Bei	Location of Manufacturing Plant(s) 3  Rue Bertholet B.P. 359 39105 DOLE Cedex - France				Date of original qualification approval:  Date: 10/10/1986			4
						Certifi	icate Ref No. 140			
ESCC Specification Maintenance of qua Generic: 3401/0	used: No	Selection and the selection of the selec			nce and date: 0 130 14/02/2019 (conf	tact test re	port) D1901:	32		
3401/0 3401/0		No I	⊠ Yes	☐ (Supply	details)					
					3.65			v2 ().		8
Summary of procure Project Name	est results duri	ing current va	alidity period in s	Date code	pplication	n (those to ESCC listed Quant	ity Deliver	ed		
See appendix										
PID changes since	start of qualification		9	Current PID	Verified by:	0.00	Nouals François, CNE	77.70	======================================	10
None □ Minor* ⊠				Ref No:	CS-FR010	Na	ame of Excutive Repre	sentative		
Major* □	*Provide details in b	oox:		Issue:	7 revPN		Dat	e: (	01/09/2019	
				Rev Date:	01/06/2019					11
Current Manufactur	by:				on_		16/09/201	9		
			•	e of Executive R	epresentative)			(Date)		
Satisfactory:	Yes ⊠	No	□ Exp	plain						
Report Reference:	CRIM 104 12/09/2019	10007 du								

	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL					Page 2		
ESCC	COMPONENT title: CONNECTORS, ELECTRICAL, RECTAN BASED ON TYPE MDM			CAL, RECTANGU	ILAR, MICROMINIATURE,	Appl. No.	Appl. No.	
	Executive Member:	CNES		Date	16/09/2019	140Q		
Failure Analysis, DPA, NCCS ava	ilable: Yes	□ No	⊠ (Sup	pply data)			12	
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 rts and data are availa	compliance to	all ESCC req	uirements is evide	ies on behalf of	-()-	13	
Date: 22/09/2019					Po François Vacher		-	
				-	(Signature of the Executive	Coordinator)		
Continuation of Boxes above:		wold -					14	
						·		

P. Sees	ES	CC
Non com	pliance to ESCC	requiremen
No.:		Specification

Component title:

CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, BASED ON TYPE MDM

Appl. No.

Page 3

1	AND AND	Executive Member:	CNES	Date:	16/09/2019	140Q
Non com	pliance to ESCC requirements:					15
No.:	Specification		Paragraph		Non compliance	e
Additiona noncomp	I tasks required to achieve full co	mpliance for ESCC q	ualification or rationale for ac	ceptability of		16
Executive	e Manager Disposition					17
Application / F		No 🗆		S	3.Q	
					Schade: Head of ESA Produ	uct Assurance



CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, BASED ON TYPE MDM Component Title:

CNES Date: 16/09/2019

Page 4 Appl. No. 140Q

18

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:

MDMA21P FO / MDM 21SFR139B	MDMA15P FO / MDM 15PS / MDM 15SFR164A
MDM 37PFR114 / MDMA37S FO	MDMA51P FO / MDM 51SFR116-A174
MDM 9 PFR112 / MDMA9S FO	1000

Executive Member:

Detail Specification reference:

34010029

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	×	ESCC 3401 Para. 9.10	1904	4	0	
	Climatic Sequence	×	ESCC 3401 Para. 9.13	1904	4	0	
	Permanence of Marking	×	ESCC 24800	1904	4	0	
vironm nanica	Corrosion	×	IEC Publication No. 68-2-11	1904	4	0	
Med	Seal Test		ESCC 3401 Para. 9.9				Not applicable
	Plating Thickness	×	ESCC 3401 Para. 5.2.3	1904	4	0	
	Wiring	×	ESCC 3401 Para. 9.10	1904	3	0	
	Rapid change of Temperature	×	ESCC 3401 Para. 9.16	1904	3	0	
	Contact Retention	⊠	ESCC 3401 Para. 9.17	1904	3	0	
Endurance Subgroups	Maintenance Ageing		ESCC 3401 Para. 9.27				Not applicable
ubgr	Endurance	⊠	ESCC 3401 Para. 9.18	1904	3	0	
Jce S	Seal Test		ESCC 3401 Para. 9.9	1904			Not applicable
durai	Joint Stength		ESCC 3401 Para. 9.15				Not applicable
ភ	Engage/Separ. Forces	×	ESCC 3401 Para. 9.28	1904	30	0	
	Oversize Pin Exclusion		ESCC 3401 Para. 9.29				Not applicable
	Probe Damage		IEC Publication No. 512-8				Not applicable
<u>a</u>						-	
Additional Tests							
A.							



CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, BASED ON TYPE MDM Component title:

Executive Member: Date: 16/09/2019 Page 6

Appl. No. 140Q

### 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.