

		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1
		Component Title: CONNECTORS, ELECTRICAL, RECTANGULAR, REMOVABLE CRIMP CONTACTS BASED ON TYPE D'MA		Appl. No.	
Executive Member: CNES		Date: 29/07/2024		156Q	
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
3401/002	01 02	Range of Contacts: Size 20 : 9, 15, 25, 37 and 50 contacts. Range of Contacts: Size 22: 15, 26, 44, 62, and 78 contacts. Mounting Type: Standard mounting holes Blank Floating mount Y Captive nuts. E Rear Grommet, Dust Proof G Floating Mount and Rear Grommet Dust Proof YG Gold-plated non-magnetic coating Operating Temperature Range ("C): - 55 to +125 Complete range as defined in detailed specification is qualified except :- High density 104 contacts arrangement	D*MA	3401 002 01 B DAMA 3401 002 01 B DBMA 3401 002 02 B DEMA 3401 002 02 B DDMA	
3401/005	01 to 08	Contacts: Variants: 01 & 02 Standard bucket for wire size AWG #20 to 24 Variants: 03 & 04 Reduced bucket for wire sizes AWG #26 and 28 Variants: 05 & 06 Large bucket for wire size AWG #18 and 20 Variants: 07 & 08 High density Standard bucket for wire size AWG #22, 24, and 26.		3401 005 01B 3401 005 02B 3401 005 03B 3401 005 04B 3401 005 05B 3401 005 06B 3401 005 07B 3401 005 08B	
3401/020	01 & 02	Connectors Savers – For usage with above connector range		3401 020 01B DBBMA 3401 020 02B DEBMA	
3401/021	01 & 02	Contact Savers – For usage with above connector range		3401 021 01B 3401 021 02B	
Component Manufacturer		Location of Manufacturing Plant(s)		Date of original qualification approval:	
SOURIAU		3 Rue du Vallon 94440 Marolles en Brie FRANCE		Date: 05/08/1988	
				Certificate Ref No. 156	
ESCC Specifications used for Maintenance of qualification testing:		Deviations to LVT testing and Detail Specification used:		Qualification Extension Report reference and date:	
Generic: 3401 Issue: 5		No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15)		PV 8949-23-030 Issue A. 06/09/2024	
Detail(s): 3401/002 Issue: 13		Deviation from current Specifications:			
3401/005 Issue 10		No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)			
3401/020 Issue 10					
3401/021 Issue 5					
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)					
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
See Synthèse Historique ventes SubD in appendix					
PID changes since start of qualification		Current PID Verified by:		F. Nouals, CNES	
None <input type="checkbox"/>				Name of Executive Representative	
Minor* <input checked="" type="checkbox"/>		Ref No: ZQU 92 M 153			
Major* <input type="checkbox"/> *Provide details in box:		Issue: W		Date: 29/07/2024	
19		Rev Date: 19/06/2023			
Current Manufacturing facilities surveyed by:					
		F.Nouals, CNES		on 12/07/2022	
		(Name of Executive Representative)		(Date)	
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference: <u>Compte rendu Visite de Souriau 2022</u>					



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

Ref. No's and purposes:

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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 ofCNES..... as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 18/11/2024

L. FONTAINE, CNES
(Signature of the Executive Coordinator)

Signature numérique
de Fontaine Lya-Cnes
Date: 2024.11.18
15:31:36 +01'00'

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Continuation of Boxes above:



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Non compliance to ESCC requirements:

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No.:	Specification	Paragraph	Non compliance

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

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Executive Manager Disposition

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Application Approval: Yes No

Action / Remarks:

Date:

B. Schade: Head of the Quality Department

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

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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:

D*MA	3401 002 01B DAMA 15PNMBFO	Connecteurs Taille A 15#20	1 couple	1 couple
	3401 002 01B DAMA 15SNMBFO			
	3401 002 01B DBMA 25PNMBFO	Connecteurs Taille B 25#20	1 couple	1 couple
	3401 002 01B DBMA 25SNMBFO			
	3401 002 02B DEMA 15PNMBFO	Connecteurs Taille E 15#22	1 couple	1 couple
3401 002 02B DEMA 15SNMBFO				
	3401 002 02B DDMAG 78PNMB FO	Connecteurs Taille D 78#22	1 couple	1 couple
	3401 002 02B DDMAG 78SNMB FO			

D*BMA Isolant PEEK	3401 020 01B DBBMA 25PSNMBFO	Savers Taille B 25#20	1	1
	3401 020 02B DEBMA 15PSNMBFO	Savers Taille E 15#22	1	1

3401 005 01B / 3401 005 02B	Broche & Douille # 20 Fût normal	10/10
3401 005 03B / 3401 005 04B	Broche & Douille # 20 Fût réduit	10/10
3401 005 05B / 3401 005 06B	Broche & Douille # 20 Fût expansé	10/10
3401 005 07B / 3401 005 08B	Broche & Douille # 22	10/10

Detail Specification reference: 3401/002, 3401/005, 3401/020, 3401/021,

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	2331	8		
	Climatic Sequence	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.13	2331	8		
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC 24800	2331	8		
	Corrosion	<input checked="" type="checkbox"/>	IEC Publication No. 68-2-11	2331	8		
	Seal Test	<input type="checkbox"/>	ESCC 3401 Para. 9.9				NA
	Plating Thickness	<input checked="" type="checkbox"/>	ESCC 3401 Para. 5.2.3	2331	8		
Endurance Subgroups	Wiring	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.10	2331	8		
	Rapid change of Temperature	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.16	2331	8		
	Contact Retention	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.17	2331	8		
	Maintenance Ageing	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.27	2331	8		
	Endurance	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.18	2331	8		
	Seal Test	<input type="checkbox"/>	ESCC 3401 Para. 9.9				NA
	Joint Strength	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.15	2331	8		
	Engage/Separ. Forces	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.28	2331	8		
	Oversize Pin Exclusion	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.29	2331	8		
	Probe Damage	<input checked="" type="checkbox"/>	IEC Publication No. 512-8	2331	8		
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					



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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.