



**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component Title: CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE 26, PCB PIN CONTACT, BASED ON TYPE 8MCG  
 Executive Member: CNES Date: 10/02/2023

Page 1  
 Appl. No. 301F

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

ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3401/081	1 & 2	Shells, variant 01 (glass-fibre reinforced thermoplastic), variant 02(aluminium alloy). Gold Plated Shells.Contacts arrangements 7, 13, 25, 51, 104 contacts.	8MCG	3401 081 01B C13PNMB1A7N 3401 081 01B F25PNMBOL3 3401 081 01B J104PNMBOL3	
3401/082	1 & 2	Contacts terminations OL3 (straight PCB), 1AxN (90° PCB 2.54mm spacing), 1BxN (90° PCB 2.84mm spacing).		3401 082 01B J104SNMB 3401 082 01B C13SNMB 3401 082 02B F25P 3401 082 02B F25S	
3401/083	1 to 4	Contact crimp barrel 24, 26. Accepts wires AWG 24, 26, 28		3401 083 02B et 01B 3401 083 04B et 03B	
3401/084	1 to 62	Operating Temperature Range (°C): -55 to +125		3401 084 03B 3401 084 14B	
3401/088	1 & 2	Shells, variant 01 (glass-fibre reinforced thermoplastic), variant 02(aluminium alloy). Gold Plated Shells.Contacts arrangements 7, 13, 25, 51 contacts.		See box 9	

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: 01/06/2010  Certificate Ref No. 301	4
-----------------------------------	---	---	---	---	---

ESCC Specifications used for Maintenance of qualification testing: Generic: 3401 Issue: 5  Detail(s): 3401/81 Issue: 6 3401/82 8 3401/83 4 3401/84 4 3401/88 1	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: PV8985-21-069 Issue A 25/07/22	7
---	---	--	---	--	---

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

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 Excutive Representative  Ref No: BE-PG-03/08 Issue: J Date: 10/02/2023 Rev Date: 20/01/2023	10
---	---	--	----

Current Manufacturing facilities surveyed by: F. Nouals, CNES on 10/02/2023  
(Name of Executive Representative) (Date)

Satisfactory: Yes  No  Explain

Report Reference: CRIM : Visite Souriau du 12 Juillet 2022



**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component title: **CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE 26, PCB PIN CONTACT, BASED ON TYPE 8MCG**

Executive Member: **CNES**

Date: **10/02/2023**

Page 2

Appl. No.

301F

12

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

Ref. No's and purposes: **2CSOU203 Lack of plating and stripes in matting zone of the connector with gold peeling CLOSED**

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: **10/02/2023**

*G. Quadri*  
**G. QUADRI**

(Signature of the Executive Coordinator)

14

Continuation of Boxes above:

Box 12:  
2CSOU203: all the corrective actions implemented after 8D root causes analysis and the complementary qualification test program were completed.



**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component title: CONNECTORS, ELECTRICAL, RECTANGULAR,  
MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE  
26, PCB PIN CONTACT, BASED ON TYPE 8MCG

Executive Member: CNES

Date: 10/02/2023

Page 3

Appl. No.

301F

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



## APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE 26, PCB PIN CONTACT, BASED ON TYPE 8MCG

Executive Member: CNES

Date: 10/02/2023

Page 4

Appl. No.

301F

## 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:

See page 12 document PV8985-21-069

## 6.1 SPÉCIMENS SOUMIS AUX ESSAIS

Tableau 1 - Echantillonnage

Références	Type	Brochage	Répartition		Accessoires	
			LAT 1	LAT 2	Verrouilleur	Raccord
3401 081 01B C13PNMB1A7N	picots 90° <sup>1</sup>	13 points #26	1 couple Repéré	1 couple Repéré	//	//
3401 082 01B C13SNMB	à sertir		1.1	2.1	//	3401 084 11B
3401 081 01B F25PNMBOL3	picots droits <sup>1</sup>	25 points #26	1 couple Repéré	1 couple Repéré	3401 084 03B	//
3401 082 01B F25SNMB	à sertir		1.2	2.2	//	3401 084 14B
3401 088 01B J104PSNMB	SAVERS <sup>1</sup>	104 points #26	1 couple Repéré	1 couple Repéré	3401 084 96B	//
3401 088 01B H51PSNMB	SAVERS <sup>1</sup>	51 points #26	1 couple Repéré	1 couple Repéré	3401 084 95B	//
3401 082 01B GH51PNMB	à sertir	51 points #26	1 couple Repéré	1 couple Repéré	3401 084 93B	//
3401 082 01B GH51SNMB	à sertir		1.3	2.3	3401 084 07B	//
3401 082 02B F25P	à sertir	25 points# 26	1 couple Repéré	1 couple Repéré	//	3401 084 14B
3401 082 02B F25S	à sertir		1.4	2.4	//	3401 084 14B
3401 081 01B J104PNMBOL3	picots droits <sup>1</sup>	104 points # 26	1 couple Repéré	1 couple Repéré	3401 084 06B	//
3401082 01B J104SNMB*	à sertir		1.5	2.5	//	3401 084 54B

Références	Désignation	quantité
3401 083 02B	Contact Douille Fût # 26-28	10
3401 083 04B	Contact Douille Fût # 24-26	10

Les connecteurs 3401 082 02B J104SNMB\* sont équipés de 50% de contacts à fût #26 (standard) et 50% de contacts à fût #24/28.

Detail Specification reference: [REDACTED]



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	2143	4	0	
	Climatic Sequence	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.13	2212	4	0	
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC 24800	2133	4	0	
	Corrosion	<input checked="" type="checkbox"/>	IEC Publication No. 68-2-11	2145	4	0	
	Seal Test	<input type="checkbox"/>	ESCC 3401 Para. 9.9				NA
	Plating Thickness	<input checked="" type="checkbox"/>	ESCC 3401 Para. 5.2.3	2133	4	0	
Endurance Subgroups	Wiring	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.10	2135	4	0	
	Rapid change of Temperature	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.16	2151	4	0	
	Contact Retention	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.17	2218	4	0	
	Maintenance Ageing	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.27	2145	4	0	
	Endurance	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.18	2217	4	0	
	Seal Test	<input type="checkbox"/>	ESCC 3401 Para. 9.9				NA
	Joint Strength	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.15	2218	4	0	
	Engage/Separ. Forces	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.28	2135	4	0	
	Oversize Pin Exclusion	<input checked="" type="checkbox"/>	ESCC 3401 Para. 9.29	2134	4	0	
	Probe Damage	<input checked="" type="checkbox"/>	IEC Publication No. 512-8	2201	4	0	
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: CONNECTORS, ELECTRICAL, RECTANGULAR,  
MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE  
26, PCB PIN CONTACT, BASED ON TYPE 8MCG  
Executive Member: CNES Date: 10/02/2023

Page 6  
Appl. No.  
301F

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.