



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: Connectors Electrical for Printed Circuit Boards Removable Contacts Crimp Wire-Wrap Solder and Saver, based on type HE801

Executive Member: CNES

Date: 29/03/2022

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

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ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3401 016	01	Shell specifications and sizes: 3401/016	HE801	3401 016 01 B 12 3401 016 01 B 24	
3401 017	01 to 04, 06 to 15, 17 to 19, 21, 22, 64 to 70.	Contact: 3401/017 Crimp, wire-wrap, solder and savers, 1 to 22 and 64 to 70			
		2 rows: 17, 29, 41, 53, 65, 72, 84, 96, 120 contacts 3 rows: 62, 80, 98, 160 contacts Contact Ratings: 5 A (1 contact AWG 22 1.5 A (>31 contacts, AWG 22))			
		Operating Temperature Range (°C): -55 to +125			

Component Manufacturer Smiths Interconnect	2	Location of Manufacturing Plant(s) Smiths Interconnect – Hypertac SPA Via P. D Da Bissone 7A CP 5667 Ufficio Postale Genova 16153 GENOVA SESTRI Italie	3	Date of original qualification approval: Date: 15/11/1982 Certificate Ref No. 99	4
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ESCC Specifications used for Maintenance of qualification testing: Generic: 3401 Issue: 5 Detail(s): 3401016 Issue: 6 3401017 6	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: Doc ,N°334910 ed B, 14 th October 2021 Doc N° 334957 Ed C 06 th December 2021 Vibration an Shock Test Report rev A 06 august 2021 CA0005117_Test_Report.pdf	7
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Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)

8

Project Name	Testing Level	LAT	Date code	Quantity Delivered
See appendix				

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: PID01-001 Issue: A Date: 27/01/2022 Rev Date: 01/10/2021	10
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Current Manufacturing facilities surveyed by: <u>S Hernandez,ESA</u> on <u>27/01/2022</u> (Name of Executive Representative) (Date)	11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain SMITHS answers to the Audit Report are appended Report Reference: <u>SMI-AUD-2022</u>	



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

Ref. No's and purposes:

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: 31/03/2022

JP. BUSSENOT

(Signature of the Executive Coordinator)

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Continuation of Boxes above:

This revision application form includes the test performed for the inclusion of the Genoa manufacturing site into SMITH qualified domain.



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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:

16

Executive Manager Disposition

17

Application Approval: Yes No
Action / Remarks:

Date:

Britta Schade Digitally signed by Britta Schade
Date: 2022.04.28 17:31:45 +02'00'

B. Schade: Head of the Product Assurance and Safety Department



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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:

PART NUMBER	DATE CODE	LOT	SERIAL NUMBER	Qty	SIMILAR TO STYLE
3401 016 01 B 12 MC 342 734	2107	A	/	2	KNC 160
3401 016 01 B 24 FD 362 936	2110	A	/	2	KNC 160

SAMPLING : CONNECTORS

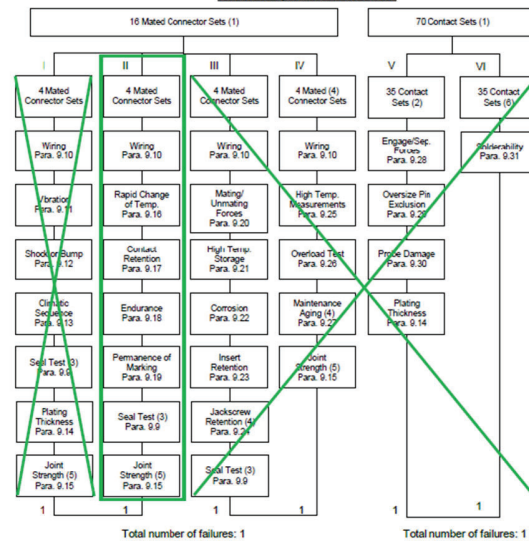
PART NUMBER	DATE CODE	LOT	Qty	SIMILAR TO STYLE	LEVEL
					II
3401 016 01 B 12 MC 342 734	2107	A	1	KNC 160	N° 3
3401 016 01 B 24 FD 362 936	2110	A	1	KNC 160	N° 3
3401 016 01 B 12 MC 342 734	2107	A	1	KNC 160	N° 4
3401 016 01 B 24 FD 362 936	2110	A	1	KNC 160	N° 4



ESCC Generic Specification
No 3401

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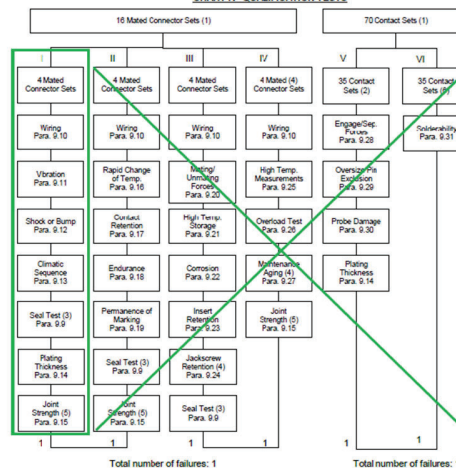
CHART IV.-QUALIFICATION TESTS



ESCC Generic Specification
No 3401

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CHART IV.-QUALIFICATION TESTS



PART NUMBER	DATE CODE	LOT	SERIAL NUMBER	Qty	SIMILAR TO STYLE
3401 016 01 B 12 MC 342 734	2107	A	/	2	KNC 160
3401 016 01 B 24 FD 362 936	2110	A	/	2	KNC 160

SAMPLING : CONNECTORS

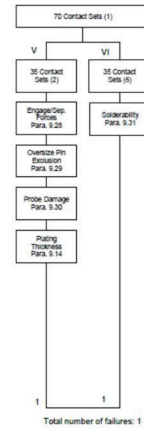
PART NUMBER	DATE CODE	LOT	Qty	SIMILAR TO STYLE	LEVEL
					I
3401 016 01 B 12 MC 342 734	2107	A	1	KNC 160	N° 7
3401 016 01 B 24 FD 362 936	2110	A	1	KNC 160	N° 7
3401 016 01 B 12 MC 342 734	2107	A	1	KNC 160	N° 8
3401 016 01 B 24 FD 362 936	2110	A	1	KNC 160	N° 8

Detail Specification reference: 3401

SAMPLING : CONTACTS

PART NUMBER	DATE CODE	LOT	DESCRIPTION	HYPERTAC LOT	LEVEL
					II
0060412-40PJ9		A	Solder bucket female	ESA45878-0001	As from ESCC 3401
0060422-20PJ9		A	Crimp female	ESA45879-0001	
0060432-30PJ9		A	Solder straight female PCB	42730-0001	ESCC 3401/016
0060592-10PJ9		A	Solder 90° female	ESA45886-0001	ESCC 3401/017
0061082-91PN9		A	Saver male/female	ESA45890-0001	
0060411-40POF		A	Solder bucket male	ESA45878-0001	
0060421-20POF		A	Crimp male	ESA45870-0001	
0060431-30POF		A	Solder straight male PCB	ESA45873-0001	
0060591-10POF		A	Solder 90° male	ESA42975-0001	

This material is conformable to the SP.1057 PID Rev C.



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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.