

		<b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b>			Page 1
		Component Title: CONNECTORS, RF COAXIAL, SOLDER AND CRIMP CONTACTS, MALE, FEMALE ADAPTORS AND CONNECTING PIECES, BASED ON TYPES SMA, SMA 2.92 TNC and SMP Executive Member: German Space Agency at DLR      Date: 29/07/2024			Appl. No.  329 E
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
3402/001 3402/002 3402/003	1 to 10, 12 to 18, 20 to 30, 32 to 35, 37 to 47 1 to 24, 27 to 32, 34, 36 to 51, 53 to 61, 65 to 72 1 to 6, 8 to 14		SMA	32LK40A-600U9-A (no ESCC Variant)	
3402/008 3402/009 3402/010	1 to 7 1 to 3 1 to 5		TNC	06LK42A-500S9-A (no ESCC Variant) 06LK501-K00S9-A (340201004)	
3402/021 3402/022 3402/023	1 to 5, 7 1 to 5 1 to 6		SMA 2.9		
3402/024 3402/025 3402/026	1 to 35 1 to 14 1 to 13		SMP		
Component Manufacturer		Location of Manufacturing Plant(s)		Date of original qualification approval:	
2 Rosenberger Hochfrequenztechnik GmbH & Co. KG		3 Hauptstraße 1 D-83413 Fridolfing Germany		4 Date: 01/12/2013  Certificate Ref No. 329	
ESCC Specifications used for Maintenance of qualification testing:		Deviations to LVT testing and Detail Specification used:		Qualification Extension Report reference and date:	
5 Generic: 3402      Issue: 5, 6 Detail: 002      Issue: 8 Detail: 009      Issue: 4 Detail: 010      Issue: 3		6 No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> (supply details in Box 15) Deviation from current Specifications:  No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> (Supply details)		7 22_2917; Index 0; 02/11/2022 23_1497; Index 0; 02/11/2022 23_2910; Index 0; 15/12/2023	
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	
Confidential: "List of Space Components Order"					
PID changes since start of qualification		Current PID Verified by:		10	
9 None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box: See Annex 2 (Page 5; Confidential Data)		Burak Gökgöz, German Space Agency at DLR Name of Executive Representative Ref No: RAA00081 Issue: 15      Revision: 3.4      Date: 29/07/2024 Rev. Date: 22/01/2024			
Current Manufacturing facilities surveyed by:      B. Gökgöz, German Space Agency at DLR      on      05/03/2024 – 06/03/2024					
(Name of Executive Representative)      (Date)					
Satisfactory:      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference:      ROS-AUD-DLR-2021 Issue 1 28/03/2024					



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

Ref. No's and purposes: NC1DROS401: covers the delay in MoQ due to PID update as requested during audit

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

Burak  
Goekgoez

Digital signiert von Burak Goekgoez  
DN: C=DE, S=Nordrhein-Westfalen, L=Koeln,  
O=Deutsches Zentrum fuer Luft- und  
Raumfahrt e.V. (DLR), SN=Goekgoez, G=  
Burak, CN=Burak Goekgoez  
Grund: Ich bin der Verfasser dieses Dokuments  
Ort: Bonn  
Datum: 2024.07.31 21:11:31+02'00'  
Foxit PDF Editor Version: 13.1.2  
i.A. Burak Gökğöz, DLR

Date: 31/07/2024

(Signature of the Executive Coordinator)

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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 Product Assurance and Safety 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 3402 generic specification; Chart F4 (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

06LK42A-500S9-A	3402 009 (no ESCC variant) Date Code 22/50	Report No. 23_1497
06LK501-K00S9-A	3402 010 (Variant 04) Date Code 23/10	Report No. 23_2910
32LK40A-600U9-A	3402 002 (no ESCC variant) Date Code 22/21	Report No. 22_2917

Detail Specification reference: ESCC 3402/009 Issue 4 / ESCC 3402/010 Issue 3 / ESCC 3402/002 Issue 8

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
<b>PERIODIC TESTING</b>	Mating and Unmating Forces	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.11	23/10	4	0	
	Random Vibration	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.15	23/10	4	0	
	Mechanical Shock	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.16	23/10	4	0	
	Temperature Cycling	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.8	23/10	4	0	
	Termal Stability of Insertion Loss	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.17	23/10	4	0	
	Shielding Effectiveness	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.18	23/10	4	0	
	Electrical Measurements at Room Temperature	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.9.9	23/10	4	0	
	Endurance	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.19	23/10	4	0	
	Seal	<input type="checkbox"/>	ESCC 3402, Para. 8.13				Only applicable to hermetically sealed, barrier-sealed or panel-sealed components.
	Coupling Torque Proof	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.10	23/10	4	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC 3402, Para. 8.14	23/10	4	0	
	Destructive Physical Analysis	<input type="checkbox"/>	ESCC 3402, Para. 8.20				Not required for Periodic Testing for extension of qualification. Required only for Qualification Testing and for Periodic Testing for renewal of qualification after lapse.

**REMARKS:**

06LK501-K00S9-A: Periodic Testing for extension of qualification according to ESCC 3402, chart F4  
 06LK42A-500S9-A and 32LK40A-600U9-A: Lot Validation Testing according to ESCC 3402, chart F4





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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.