		APPL	ICATION FO	R ESCC C	QUALIFIC	ATION A	PPROVAL		Page 1	1
E	SCC	. c		BLE CABL			CTORS, LOW POWER , BASED ON TYPE	R, 50	Appl. No	0.
		Executive Member:	CNES				Date: 12/05/202	22	383	
Components (includin	g series and families) s	ubmitted for Qualification	on Approval							1
ESCC COMPONENT. NO.	VARIANTS	RANGE OF CO	MPONENTS		BASED ON		TEST VEHICLE / S		MPONEN SIMILAR	т
3408/004	01,02,03	Frequency range D	C-32GHz		2 mm nector ty		3408004 02 01000 0			
		Straight and swept of for flexible Ø4.4mm								
		VSWR max Integrat is qualified up to 30		le						
		Temperature range: +125°C	-55°C to							
Component Ma Axon Cable SA	nufacturer 2	Location of M Route de Chalon 51	Manufacturing 210 Montmira		3	ES Generic: Issue Detail/s: Issue	2	for Qualifi	cation	4
Qualification Report R	eference and date:		5	PID used f	for manufa		Qualification Lot			6
	ON Test Report N°4764 and 5, PV476A-APPEN									
Date: 23/12/20		IDIX 1 (0 21,		Ref No: Issue: 1	CNE 1	ES-PID-19	9-Axon'			
Dute. Lorizie	- 1			Date:		02/2021				
PID changes since sta	nt of qualification	7	Current PIC	Verified	by		lane, CNES			8
None 🗆 Minor* 🛛			Ref No:				f Executive Represent PID-19-Axon'	ative		
	* Details not published,	provided in	Issue:			2	10-10-7401			
	confidential annex 2.)		Date			19/05/20	022			
Current Manufacturing	facilities surveyed by:									9
	J-B Sauveplane, CNES		26/11/2019	9						
(Name of Executive Re	esponsible)		(Date)							
Audit Report AXOCOM	1-AUD-2019									
Report Ref	erence									
Satisfactory:	Yes 🛛	No 🗆 Ex	plain CN	IES line vi	sit perforn	med on 17	7/05/2022 with no addit	tional point	s to raise	
Quality and Reliability	Data								L	10
Evaluation testing perf	ormed Yes 🖂	No 🗆		Failure availab		DPA, NC	CS Yes	🛛 No		
Report Ref. No.: P	V3961A	Date: 31/0	1/2018	(supply	/ data)					
Equivalent Data:	TEST REPORT N°443	38, ISSUE C, 4/10/202	0							
Cadification										
Certification:										
Centrication.				Ref No	s. and pu	rpose:				
Centrication.							PA, issue 1, 15/02/202	2		

	AP	PLICATION FOR ESCO	QUALIFICATION APPRO	VAL	Page 2	
ESCC	Component Title:		LY, 2.92MM CONNECTOR BLE, DC TO 32 GHZ, BASE		Appl. No.	
	Executive Member:	CNES	Da	te: 12/05/2022	383	
The undersigned hereby certifies on behalf that the appropriate documentation has be except as stated in box 13; that the reports given to the component(s) listed herein. Date: 19/05/2022	en evaluated; that full	compliance to all ESCC	requirements is evidence and therefore applies for E	у́эмольler (Giandrea Quadri, CNR	is to be	11
	111 A		(Sign	ature of the Executive	Coordinator)	
Continuation of Boxes above: (Only non-co	onfidential comments)					12

Box 10: Additional data collected before to start the qualification campaign, tests performed on the basis of the ESCC 3408 issue 2 Box 7: PID updated to be in compliance with the issue 3 of the ESCC 3408

		A	PLICATION FOR ESCC QUALIFICA	TION APPROVAL	Page 3
Contra Contra	ESCC	Component Title:	RF CABLE ASSEMBLY, 2.92MM C OHMS, FLEXIBLE CABLE, DC TO 3 AXOWAVE 44SLQ	CONNECTORS, LOW POWER, 50 32 GHZ, BASED ON TYPE	Appl. No.
	1. 2	Executive Member:		Date: 12/05/2022	383
Non complia	ance to ESCC requirements:				13
No.:	Specification		Paragraph	Non compliance	
Additional ta noncompliar	isks required to achieve full con ice:	npliance for ESCC qu	alification or rationale for acceptability	of	14
Executive M	anager Disposition				15
Application A Action / Rem		No 🗆			
				7 D 1	
Date:				B. Schade: Head of the Product A and Safety Departmen	

	AP	PLICATION FOR ESCC QUALIFICATION API	PROVAL		Page 4	
ESCC	Component Title: RF CABLE ASSEMBLY, 2.92MM CONNECTORS, LOW POWER, 50 OHMS, FLEXIBLE CABLE, DC TO 32 GHZ, BASED ON TYPE AXOWAVE 44SLQ					D .
	Executive Member:	CNES	Date:	12/05/2022	383	
ANNEX 1: LIST OF TESTS DONE TO SUF	PORT QUALIFICATION	ON				16
Tests conducted in compliance with:						
 ESCC 3408 generic specificatio Or PID-TFD 	on; Chart F4 (for ESC (for ESCC/QML					

Tests vehicle identification/description:

3408004 02 01000 0 P862482B QM 1 to 5	3408004 02 01000 0 P860226 S/N 1 to 10

Detail Specification reference: ESCC 3408/004

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Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
	Shielding Effectiveness		IEC Publication No. 61726	2123	4	0	
	Cable Retention Force		As specified in Detail Specification	2123	3	0	
-	Ageing	\boxtimes	MIL-STD-202 Test Method 108	2123	3	0	
	Mating Endurance	\boxtimes	ESCC Generic Specification No. 3402	2123	3	0	
	Bending	\boxtimes	As specified in Detail Specification	2123	3	0	
	Vibration (Random and Sine)	\boxtimes	MIL-STD-202 Test Method 214 & 204	2123	3	0	
	Thermal Stability of Insertion Loss	\boxtimes	As specified in Detail Specification	2123	3	0	
	Temperature Cycling II (200 cycles)		As specified in Detail Specification	2123	3	0	
s 1	Thermal Stability of Insertion Loss	\boxtimes	As specified in Detail Specification	2123	3	0	
Column 1 6 TVs	Ageing		MIL-STD-202 Test Method 108				Not applicable for low power C.A. (similarity with ESCC 34008/003, see certificate 365
	Vibration (Random and Sine)		MIL-STD-202 Test Method 214 & 204				Not applicable for low power C.A. (similarity with ESCC 34008/003, see certificate 365
	Temperature Cycling I (25 cycles)		As specified in Detail Specification				Not applicable for low power C.A. (similarity with ESCC 34008/003, see certificate 365
	Corona		As specified in Detail Specification				Not applicable for low power C.A. (similarity with ESCC 34008/003, see certificate 365
	RF Power Handling		As specified in Detail Specification				Not applicable for low power C.A. (similarity with ESCC 34008/003, see certificate 365
	Multipaction		ECSS-E-20-01				Not applicable for low power C.A. (similarity with ESCC 34008/003, see certificate 365
	RF Power Cycling		As specified in Detail Specification				Not applicable for low power C.A. (similarity with ESCC 34008/003, see certificate 363

S Effe	hielding ectiveness	IEC Publication No. 61726	2123	3	0	
						ii.
· ·						

and and a	ESCC	Comp	APPLICATION FOR	R ESCC QUALI	FICATION	APPROVAL		Page 5 Appl. No.
		Execu	Executive Member:		Date:			383
Chart F4	Test	Tick when done	when Conditions		Date Code Tested No. Qty Rejer			not performed. on Rejection
	Electrical Measurements at Room, High and Low Temperatures		As specified in Detail Specification	2123	3	0		
Column 1 6 TVs	External Visual Inspection	\boxtimes	ESCC Basic Specification No. 20500	2123	3	0		
	Radiographic Inspection		ESCC Basic Specification No. 20900	2123	3	o		
	Destructive Physical Analysis	sical ESCC Basic Specification No. 21001		2123	2	0		
Column 3 1 TV	Radiation		As specified in Detail Specification				A02-Axon' Ed.	SCC3408003 d (see certificat port 11012-QTI 1, rev.1), one for dielectric ion purpose (se
	Permanence of Marking		ESCC Basic Specification No. 24800	2123	1	0		
4 V	Mating and Unmating Forces		ESCC Generic Specification No. 3402	2123	1	0		
Column 4 1 TV	Coupling Proof Torque		ESCC Generic Specification No. 3402	2123	1	0		
	Crimp Contact Tensile Strength		ECSS-Q-ST-70-26				Not applicable	
ional sts	Radiation		Till 20 MRad with intermediate steps at 1, 3, 6, 10 Mrad	2036	9	0		
Additional Tests								

	an alta anta	AP	PLICATION FOR ESCC QUALIFIC	CATION APPROVAL	Page 6	
	ESCC	Component Title:	RF CABLE ASSEMBLY, 2.92MM OHMS, FLEXIBLE CABLE, DC TO AXOWAVE 44SLQ	I CONNECTORS, LOW POWER, 50 D 32 GHZ, BASED ON TYPE	Appl. No.	
N/ Participa	A CONTRACTOR OF A	Executive Member:	CNES	Date: 12/05/2022	C215	
ANNEX 2	: CONFIDENTIAL DATA					
PID chang	ges details					17
None						
Minor						
Major						
Noncompl	liance to ESCC requirements:				1	18
No.:	Specification		Paragraph	Non compliance		
Additional noncomplia	tasks required to achieve full con ance:	npliance for ESCC qua	lification or rationale for acceptabilit	y of	1	19
Additional (Comments				20	0

	APPLICATION FOR ESCC QUALIFICATION APPROVAL Pag	je 7
E E	SCCC Component Title: RF CABLE ASSEMBLY, 2.92MM CONNECTORS, LOW POWER, 50 OHMS, FLEXIBLE CABLE, DC TO 32 GHZ, BASED ON TYPE AXOWAVE 44SLQ	. No.
	Executive Member: CNES Date: 12/05/2022 38:	3
	NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION APPROVAL	
ENTRIES		
Form Heading	shall indicate:— the title of the component as given in its detail specification or the name of the series or family; — the enterin date; — the serial number and the suffix of the form.	ng
Box 1	shall provide details given in table; in particular there shall be listed - the variants or range of variants; the range of componer by using the ESCC code for values tolerances, etc.; the designation given in detail specification as 'based on';under Test Vehicle enter either a cross or the specific characteristic capable to identify the component tested; under component simil enter a cross.	
Box 2 and 3	Manufacturer's name and location of plant where the components were manufactured and tested.	
Box 4	Generic and detail specifications used during qualification program.	
Box 5	Reference to test report(s) submitted in support of application.	
Box 6	Enter details to identify the PID that was applicable at the time the qualification lot was manufactured.	
Box 7	If the PID was evolved after qualification lot manufacture, adequate details of such evolution shall be provided together with reasons for changes. Major changes shall be clearly marked.	
Box 8	The box serves to identify the current PID and the Executive Representative that has verified it together with the date of this occurrence.	
Box 9	This box can be completed only after a physical visit to the plant to confirm that the practices, procedures, materials, etc. use 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.	ed
Box 10	Details entered shall be sufficient to evidence that an evaluation program according to ESCC Basic Specification No. 22600 has been performed and that the results thereof are summarized in the survey and test reports. If the evaluation program ha not been carried out according to established ESCC documents, the applicant Executive Representative shall provide alternative data and declare its assessed degree of satisfactory compliance with the ESCC basic requirements. Reference s be made to the reports on Destructive Physical Analysis (DPA), Failure Analysis and Non conformance (NCCS) issued durin the Evaluation and/or Qualification Phase.	is shall
Box 11	Enter the name of the Executive Coordinator and the signature.	
Box 12	To be used when there is a need to expand any of the boxes from 1 through 10. Identify box affected and reference the Box in the relevant Box. Box 12 can be broken into 12a, 12b, etc. if several Boxes have to be expanded.	12
Box 13	Fill table as requested.	
	Fill in any additional tasks required to achieve full compliance.	
Box 14		
Box 14 Box 15	All Executive recommendations on the application itself, special conditions or restrictions, modifications of the QPL or ESCO QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 15, signed by the ESA Representative.	C
	All Executive recommendations on the application itself, special conditions or restrictions, modifications of the QPL or ESCO QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 15, signed by the ESA Representative. Fill in Table as requested.	c
Box 15	QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 15, signed by the ESA Representative.	
Box 15 Box 16	QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 15, signed by the ESA Representative. Fill in Table as requested.	C
Box 15 Box 16 Box 17	QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 15, signed by the ESA Representative. Fill in Table as requested. Confidential details of PID changes shall be provided. State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 18 each	