		<b>APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL</b>			Page 1
		Component Title: Optical Fiber Cable Assemblies based on type Mini Avim Executive Member: ESA Date: 16.02.2024			Appl. No. 355B
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
3420/001	01	Patchcord Mini AVIM on fiber SM.15-P-8/125-UV/UV-400	PM fiber 8/125/400 at 1310/1550nm	34200101-01P-M8P-M8P-6000	
3420/001	02	Mating Adapter Mini AVIM™	5219572	342000102	
Component Manufacturer Diamond SA		Location of Manufacturing Plant(s) Via dei Patrizi 5 CH-6616 Losone		Date of original qualification approval: Date: 30/10/2018  Certificate Ref No. 355	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3420 Issue: 1  Detail(s): 3420/001 Issue 4 :		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)		Qualification Extension Report reference and date: STS0333 Laboratory, Report 3825, Report 3825a 25.01.2024	
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	
		LAT0014	29.03.2023	1 pce	
		LAT0015	29.03.2023	1 pce	
		LAT0024	31.08.2022	1 pce	
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/>			Current PID Verified by: <u>D. Lacombe, ESA</u> Name of Executive Representative  Ref No: PID_3420001 Issue: 02 Date: 20/02/2024 Rev Date:		
*Provide details in box: 2.1 Company organization 4.1.7 Epoxy 6.2 MoQ planning					
Current Manufacturing facilities surveyed by: <u>S. Hernandez, ESA</u> on <u>13/12/2017</u> (Name of Executive Representative)					
Satisfactory: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Explain					
Report Reference: <u>ESCC-AUD-DIAM2017-1</u>					



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Failure Analysis, DPA, NCCS available: Yes  No  19.01.2024

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Ref. No's and purposes: NCCS 2EDAM201, non-conformity in fiber protrusion  
NCCS 2EDAM301, delay in the qualification process

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

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Date: 26/02/2024

Denis  
Lacombe

Digitally signed by  
Denis Lacombe  
Date: 2024.02.28  
16:19:44 +01'00'

(Signature of the Executive Coordinator)

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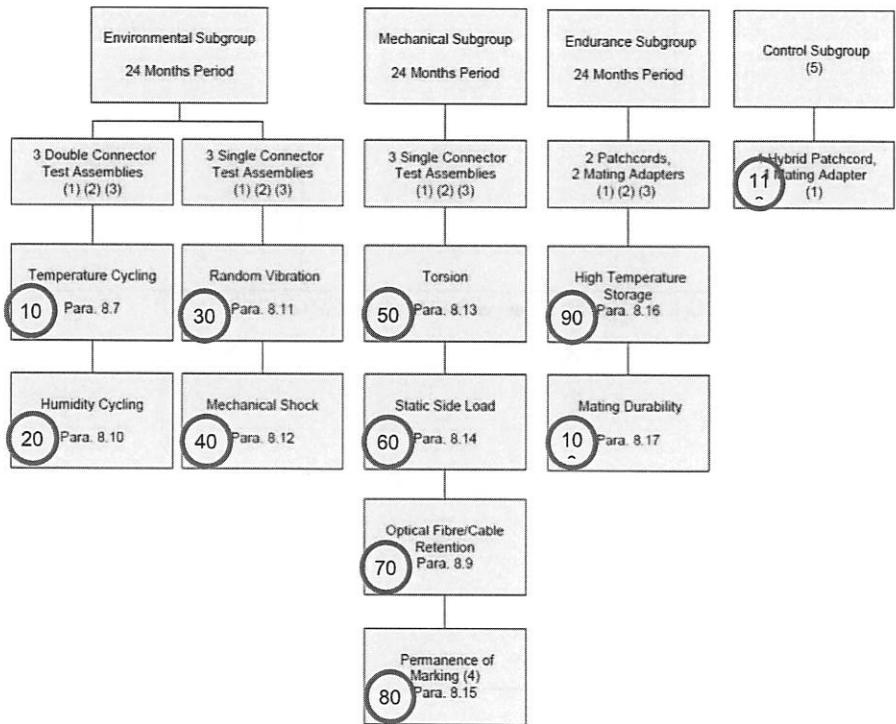
**ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION**

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Tests conducted in compliance with:

ESCC 3420 generic specification; Chart F4 and ESCC Detail 3420/001 issue 4.

Tests vehicle identification/description:



**Quantity of component for Qualification - Length of fiber**

<b>SCTA</b>				
Single connector test assembly	2 HP		1 MA	
<b>DCTA</b>				
Double connector test assembly	2 HP	1 P	2 MA	

Subgroup	Hybrid Patchcords	Patchcords	Mating adapter	SM CG Patchcord
Environmental	12	3	9	2
Mechanical	6		3	
Endurance		2	2	1
Control	1		1	
<b>Total</b>	<b>19</b>	<b>5</b>	<b>15</b>	<b>3</b>

Detail Specification reference:

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental Subgroup 24 Month Period	Temperature Cycling	<input checked="" type="checkbox"/>	IEC 61300-2-22	25.01.2024	15	0	
	Humidity Cycling	<input checked="" type="checkbox"/>	IEC 61300-2-46	25.01.2024	15	0	
	Random Vibration	<input checked="" type="checkbox"/>	IEC 60068-2-64	25.01.2024	9	0	
	Mechanical Shock	<input checked="" type="checkbox"/>	IEC 60068-2-27	25.01.2024	9	0	
Mechanical Subgroup 24 Months Period	Torsion	<input checked="" type="checkbox"/>	IEC 61300-2-5	25.01.2024	9	0	
	Static Slide Load	<input checked="" type="checkbox"/>	IEC 61300-2-42	25.01.2024	9	0	
	Optical Fibre/Cable Retention	<input checked="" type="checkbox"/>	IEC 61300-2-4	25.01.2024	9	0	
	Permanence of Marking	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 24800	25.01.2024	2	0	
Endurance Subgroup 24 Months Period	High Temperature Storage	<input checked="" type="checkbox"/>	IEC 61300-2-18	25.01.2024	4	0	
	Mating Durability	<input checked="" type="checkbox"/>	IEC 61300-2-2	25.01.2024	4	0	
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.