

Component Title: Optical Fiber Cable Assemblies based on type Mini Avim

Page 1
Appl. No.

Executive Member: ESA Date: 27.06.2025

355C

									3330	,
Components (includ	ing series and families	s) submitted	for Extension	of Qualification	Approval:				·	1
ESCC COMPONENT			RANGE OF COMPONENTS			BASED ON		TEST VEHICLE / S	COMPONEN SIMILAR	1T
3420/001	01		Patchcord Mini AVIM or PM15-U25D-10.5/125/2		5222622			342001 01-01P-M8P- M8P-6000		
3420/001	02		Adapter Mini		522262	5222623		342000102		
Component Manufacturer 2 Diamond SA		Via de	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				
	<u> </u>	5				6				7
ESCC Specifications Maintenance of qua	lification testing:	used:		sting and Detail			Qualification Extension Report reference and date:			
Generic: 3420	Issue: 2	No	⊠ Yes	15)	details in B	ΟX	STS0333 Laboratory, Report 3918, Report 3918a 27.06.2025			
Detail(s): 3420/00	01 Issue 5 :	Deviat	Deviation from current Specifications:							
		No	⊠ Yes	☐ (Supply	details)					
0 (				P. P				(1) 1 5000 11 1 15		8
Project Name	Testing Leve		LAT	alidity period in s	Date code		plicatio	n (those to ESCC listed fi Quantity	Delivered	
PID changes since s	start of qualification		9	Current <b>PID</b>	Verified by:	:		ESA		10
None							N	ame of Excutive Represe	ntative	
Minor* ⊠ Major* □	*Dravida dataila in h			Ref No: Issue:	PID_34200	001		Date:	16/06/2025	
Major* □	*Provide details in both 4.1 DMI ring P/N 4.4 New flange for for 5.1.1 QCC control (in 5.1.2 QCC control (in 5.1.3 QCC control (in 5.1.4 Process for Postal 1.4	nigh power ( pos. 40) pos. 40) pos. 20) st Mating ac reening PSt	lapter	Rev Date:				Dale.	10/00/2023	
Current Manufacturi	ng facilities surveyed l	υν.		ESA			on			11
Odirent Manufacturi	ng laomico surveyea i		(Name	e of Executive R	tepresentati	ive)			0/08/2024	
Satisfactory:	Yes ⊠	No	□ Exp	plain						
Report Reference:	ESA-TECQES-	RP-2024-00	)2724							



Component title: Optical Fiber Cable Assemblies based on type Mini Avim

Executive Member: ESA Date:27.06.2025

Page 2 Appl. No.

355C 12 Failure Analysis, DPA, NCCS available: Yes No  $\boxtimes$ 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 ESA as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein. Digitally signed by Denis Denis Lacombe Date: Date: 2025.08.04 Lacombe (Signature of the Executive Coordinator) 16:10:07 +02'00' 14 Continuation of Boxes above:



Component title: Optical Fiber Cable Assemblies based on type Mini Avim

Executive Member: ESA Date: 26-07-2025

Page 3
Appl. No.

355C

	15	5
on compliance to ESCC_requirements:		_

Non comp	liance to ESCC_requirements:			
No.:	Specification	Paragraph	Non compliance	
Additional	tacks required to achieve full compliance for	 ESCC qualification or rationale for acceptability	l of	
noncompli	ance:	LOGO qualification of rationale for acceptability	OI .	16
Executive	Manager Disposition			17
Application	n Approval: Yes X No 🗆			
Action / Re				
			Al: Talch	
Date:	30 August 2025			
			<ul> <li>A. Zadeh: Head of the Avionics and EE Electronics Division</li> </ul>	ΞE
			=	



Component Title: Optical Fiber Cable Assemblies based on type Mini Avim

Executive Member: ESA Date:

Page 4

Appl. No.

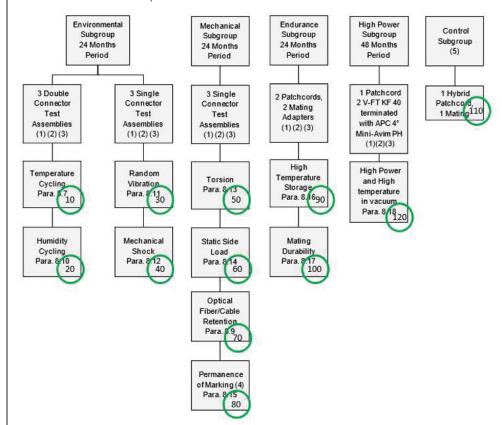
18

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

Tests conducted in compliance with:

ESCC 3420 generic specification issue 2; Chart F4 and ESCC Detail 3420/001 issue 5.

Tests vehicle identification/description:



# Quantity of component for Qualification - Length of fiber

SCTA Single connectest assemb			1 MA	
DCTA  Double conne  test assemb		1 P	2 MA	<del>-</del>
	Hybrid Patchcord	Patchcord	Mating adapter	Hybrid Patchrd VF
Subgroup	<del></del>		ф	<del></del>
Environmental	12	3	9	
Mechanical	6		3	
Endurance		2	2	

1

1

1

Detail Specification reference:

Control

High power

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejec ts	Comments if not performed. Comments on Rejection
Environmental Subgroup 24 Month Period	Temperature Cycling	$\boxtimes$	IEC 61300-2-22	27.06.2025	15	0	
	Humidity Cycling	$\boxtimes$	IEC 61300-2-46	27.06.2025	15	0	
	Random Vibration	$\boxtimes$	IEC 60068-2-64	27.06.2025	9	0	
Er 24	Mechanical Shock	$\boxtimes$	IEC 60068-2-27	27.06.2025	9	0	
roup	Torsion	$\boxtimes$	IEC 61300-2-5	27.06.2025	9	0	
Mechanical Subgroup 24 Months Period	Static Slide Load	$\boxtimes$	IEC 61300-2-42	27.06.2025	9	0	
	Optical Fibre/Cable Retention		IEC 61300-2-4	27.06.2025	9	0	
	Permanence of Marking	$\boxtimes$	ESCC Basic Specification No. 24800	27.06.2025	2	0	
Endurance Subgroup 24 Months Period	High Temperature Storage	$\boxtimes$	IEC 61300-2-18	27.06.2025	4	0	
Endur Subg 24 Mc	Mating Durability	$\boxtimes$	IEC 61300-2-2	27.06.2025	4	0	
Additional Tests							



Component title: Optical Fiber Cable Assemblies based on type Mini Avim

**Executive Member:** FSA Date: Page 76

Appl. No. 355B

#### NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

ITD	EC

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.

Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests Box 5

reported were performed. If the specifications are different from those current on the date of the application, see Box 6.

Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of Box 6

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.

If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall Box 9

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.

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 Box 11

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