DATE. Mar. 27, 2024

No. SPPU-10383(7)

Messrs. FOV

SPECIFICATION

FOR

HERMETIC SFF FIBER ARRAY ASSEMBLY WITH BOOT (ALLOY 50 FERRULE)

(ACACIA)

Fujikura	internal information	
提出仕様書No. Fujikura Specification (Proposed to custome	I GUSTOMER Specification No. 1	
Refer to Table1	Refer to Table1	
In the absence of Fujikur	☑️を入れること。(空欄にしない) ra/Customer specifications, fill an column. (Don't leave the column blank.)

Prepared by T. Nakane

Approved by H. Hishikawa

Fiber Optics Components Department Optical Component Division Manager, Fiber Optics Components Department Optical Component Division

Fujikura Ltd.

General

1.1 Products Covered by this Specification This specification covers Optical fiber array assembly for Acacia Communications.

1.2 Product Name and Part Number

Table1

	Product name	Fujikura Specification no.	Acacia Specificaton No.	Sanmina Part no.
1	HERMETIC SFF FIBER ARRAY ASSEMBLY WITH BOOT (ALLOY 50 FERRULE)	PNJHI-0485-64-09	820-0005-03 Rev. B※	LFACM820-0005-03

**Although the version was revised from A to B before the last buy (laser printing on the boot, size change on the array pats), it was approved by cutomer that it would be manufactured in accordance with PNJHI-0485-64-09.

1.3 Drawing for manufacturing

DRAS-12911/PNJHI-0485-72-01 (Latest version)

2. Bill of materials

Table 2

No.	Name of Part	(Type), Drawing No.	Maker/Supp	Q' ty	Remarks
		Specification No.	lier		
1	LC connector(SM)	LC Metal Flange Kit, BTW,	Adamant	2	UPC polish
		K-04-0033-0A,			Boot: Santoprene, white
		PNJHY-0048-22-134(latest			Cap: Housing cap, white
		version)			Zr capillary included
2	LC connector(PM)	LC Connector (P)	-	(1 set)	UPC polish
		CPAI1-006I			Except dust cap
2–1		Plug Frame LC(HPY)	Pronics	1 pc	Blue
		CPA12-024D	Vietnam		
2-2		Ferrule Unit LC(P)B	Yuwa	1 pc	Adamant zirconia
		CPAI2-036E	Vietnam		capillary
2-3		LC Extender Cap	Pronics	1 pc	Blue
		CPA12-026E	Vietnam		
2-4		LC BTW Buffer Adapter	Pronics	1 pc	Santoprene, white
		CPA12-027E	Vietnam		
2-5		Spring LCP	Jyohoku	1 pc	-
		CPAI2-030A	Spring		
			Saigon		
2-6		Dust Cap	Adamant	1 pc	Housing cap, PP, White
		C-09-1500-05			
3	Fiber (PM)	BISM15-PX-U25D-H	Fujikura	1. 25m	
					Coating: Natural

4	Fiber (SM)	ClearCurve ZBL GCS	Corning	2. 50m	Corning Clearcurve—ZBL(200kpsi) O.25mm Coating: Natural
5	3c V-groove	3CH FIBER ARRAY V-GROOVE ORN JFD-M-11-049, PNJHY-0145-71-01 /DRPT-10953 (Latest version)	Yamanashi	1	Angled polish, 8deg
6	3c Cover	3CH FIBER ARRAY COVER ORN, JFD-M-11-048, PNJHY-0145-71-02 (Latest version)	Yamanashi	1	
7	Glass preform	OD1. 118, IDO. 80x0. 26, t0. 8, DM2700PF ROCP44-10-31	Namics	2	-
8	Alloy50 ferrule	CPAS2-507A4	Micro-cut	1	1.27um Gold plating
9	Loose tube(SM, PM) (Connector side)	φ 0.5 × 0.9 Hytrel 6356 HYTREL TUBE 6356 [0.5 × 0.9 NA] (NIREI), PNJHY-0102-24 -02(latest version)	Nirei kogyo	0. 045m x3	Color: Natural Connector side
10	Boot	810-0088-03 Rev. A	W&B Technology	1	-
11	Adhesive	Epotek 353ND	Epoxy technologi es	-	-
12	Adhesive	Bond Quick 5 A+B (80g/set)	Konishi	0.05gr	Filler between loose tube and fiber
13	UV Adhesive	World Rock 8776NL5F	Kyoritsu kagaku sango	0.005gr	Glass array assembly
14	UV Adhesive	UV resin U-2003F (250GM/BT)	Utsu	0.015gr	-
15	UV Adhesive	Optocast 3410		0.003gr	-
16	UV Adhesive	World Rock 8700-7 (5GM/Tube)	Fujikura	0.005gr	-
17	Paint marker	Edding 750 (Red)		=	Marking on PM fiber
18	Paint marker	Edding 750 (Back)		=	Marking on SM fiber
19	Package	Fiber Package Tray & Cover	FOV domestic purchase	0. 2	5pcs of product/tray Base: Black Cover: Clear
20	Pink sponge (W30xL365xH15mm)	INOAC EAS-3	FOV domestic purchase	0. 2	To prevent fiber and connector movement during transportation, Length of sponge should be the same as inner width of tray

21	Pink sponge (W10xL16xH12mm)	INOAC EAS-3	FOV domestic purchase	5	To hold fiber and connector on tray, Dimensions should be adjusted to fit groove of tray
22	Pink Sponge slit (12x5x311x12mm)	Sponge slit type(with adhesive tape, 20 slits)(CPAS2-118B4), or equivalent	FOV domestic purchase	0. 2	FOV domestic purchase
23	Adhesive	TB3170B	ThreeBond	0.004gr	For temporary boding of PANDA LC connector ferrule
24	Label	Self Laminate TT327 1''x1.5'' 1 Across White label (25.4x38.1mm) (IDL-001IN-1)		1	
25	Clean Label	Brady B694, 70x20mm		0. 2	

3. Product Specification

Table 3

Item	SPEC
Appearance	Refer to RQAP-00005(latest version)
Appearance of Glass	DRAS-12911/PNJHI-0485-72-01(latest version)
Array	No crack at stress applying parts
Appearance of	DRAS-12911/PNJHI-0485-72-01(latest version)
Connector endface	No crack at stress applying parts
Dimensions	DRAS-12911/PNJHI-0485-72-01(latest version)
Connector Fiber	−50 ~ +50 nm
height	
Connector Radius of	7 to 25mm :LC connector
curvature	
Connector Apex offset	\leq 50 μ m
Connector B dimension	10.3 to 10.5mm :LC connector
Connector Ferrule	0.6 to 0.85mm :LC ferrule
endface diameter	
Polarization	>20dB ,Wave length 1550nm
Extinction Ratio	
(-Polarization cross	Insert light to the glass array
talk)	
Insertion loss	≦0.5dB, Wave length 1550nm
Return loss	≥50dB, Wave length 1550nm

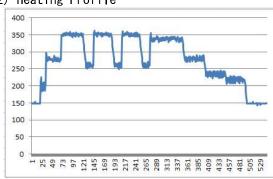
4. Glass Sealing

1) Ferrule & Glass preform

CPAS2-507A4 (NS-1) : Alloy50

Glass Preform: DM2700PF ROCP44-10-31, 2pcs

2) Heating Profile



Step	1	2	3	4	5	6	7	8	9	10	11	12
Temp(deg.C)	185	275	347	250	347	250	347	250	330	275	225	210
Power (%)	10	10	10	10	10	10	10	10	10	10	10	10
Time(sec)	2	7	10	5	8	5	8	5	15	10	10	9

Emissivity: 0.21

3) Apply Optocast 3410 on top of glass solder

UV Power: 170-190 mW/cm2, Time: 15 sec

Total amount is 2550-2850mJ/cm2

4) Apply WR8700-7 at non-hermetic side

UV Power : 120-140mW/cm2, Time : 15sec => stop 2sec => 15sec

Total amount is 3600-4200mJ/cm2

5) Apply UV2003 to Cover Optocast 3410 and WR8700-7

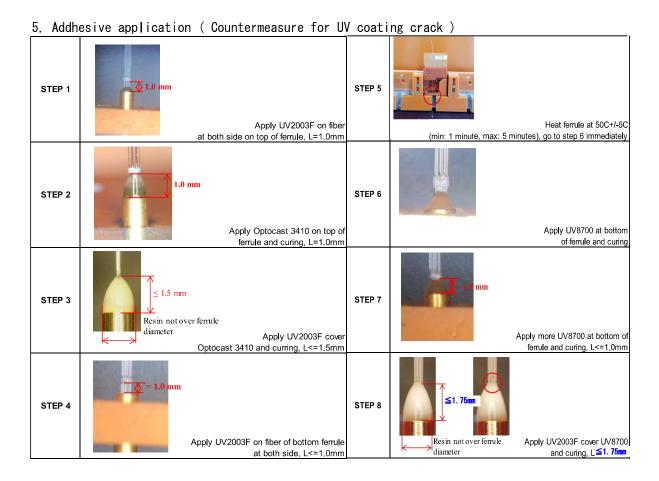
4. Process Flow from Glass sealing until Adhesive application on ferrule

Glass sealing \rightarrow Apply a line by UV2003 at top side on fiber \rightarrow

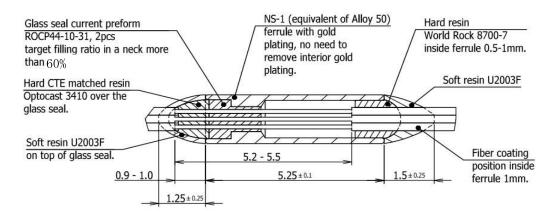
Optocast 3410 on top side \rightarrow Apply UV2003 cover Optocast 3410 \rightarrow

Apply a line by UV2003 at bottom side on fiber \rightarrow Apply 8700-7 at bottom \rightarrow

Apply UV2003 cover 8700-7 → Thermal post cure 120deg.C, 15min



6. Fiber stripping position and adhesive inside the ferrule Refer to DRAS-12911/PNJHI-0485-72-01 (latest version)



7. Product Aging

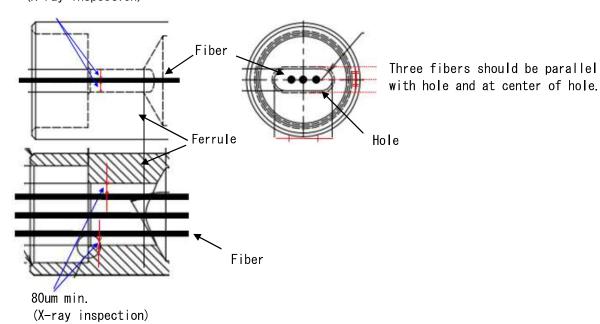
Thermal cycling shall not apply to the products.

- 8. Inspection items
- 1) X-ray

Record X-ray photo of metal ferrule at two directions (Odeg.:three fibers shown side by side in parallel, 90deg.)

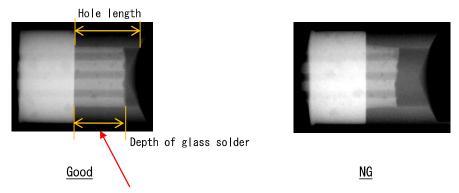
-Alignment of Fiber position in hole of ferrule

87.5um +/- 25um (X-ray inspection)



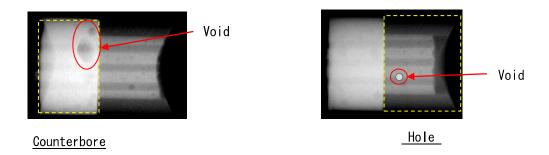
-Glass solder depth.

Depth should be more than 3/5 (more than 60%) of hole length of ferrule Refer to the figure below.



Over 60% of the hole length, depth should be checked at minimum point

-Air bubbles in glass solder observed by X-ray



Area			Crite	eria					
Counterbore	Voids expose to the top surface	Void ≦125um : OK Void > 125um : NG							
		Void ≦125	Sum : OK						
						Void >12	5um & ≦2	250um	
					1pc	2pcs	3pcs	4pcs	
	Voids not expose to the top surface	Void >250u Not touch the fibers		m & Ope	o OK	OK	OK	NG	
		Or Any pcs of voids within a 625um diameter			o OK	OK	NG	NG	
		& Not touching the fibers 2pcs NG					NG		
		Void > 625	Sum : NG						
Hole	Void	OK							
			Void > 62.5um, ≦ 125um				!5um		
			1pc	2pcs	3pc	cs -	4pcs	5pcs	
	Void	Орс	OK	OK	Ol	<	OK	OK	
	>125um, ≦ 187.5um	1pc	OK	OK	Ol	<	NG	NG	
		2pcs				NG			
	Void > 187.5um : NG								

2) Leak Test

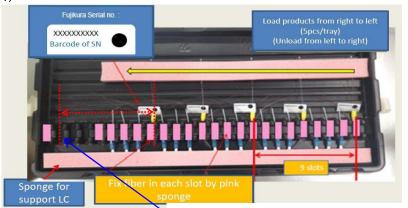
- -Run m/c until get 3.0×10^{-10} Pa · m³/sec (3.0×10^{-9} atm · cc/sec)
- -Blowing helium for 7 sec

Record pressure at 5 sec after the start of helium blowing

- -Pressure should keep reducing, not swing upd/down during helium blowing
- -Continue runnig machine and record pressure at 10 sec after the start of helium blowing.
- -Pressure should keep reducing, not swing up/down after stop helium blowing
- 3) Fiber Appearance Inspection
 Use stereo-microscope 25x
- 4) Reflectometer check

9. Packing

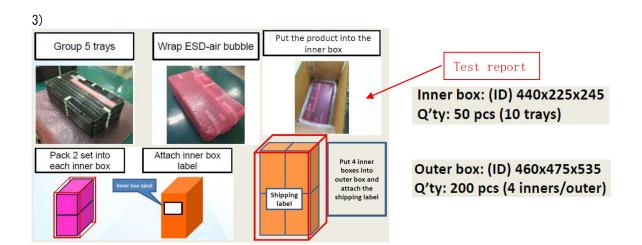
1)



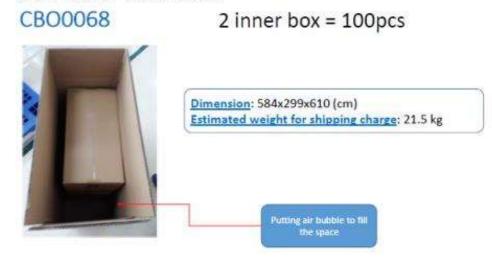


It is allowed to set fibers in the 8^{th} slot if fiber length is too short for 9^{th} slot.





Outer box for two inner box



Outer box for one inner boxes

CBO0303 1 inner box = 50pcs



case that shipping quantity is not multibple of 200pcs,

use the outer box for one inner box, or the outer box for two inner boxes as well as the outer box for the four inner boxes to minimize toatal weight and volume (Ex.Table4).

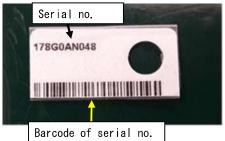
Table 4

Shipping	Inner box	Outer box	Outer box	Outer box
quantity	440x225x245 (cm)	564x344x278(cm)	584x299x610(cm)	460x475x535 (cm)
50pcs	1	1	_	_
100pcs	2	_	1	_
150pcs	3 + 1(dummy)	_	_	1
200pcs	4	_	_	1
250pcs	5	1	_	1
300pcs	6	_	1	1
350pcs	7 + 1(dummy)	-	-	2

10. Tag

Attach a tag with serial no. and its barcode (CODE128) to each product.

Refer to Photo shown below.





11. Label

11.1 Label for Fabrinet

1) Tray cover

Acacia specification no. : Refer to Table1

Product name: Refer to Table1 Quantity in a tray

PART No.: 820-0005-03 Rev.B

Product name: HERMETIC SFF FIBER ARRAY ASSEMBLY WITH BOOT (ALLOY 50 FERRULE)

Q'ty: 5PCS

< Label sample >

2) Inner Box Label

-FBN Part Number : Acacia spec. no., refer to Table1 -Part Description: Product name, refer to Table1

Revision number of Acacia spec. no., refer to Table1 -Part Revision

-Supplier Name : Fujikura Asia Ltd.

-MFG Part Number : Fujikura spec. no., refer to Table1

-MFG Date : Manufacturing date

-MFG Name : Fujikura Fiber Optics Vietnam Ltd.

-Customer PO No. : Fabrinet PO number, refer to PO from Fujikura

PNJHI-0485-64-09

-Box Count Box # of Total Boxes -Quantity : Quantity in the Box

FOV run number for inner box per PO and use barcode for FOV internal control.

Ex 1/15, 2/15, ,, 15/15

-Country of Origin: Made in Vietnam

820-0005-03 Rev. B FBN part Number ; HERMETIC SFF FIBER ARRAY ASSEMBLY WITH BOOT (ALLOY 50 FERRULE) Part Description Rev. B Part Revision Supplier Name Fujikura Asia Ltd.

MFG date : 2017-08-29

MFG Part Number;

MFG Name Customer PO No. Fujikura Fiber Optics Vietnam Ltd.

: 50 pcs Quantity

Country of Origin ; Made in Vietnam

FOV internal barcode control

Example of Label

3) Outer Box Label

-Customer Name : Fabrinet Co., Ltd.

-Customer PO Number : Fabrinet PO number, refer to PO from Fujikura

-Product name : Product name, refer to Table1

-Customer Part Number : Acacia spec. no., refer to Table1

-<u>Case Number</u> Running number for each shipment

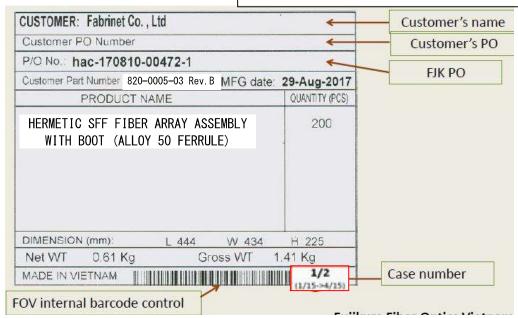
-Quantity

-Country of Origin : Made in Vietnam

Add inner box number under outer box number for FOV internal control

Ex. 1/4; outer box number

 $(1/15 \rightarrow 4/15)$; inner box number in small letter in a blanket



Example of Label

11.2 Label for Sanmina

Items shown below shall be indicated on labels.

1) Tray cover

Acacia specification no.; Refer to Table1

Product name : Refer to Table1

Quantity in a tray ; 5 PCS

PART No.: 820-0005-03 Rev.B

Product name: HERMETIC SFF FIBER ARRAY ASSEMBLY WITH BOOT (ALLOY 50 FERRULE)

Q'ty:5PCS

< sample label >

2) Inner Box label

-Lot number; Fujikura PO no. - MMDD

MMDD: Originally planned shipping date,

MM: month, DD: day, ex. Aug. 29: "0829"

- Product name: Refer to Table1

-Sanmina part number; Refer to Table1

-Quantity

-Country of Origin; Made in Vietnam

Lot Number: FPO210038710-1-0701

Product name : HERMETIC SFF FIBER ARRAY ASSEMBLY WITH BOOT (ALLOY 50 FERRULE)

Part number: LFACM820-0005-03

Quantity: 50

Made in Vietnam

< sample label >

3) Outer Box Label

-Sanmina purchase order number; Refer to PO from Fujikura

-Lot number; Fujikura PO no. - MMDD

MMDD: Originally planned shipping date,

MM: month, DD: day, ex. Aug. 29: "0829"

- -Sanmina part number (Customer part number) ; Refer to Table1
- -Quantity
- -Country of Origin; Made in Vietnam
- -Package count (Examples: 1 of 5 or 1/5)



Example of Label

12. Certificate of Conformance

12.1 Certificate of Conformance for Fabrinet

CERTIFICATE OF CONFORMANCE (Test report) shall has items shown below.

- -Company name; Fujikura Fiber Optics Vietnam Ltd.
- -Fabrinet purchase order number; Refer to PO from Fujikura
- -Fabrinet part number; Acacia spec. no., refer to Table1
- -Lot number
- -Quantity
- -Date
- -Signature
- -Format; Refer to Fig. 1 and Fig. 2

12.2 RoHS CoC For Fabrinet

Put RoHS CoC (Fig. 3) in the first box in every shipping to Fabrinet

12.3 Certificate of Conformance for Sanmina

CERTIFICATE OF CONFORMANCE (Test report) shall be put in each inner box with products, which has items shown below.

-Company name; Fujikura Fiber Optics Vietnam Ltd.

-Lot number; Fujikura PO no. - MMDD

MMDD: Originally planned shipping date,

MM: month, DD: day, ex. Aug. 29: "0829"

- -Sanmina part number; Refer to Table1
- -Lot number
- -Quantity
- -Date
- -Signature

-Format ; Refer to Fig. 1 and Fig. 2

12.4 Electric data

Save Certificate of Conformance data to the specific FTP server for Test Report data to CNC, then inform it FS-sho by e-mail.

Send PDF file of Test report for Sanmina to the following adress.

Wataru Kobayashi / Fujikura Ltd. Global Telecommunication Sales & Marketing Dept. II E-mail: wataru.kobayashi@jp.fujikura.com

Send PDF file of <u>Test report for Fabrinet</u> to the following address

TO FAL mark. zhang@sg. fujikura. com eunice. lim@sg. fujikura. com keith. wong@sg. fujikura. com joyce. ho@sg. fujikura. com

- C.C. Wataru Kobayashi/ FJK Sales; wataru.kobayashi@jp.fujikura.com Minoru Watanabe / FJK QA; minoru.watanabe@jp.fujikura.com Banchar Kruaboon / FAL Sales Eng.; banchar.kruaboon@sg.fujikura.com
- 12.5 Fiber pitch and Fiber parallel data, and Array polished angle data to Acacia Send Fiber pitch and parallel data, and array polished angle data (8deg. and 90deg. (V-groove side) of all the products shipped out for a month to FAL Mr. Banchar and Fujikura QA with Excel file by e-mail on the last Friday of the month.

-Use one Excel file for one week, one spreadsheet for one shipping(refer to Fig. 4)
-E-mail attention:

FAL Mr. Banchar: banchar. kruaboon@sg. fujikura.com

Fujikura QA : Mr. Watanabe : minoru.watanabe@jp.fujikura.com

Mr. Sumida : koji. sumida@jp. fujikura.com

13. Ongoing Reliability Testing (ORT)

To confirm reliability of the products, regurally apply Temp. Cycle and Fiber integrity test to the representative samples from the normal production flow. Minor appearance defect that don't affect the test result, can be acceptable for the samples.

Save the test data to the specific FTP server for Test Report data to CNC, then inform it FS-sho/CNC by e-mail.

Table 4

Item	Conditions	Number	Pass/Fail criteria	Frequency
		of samples		
Temp. Cycle	-40/+85 deg.C (30 min. at each temp./cycle), 100cycles	6pcs	ER \geq 18dB RL \geq 50dB Δ IL \leq 0.3dB Leak rate< 3 e- 9 atm·	Once in a quorter
			cc/sec	
Fiber Integrity	1) Staight pull of each fiber, 500g, 1min 2) Twist of each fiber, 500g, 10 cycles from 0° to 90° to -90° to 0°, at 3cm from fixed ferrule	6pcs	ER ≥ 18dB RL ≥ 50dB ΔIL≤ 0.3dB Leak rate< 3 e- 9 atm· cc/sec	Once in a quorter

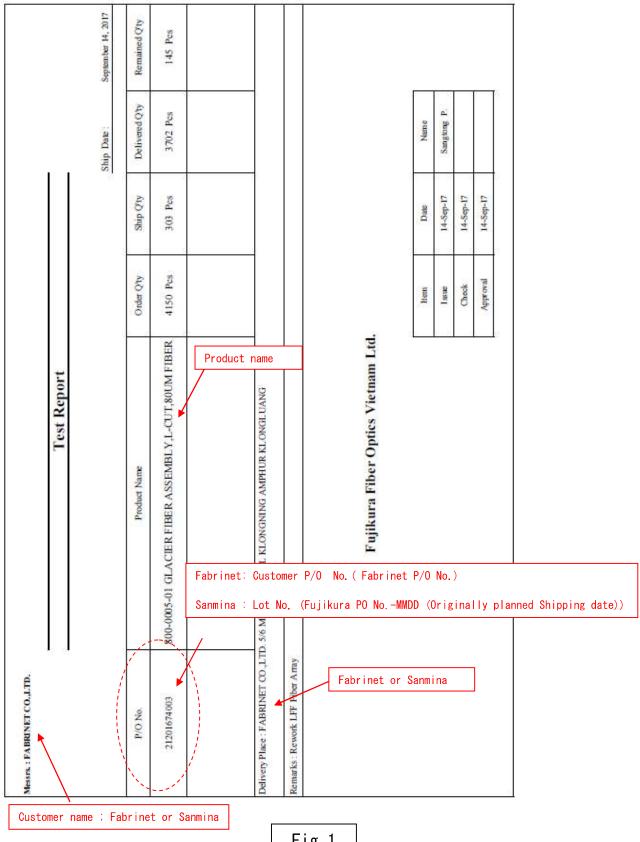
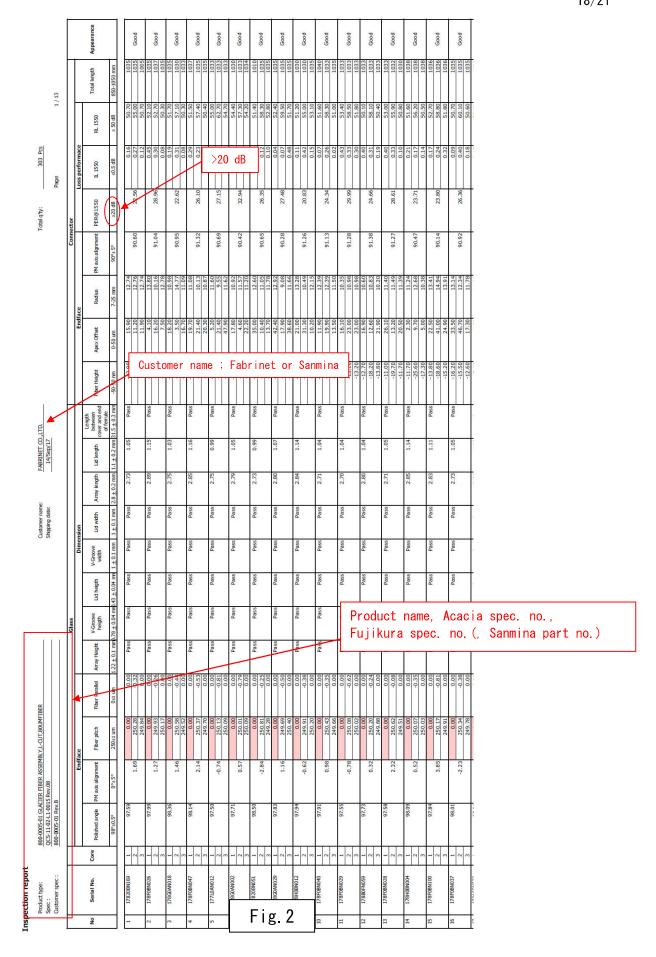


Fig. 1





1440, MUTSUZAKI, SAKURA, CHIBA 285-8550, JAPAN TEL. +81-43-484-3972 FAX. +81-43-484-3980

Date: April 2, 2019

Messrs. Fabrinet Co., Ltd

Dear Sirs,

This official letter is described about certificate for RoHS compliance for following products.

Customer P/N	Fujikura P/N	Product Description	Applicable RoHS Exemption
820-0005-03 Rev. B	PNJHI-0485-64-09	HERMETIC SFF FIBER ARRAY	6(c)
		ASSEMBLY WITH BOOT	7(c)-I

Regarding the management of environment, we Fujikura Ltd. represent and warrant that above products which we supply to you does not include any of the following prohibited hazardous ingredients in accordance with RoHS Directive 2011/65/EU and Directive 2015/863/EU:

- a) Cadmium(Cd)
- b) Lead(Pb)
- c) Hexavalent chromium(Cr Vl)
- d) Mercury(Hg)
- e) Polybrominated Biphenyls(PBB)
- f) Polybrominated Diphenyl Ethers(PBDE)
- g) Di-(2-ethylhexyl)phthalate(DEHP) (CAS No. 117-81-7)
- h) Benzyl butyl phthalate(BBP) (CAS No. 84-74-2)
- i) Di-n-butylphthalate(DBP) (CAS No. 85-68-7)
- j) Diisobutyl Phthalate(DIBP) (CAS No. 84-69-5)

Sincerely,

Chisato Kikuchi

Manager,

Optical Fiber Systems Quality Assurance Department,

Quality Assurance Center,

Power & Telecommunication Systems Company,

Fujikura Ltd.

Fig. 3

	Product type:	HERMETIC SEF FIR	ER ARRAY ASSEMBLY	WITH BOOT (ALLOY 50	(FERRULE)	Customer name:	Fabrinet Co.	.Ltd
	Spec:	PNJHI-0485-64-09			- Liutolly	Shipping date:	16-May-19	,
	Customer spec:	820-0005-03Rev. B				Total q'ty:	100	
	Total judgement	Good		(Fujikura PO No	MMDD (Orig	ginally planned	shipping	da
No Serial No.	Core	Fiber pitch	Fiber Parallel	Judgement				
140	Seriai No.	Core	250±1 um	0±1 um	Judgement			
		1	0.00	0.00				
1	A190500001	2	250.14	0.00	Good			
		1	249.86	0.00				
2	A190500002	2	0.00 249.98	0.00 -0.11	Good			
-	71170300002	3	250.04	0.00	Good			
		1	0.00	0.00				
3	A190500003	2	249.82	-0.02	Good			
		3	250.19	0.00				
		1	0.00	0.00				
4	A190500004	3	249.93 250.10	-0.10 0.00	Good			
		1	0.00	0.00				
5	A190500005	2	250.15	-0.51	Good			
	3	249.86	0.00					
		1	0.00	0.00				
6	6 A190500006	2	250.15	-0.21	Good			
		3	249.87	0.00				
7	A190500007	2	0.00 250.43	0.00 0.26	Good			
7 A19030000	A190300007	3	249.59	0.00	Good			
		1	0.00	0.00				
8	A190500008	2	250.47	-0.10	Good			
		3	249.54	0.00				
		1	0.00	0.00	<u> </u>			
9	A190500009	2	250.22	-0.33	Good			
		1	249.80 0.00	0.00				
10	A190500010	2	249.93	0.14	Good			
		3	250.08	0.00				
		1	0.00	0.00				
11	A190500011	2	249.98	-0.01	Good			
		3	250.04	0.00				
10	1100500012	1	0.00	0.00	6 1			
12	A190500012	3	250.06 249.94	-0.28 0.00	Good			
		1	0.00	0.00				
13	A190500013	2	250.05	-0.50	Good			
		3	249.96	0.00				
		1	0.00	0.00				
14	A190500014	2	250.30	-0.12	Good			
		1	249.70 0.00	0.00				
15	A190500015	2	250.42	-0.04	Good			
	11170500015	3	249.63	0.00	Good			
		1	0.00	0.00				
16	A190500016	2	249.76	0.11	Good			
		3	250.24	0.00				
17	A 100500015	1	0.00	0.00	<i>a</i> .			
17	A190500017	2	250.01 250.04	-0.62 0.00	Good			
		3	0.00	0.00				
18	A190500018	2	249.90	0.08	Good			
		3	250.12	0.00				
		1	0.00	0.00				
19	A190500019	2	249.84	-0.73	Good			
		3	250.18	.00				
20	A 100500000	1	0.00 Fi	g. 4	<i>~</i> :			
20	A190500020	3	249.62 250.40	0.00	Good			

添付資料

Appendix A

-820-0005-03 Rev. A

PNJHI-0485-72-01

Rev.	Date	Description	Reason	Issued	Checked	Approved
_	MAR. 19, 2019			Sawada	Shida	Hanya
A	2019. 4. 8	-Changed product name in a ccordance with Acacia drawing -Added Acacia drawing no. to Table1 -Changed revision of Fujik ura specification -Added 1.3 Drawing for man ufacturing, changed CPAS4-215A4 to PNJHI-0485-72-01 -Changed spec. for glass sealing Alignment; 87.5um +/-40um -> 87.5um +/-25um Glass solder depth; more than 80%> more than 60% Voids/Airbubbles; changed totally -Added 10. Inspection items -Changed name of lable on Table2, TT727> TT327	-Customer drawing was issued, officially - Reviewed of internal s pec. -Maker changed the name of label	Sawada	Uenoyama	Hanya
В	2019. 4. 26	-Changed "10. Inspection it ems" to "3. Product specification" -Deleted Test method and Inspection from Table4 -Momved "3. 3)X-ray photo" , "6. Leak Test" "9. Fiber Appearance Inspection" to 8. Inspection	_	Sawada	Araki	Hanya
С	2019. 5. 27	-Added 12.4 Fiber pitch an d Fiber parallel data to Acacia -Added Fig. 4	-Customer request	Sawada	Araki	Uenoyama
D	2019. 8. 22	-Changed criteria for void s in glass solder -Changed leak test procedu re	-Reviewed criteria -Reduced leak test time	Sawada	Araki	Uenoyama

Rev.	Date	Description	Reason	Issued	Checked	Approved
E	2019, 8.30	-Added Sanmina part no. to Table1 -Added 11.2 Label for Sanmina -Added 12.3 Certificate of Conformance for Sanmina -Added Array polished angle to 12.4	-Customer request	Sawada	Araki	Hanya
F	2019, 9. 30	9. Packing 1) Added"It is allowed to set fibers in the 8th slot if fiber length is too shor t for 9th slot"	-Countermeasure for the packing trouble of sho rt fibers	Sawada	Araki	Hanya
G	2019. 11. 19	Table2 -Changed model of LC connector parts -Added spec. no. for Hytrel tube -Changed definition of Lot no. to Sanmina MMDD: shipping date>MMDD: originally planned shipping date -Discontinue printed test report (CoC) attachment to the products for Sanmina	-Customer request, EOL of boot material, Cost down (生産条件変更申請書JEHI -58-19-0027) -Updated - To avoid re-making labels and documents in case of shipping schedule change -Cost down	Sawada	Araki	Hanya
Н	2019. 11. 28	Table2 -Changed revision of the drawing for LC connector(P) and Ferrule unit LC(P)B. CPAI1-006H → CPAI1-006I CPAI2-036D → CPAI2-036E -Added 13. Ongoing Reliability Testing (ORT)	-Updated -Customer request	Sawada	Araki	Hanya

Rev.	Date	Description	Reason	Issued	Checked	Approved
1	2020. 9.17	-Changed document no. from PNJHI-0485-25-08H to SPPU-10383(1) -Changed box count/case no. on the box label for Fabrinet -Changed test report to Fabrinet	-CNC document control system changed -Customer request (ref. JEHI-53-20-0004(2))	Sawada	Araki	Hanya
		-Changed UV adhesive for fiber array from World Rock 8776NL5 to World Rock 8776NL5F -Revised drawing PNJHI-0485-72-01	-EOL of World Rock 8776NL5 (ref. JEHI-53-2 0-0006) -Specified the minimum Iid length			
		→ PNJHI-0485-72-01A				
2	2020. 10. 20	-12.4 Electric data Canceled sending Test Report PDF file to Fujikura Sales.	-Because FS-sho issue C oC based on FOV TR, and the sales send the CoC to Sanmina instead of FOV TR.	Sawada	Araki	Hanya
3	2020. 11. 17	-Changed Appearance criteri a AppendixA -> RQAP-00005 -Changed microscope magnifi cation for Fiber appearanc e inspection 20x -> 25x	-JE-58-20-1024	Sawada	Araki	Hishikawa
4	2022. 3.9	Table-2 item 20,21 Pink sponge size change 9. Packing Added photo of new packing method Table-2 Revised drawing 3CH array Registered OBL DRPT-10953 Table-4 PER changed from ≥20dB to >20dB. (not include '=') Page 17/19 Test report format shall be changed from ≥20dB to >20dB.	Packing method change Make clear applied to preventive action of fiber damage. Approved 4M change JE-58-20-1030 Make clear tolerance Of Angle Correction Apply to customer spec	Araki	Sawada	Hishikawa

Rev.	Date	Description	Reason	Issued	Checked	Approved
5	2022. 6. 13	10.1 label for Sanmina (1) tray label (2) inner box label Added product name 10.2 label for Fabrinet (1) tray label Added product name	Request from Vietnam custom mention production description or product name to inner packing	Araki	Sawada	Hishikawa
6	2024. 3. 14	[1]Changed 820-0005-03Rev. A to Rev. B in the spec. [2]Added note in table1 [3]Changed DRAS-12911(1)/PNJHI-0485-72-01A to DRAS-12911(2)/PNJHI-0485-72-01B in the spec. [4]Changed PNJHI-0485-64-0 6A to PNJHI-0485-64-09 in spec.	[1]For Revision of cusotmer spec. [2]To clearly state cus tomer agreements during last-buy manufacturing. [3][4]For Change of FJ K spec. (to cusotmer). (Changed color marking on fiber to Laser marking on boot.)	Nakane	Araki	Hishikawa
7	2024. 3. 27	[1]Changed DRAS-12911(2)/PNJHI-0485-72-01B to DRAS-12911/PNJHI-0485-72-01 (Late st version) in the spec.	[1] The drawings have been revised to correct errors. Changed the expression so that SPPU does not need to be revised every time the drawing is revised.	Nakane	Araki	Hishikawa