FUJIKURA FIBER OPTICS VIETNAM LTD.								
4M AMENDMENT REQUEST AND RECORD								
Form: 4-Pr-	007-4-Fo-001		Version: 15	5 P	age 1/4			
Requested by: TramNTN						Issued date: 13-Aug-2021		
	Record No. (get	by EIC program	n):	4-PR-	007-4-FO-00°	1-4-RC-0965		
	Record name: A	Apply cancel gr	inding for hyt	rel tube	of FSC Serie	es product		
A - Information of amendment:								
A.1 Topic fo	or 4M amendment	recommendati	on:					
	Man	□ Materi	al 📮	Metho	d/Document	□ Machine, Tool/Jig		
	Process	□ Suppli	er 🗆	Factor	y/Section	□ Others:		
A.2 Detail in	nformation: (For	document, plea	se write down	documer	nt number, cu	rrent version fully)		
* Scope	of amendment: (list out relating i	Products name	, Specifi	cation number	er, if any)		
	Apply for all Pro	ducts of FSC se	eries using hytr	el tube i	nside module	e case.		
* Descri	ption of amendme	ent:						
		Current Meth	od		Propose Method			
	Cain dia a tuta							
	Grinding tube at one side				Cancel			
	which make	Crinding or	00/2-Emm\ ot		grinding tube	e		
	connector	ferrule side	ea(3~5mm) at					
		Hytrel tub	e Ø 0.9mm	188 B		Hytrel tube Ø 0.9mm		
	Make			13.6	Make			
ferrule &				No.	ferrule & housing			
Procedure	housing connector			100	connector			
	Casing product				Casing produ			
	inside Module case				case			
Cycle time for	4 seconds/con				0 second/con			
grinding A.3 Reason:								
Grinding tub	<u>·</u> be is basically app e can review to c				e-ferrule-fiber			
Ferrule assembly method is controlled to make stable bonding for tube-ferrule-fiber								
+ Medome: + Insert ferrule: Marking for insertion fiber Control adhesive Control tube insertion								
over flow length (L1) Adhesive Length inside tube 1 - 3 mm Adhesive Length inside flange (L2) Insert fiber until the center of mark point meet flange end								

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4M AMENDMENT REQUEST AND RECORD

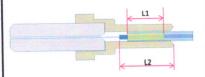
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* Check L1, L2 by samples taken in production line, here is the results:

=> All samples meet requirement which proves that operation has still be controlled well.



(L1) Adhesive over flow length

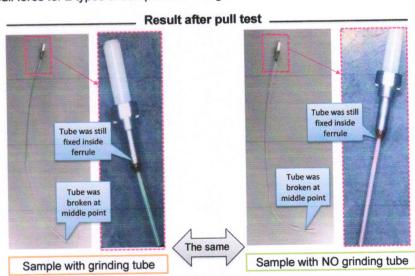
(L2) Insertion length inside flange

		L1 (mm)	L2 (mm)	Judgement
	Spec	1~3	4 ± 0.5	Judgement
1		2	4.2	ОК
2		2.5	4.1	OK
3		2	3.8	OK
4		1.5	3.9	OK
5		2	3.9	OK
6		2.5	4	OK

2. Cancel grinding hytrel tube gives a same strength for fixing between hytrel tube and ferrule Refer Pull test result: Samples of grinding tube & No grinding tube are the same

- + Hytrel Tube was still fixed inside ferrule after testing.
- + Hytrel Tube was broken with the same pull force for 2 types of sample after elongated about 300 mm

	Pull force (kgf)				
Cl-	Grinding	NO Griding tube 0.96			
Sample 1	Tube				
	0.93				
2	0.91	0.91			
3	0.85	0.94			
4	0.93	0.93			
5	0.90	0.87			
6	0.92	0.83			
7	0.95	0.96			
8	0.88	0.91 0.93			
9	0.94				
10	0.89	0.91			
MIN	0.85	0.83			
MAX	0.95	0.96			
AVERAGE	0.91	0.91			
STD	0.03	0.04			



=> No risk of tube come out after ferrule assembly with current handling process

 Connector side was wired inside module case so there is no outside force impact to the tube pull out of ferrule inside module => Have no risk tube came off after assembly

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		4M	AMENDMENT REQU	JEST AND I	RECORD		
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Not found any tube	come off def	fact haf	iore				
4. Not lourly any tube	Come on der	lect bei	ore.				
Product kind	Product kind Tube type Cancel grinding tube end History of Customer co						
Module CNC	Hytrel	Notve	at (under proposal)		2017 ~Ju		
Module SG	Hytrel		et (under proposal) dy applied		0		
Module 30	Triytrei	Alleac	ay applied				
5. Expand method: Th	is method w	as appl	lied in many other pro	duction line	s in FOV (Ex:	SG modul	e product)
6. This change will red							, ,
						,	
A.4 Declare significati							
The amendment i			1/		1		
☐ "Special customer	' Ц (Custome	er Specification 🗹 Instr	ruction from c	ustomer	General req	uirement (IEC, JIS, etc.)
Corrective action	☐ Pro	oducts N	laterial or Quality	change or risk	□ Custome	er can't use by	FOV internal
promised to custor	ner Qo	flow/ite	em changed of quali	change or risk ty level down	current r		only
A E Daview 1		-41					
A.5 Review and appro	/	ster's m	nanager:				
	Accept				☐ Do not a	accept	
* Note: Approver v	vill decide ite	ms (ch	eck to boxes) be con	trolled as se	ection B and se	ection E be	low.
Reviewed by section i	manager:	Cor	nfirmed by Technical	advisor (if a	nv) Assign	project Lea	der to:
, , , , , , , , , , , , , , , , , , , ,	,	-		aa 11001 (11 a.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	p. 0,00t 20t	401 to .
1	Fa!				Nama	Tram.NTN	
Reviewed date: 12	.Aug.2021	Cor	nfirmed date:		Code:	.600.97	
Comment:							
B - Evaluation of am	endment:		1				
B.1 Review and update			YES		□ NO		
(List out the document	relating to the	change	e require to revise/esta	blish, curren	t version and c	onfirm for co	ompletion)
Doc	cument#		Document na	ame	Current v	ersion	PIC confirm
	OP-382		FSC110 and F		8		completion TramNTN
	4-PS-009-00	001	PART	30103	1		TramNTN
					-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B.2 Risk assessment	and ravious		☐ REQUIRED		₩.	NOT REC	VIIDED
D.Z KISK assessment	and review.		□ KEQUIKED		1	NOTREG	UIKED
a) REQUIRED: the result of updating below							
FMEA re	port No.:				Version		
b) NOT REQUIRED: please breakdown the reason/information							
The change is not affect to other quality control item.							
B.3 Design review request:							
			П 222	□ \			W
☐ YES (☐ DR0	☐ DR1	1 □ DR2	□ DR3)			™ NO
Plan No. for Test Run:							
Result of Trial Run/Validation: refer to attached Technical report No.:							
Result of Trial Ru	n/Validation;	refer t	o attached Technical	report No.:			
	"Confidentia	al: FOV	's property, do not tal	ke out withou	ut FOV BOM's	approval"	
	Commutation	I UV	5 property, do not lar	o out withou	AL I OV DOIVIS	appiovai	

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C - FOV approval of amendment: (Do not require for change							
Note: Significant amendment should be approved by Dept. Man.	ager upwards, o	thers are appro	oved by Section Manager.				
	YES		NO				
Require to control of amendment:	YES		NO				
Signature: Date: 12-Aug-2021	Need custome						
Comment:							
D. Customer's confirmation & approval (by email or signat							
(Please feedback your confirmation & approval (if	any) before dat	e:)				
Approved by:		Date:					
Comment (if any): Follow customer approval: JE-58-24-1490(1)							
E. Review the implementing of the change:							
E.1 Initial control:		D NO					
Initial control plan number:							
Initial control completion report number:							
E.2 Training requirement:							
Re-train, with updating qualification record:	☐ YES		₩ NO				
Re-instruct, no need update qualification record:	YES		□ NO				
In case training required, please write down Training rec	ord number or N	leeting minute	es (& date):				
F- Confirmation for mass production: (Do not require for change of document)							
F.1 Completion review and approve by Section manager in charge of changed area:							
Approved by section manager:	pproved date:	20 - Jun	-24				
Manager's comment:							
F.2 Implementing history (started date, ID#,):	24, ID 30	84.68					
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