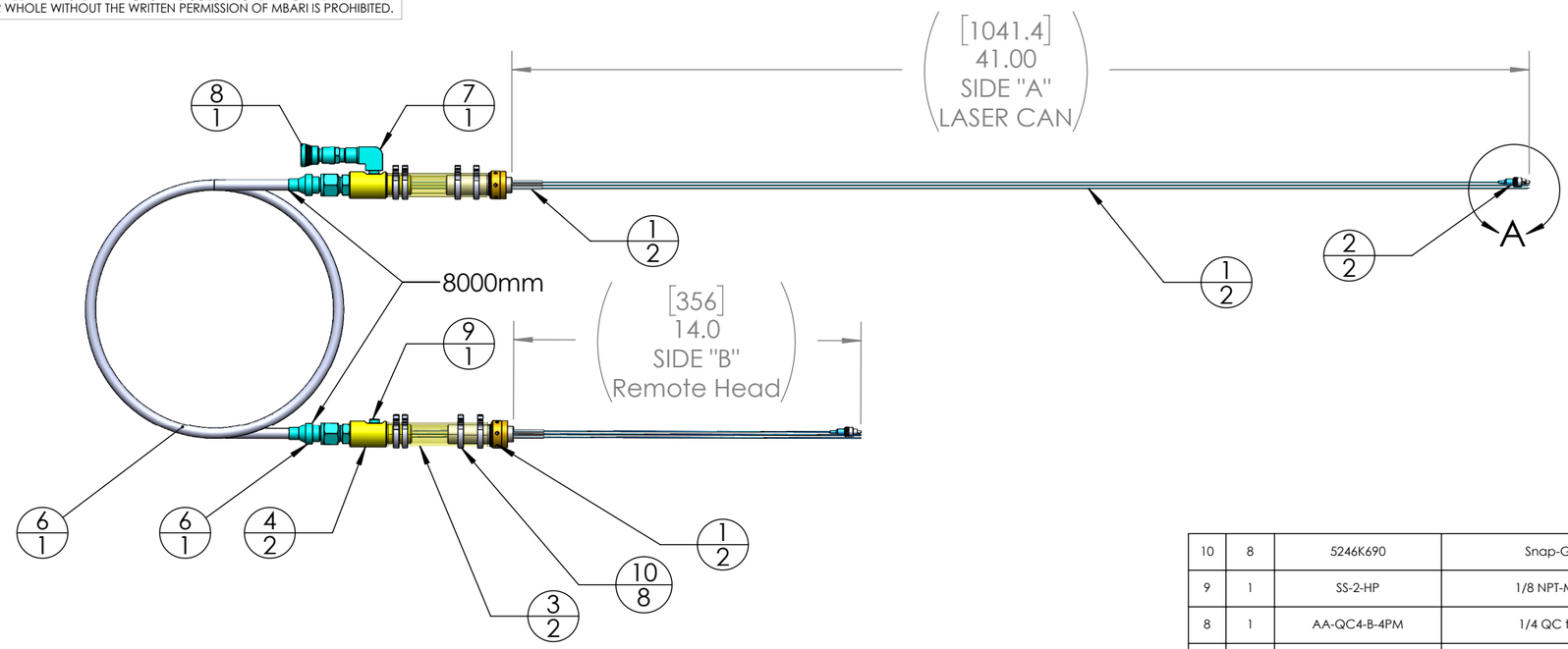
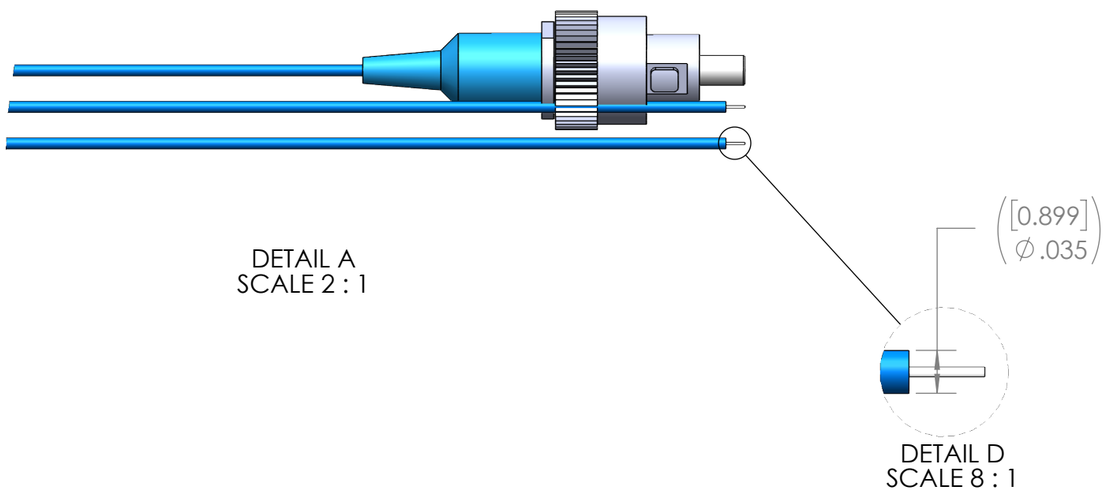
REVISIONS		
INITIAL RELEASE	X/XX/01	J.E.





DETAIL A
SCALE 2 : 1

DETAIL D
SCALE 8 : 1

ITEM NO.	QTY.	Part_Number	DESCRIPTION	Revision	Vendor	MATERIAL
10	8	5246K690	Snap-Grip Clamp		McMaster-Carr	
9	1	SS-2-HP	1/8 NPT-M Allen Plug		Swagelok	
8	1	AA-QC4-B-4PM	1/4 QC to 1/4 NPTM		Swagelok	
7	1	SS-4-RSE-2	1/4 NPTF - 1/8 NPTM Reducing Elbow		Swagelok	
6	1	SS-TH8-TA8-TA8-xxx	Half INch Wire Braid Hose Assembly		Swagelok	
5	2	SS-810-1-6ST	1/2 Tube to 3/8 SAE Adaptor		Swagelok Inc.	AISI 316
4	2	101202.Rev.A	3/4 Hose Comp Fitting to 1/2 SAE-F		MBARI	6061-T6 Alloy
3	2	5187K690	Fuel and Lubricant Yellow PVC Tubing		McMaster-Carr	PVC
2	2	S-FUXX-9/125/.25-0.3-X	FC/UPC connector, 0.3 meter		Coastal Connections	
	1	MMC# 91590A801	EXT. RETAINING RING		McMaster-Carr [Seacon / Rotoclip (5100-78)]	15-7 ph S.S.
	2	- - - - - - - - -	Item No. 28 Locking Nut Washer		Seacon	Acetal (Black)
	1	1002444	MinK Fiber Optic Cable Plug	B	MBARI	AISI 316 Annealed Stainless Steel Bar (SS)
	4	6516T11	Strain Relief Tube (Tygon)		McMaster-Carr	Tygon B44-3
	1	?????????	Generic Potting Compound 2 ????????			????????
	1	?????????	Generic Potting Compound ????????			????????
	1	7476A21	3M DP100 Epoxy		McMaster-Carr	
	4		Shrink Tube Size??			
	4	??????????	Generic Optical Fiber		Coastal connections	
1	2	A-201xxx-18	Potted Fiber Assembly		MBARI	

BILL OF MATERIALS

8. #2-017 2ea., #2-016 4ea.-(FCR)

7. PROJECT LIBRARY:\901506 DeepPIV\ME Drawings\FiberConnections

NOTES: (CONT. FROM TITLE BLOCK)

Shop / Q.C.	
Inspector	
Shop Foreman	
Engineer	
NEXT ASSY Description	NEXT ASSY Number
Application	

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°

1. DIMENSIONS ARE IN INCHES
2. DIMENSION LIMITS HELD AFTER PLATING.
3. REMOVE BURRS AND SHARP EDGES .015 MAX.
4. MACHINED FILLET RADII .0150-.030.
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .OO5
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.

DO NOT SCALE DRAWING

APPROVALS	DATE
DRAWN J. ERICKSON	12/12/17
ENGINEER J. ERICKSON	12/12/17
CHECKED	
PROJECT NO.	901506
PROJECT	ZZZZZZZZ
WEIGHT	5.974

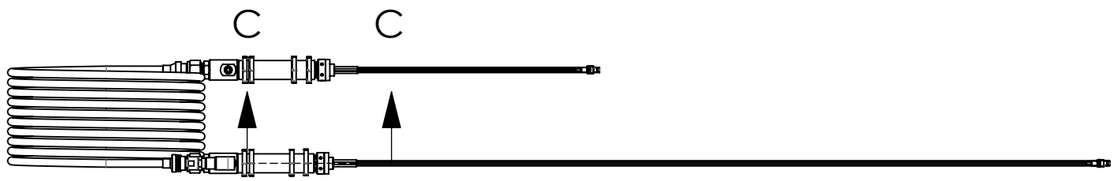
Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

PIV_Coherent Laser
PBOF Fiber Assembly

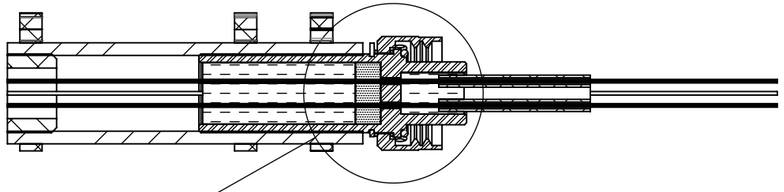
SIZE	DWG. NO.	REV.
B	A-201954-17.DWG	

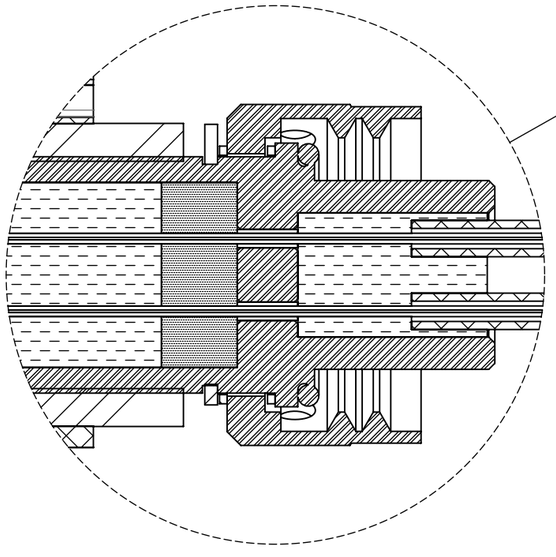
SCALE 1:16 | CAD FILE: MECH ENG ON TORNADO | SHEET 1 OF 4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

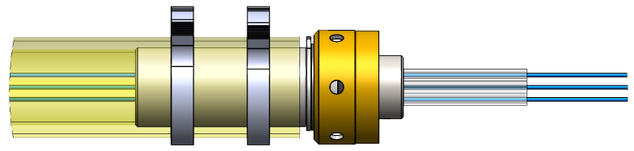


SECTION C-C
SCALE 1 : 1.5





DETAIL E
SCALE 2 : 1



DETAIL B
SCALE 1 : 1.5

7. PROJECT LIBRARY:\901506 DeepPIV\ME Drawings\FiberConnections

NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16 | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±1°		DRAWN J. ERICKSON	12/12/17
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .OO5 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.		ENGINEER J. ERICKSON	12/12/17
Engineer				CHECKED	
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO.	901506
				PROJECT	PIV
Application		DO NOT SCALE DRAWING		WEIGHT	5.974 lb.

Monterey Bay Aquarium Research Institute
MBARI
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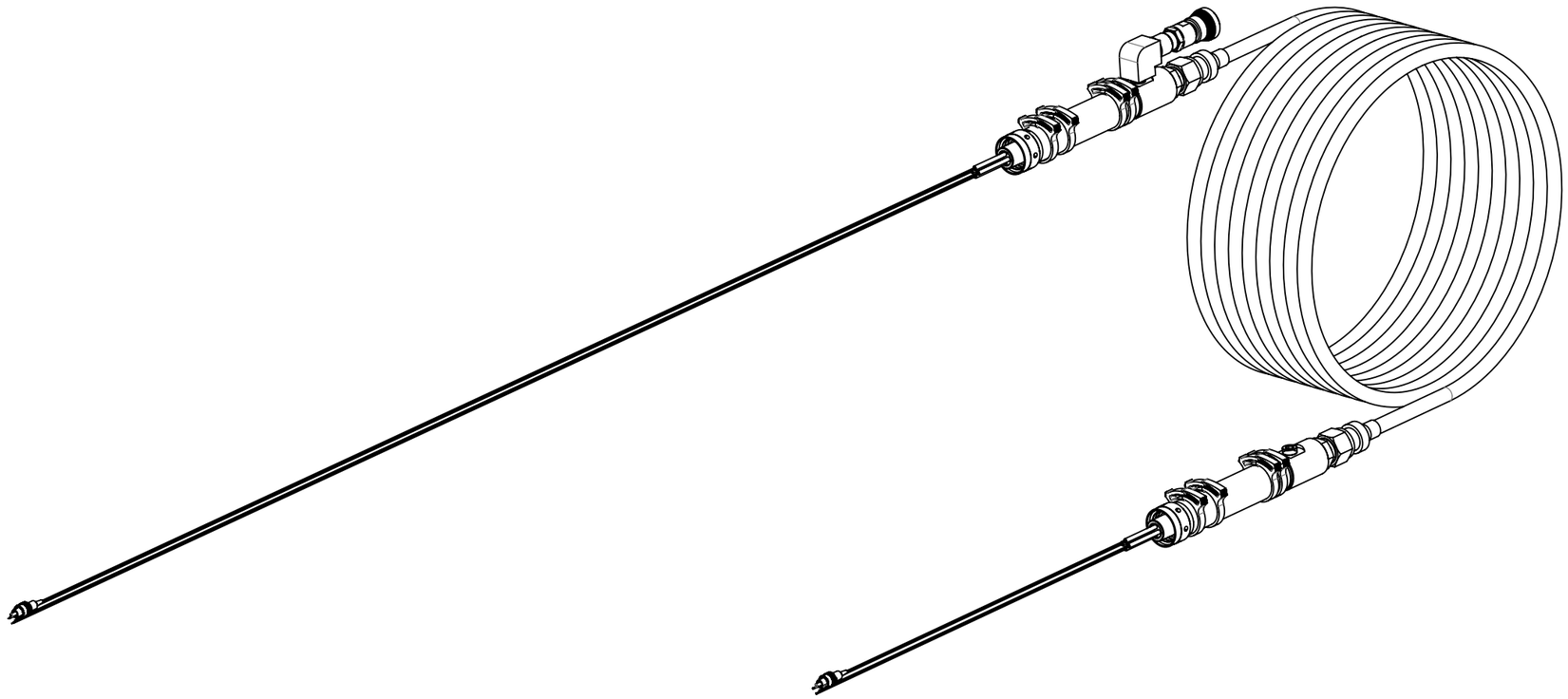
Moss Landing, CA 95039
PH: (831) 775-1700

PIV_Coherent Laser
PBOF Fiber Assembly

SIZE	DWG. NO.	REV.
B	A-201954-17.DWG	
SCALE 1:24	CAD FILE: MECH ENG ON TORNADO	SHEET 2 OF 4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.



7. PROJECT LIBRFARY:\901506 DeepPIV\ME Drawings\FiberConnections

NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION

BILL OF MATERIALS

Shop / Q.C.	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector	1 PLACE DIM ±1/16 | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±1°		DRAWN J. ERICKSON	12/12/17
Shop Foreman	1. DIMENSIONS ARE IN INCHES		ENGINEER J. ERICKSON	12/12/17
Engineer	2. DIMENSION LIMITS HELD AFTER PLATING.		CHECKED	
	3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT NO.	901506
NEXT ASSY Description / NEXT ASSY Number	4. MACHINED FILLET RADII .0150-.030.		PROJECT	PIV
	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			
	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.			
Application	DO NOT SCALE DRAWING		WEIGHT	5.974 lb.

Monterey Bay Aquarium Research Institute
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Moss Landing, CA 95039
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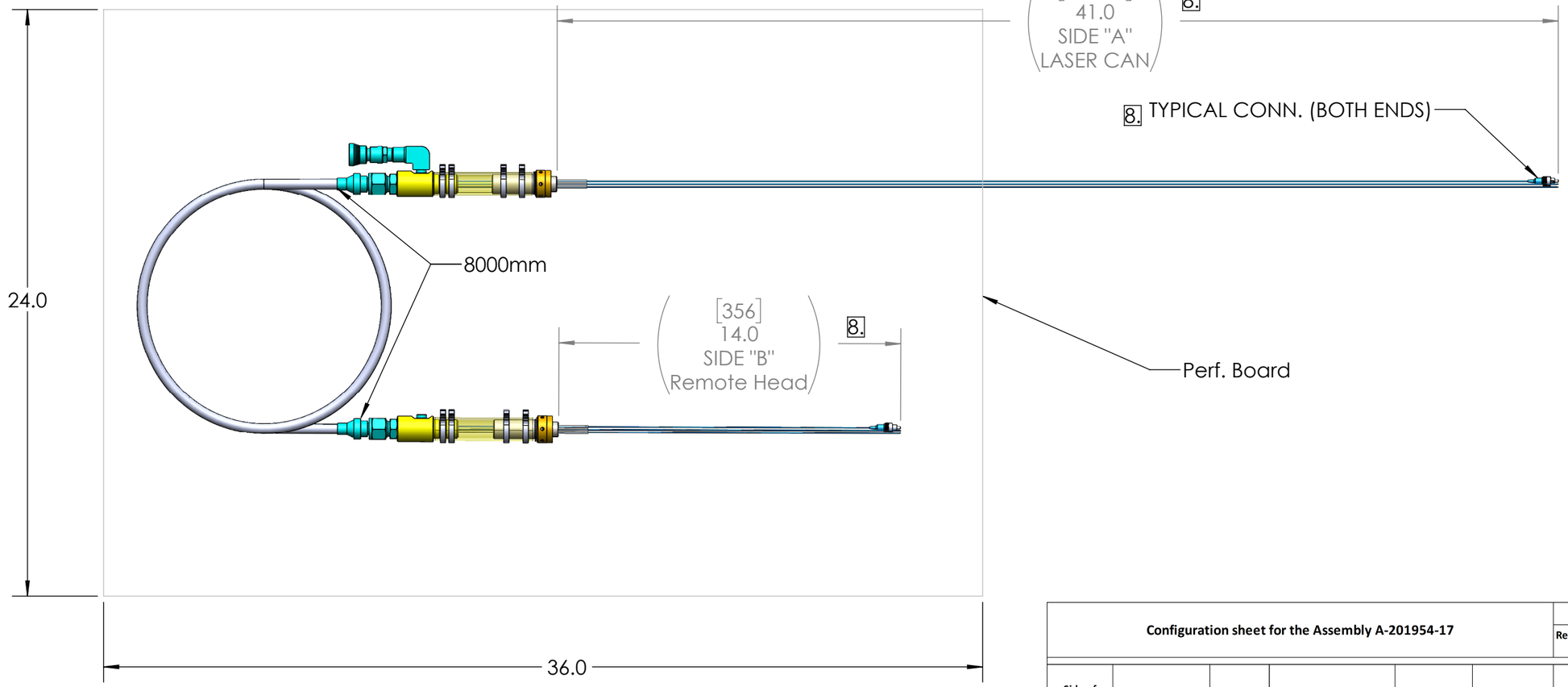
PIV_Coherent Laser
PBOF Fiber Assembly

SIZE	DWG. NO.	REV.
B	A-201954-17.DWG	
SCALE 1:24	CAD FILE: MECH ENG ON TORNADO	SHEET 3 OF 4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.



Configuration sheet for the Assembly A-201954-17

Date:	6/15/2018
Revision: Letter for Mechanical + Number for Configuration	RevA-0

Side of assembly description (refer to Drawing A-201954-17)	Fiber model	Number of fibers in the assembly	Optical connector termination	End-Cap	Number of connectors to be terminated	Fiber labels	Fiber length from end face of penetrator to the tip of optical connector (refer to Drawing A-201954-17)			
							Length, Initial termination for new assembly		Length, minimum acceptable	
							inch	mm	inch	mm
Side A	SMF-28; 1550nm SM Fiber; 9 um core; 900 um PVC jacket	4	S-FUnkFUnk-9/125/0.9	300 +/-30um Long End-Cap	2	A-1; A-2	41.0	1041	39.0	991
Side B		4	S-FUnkFUnk-9/125/0.9	300 +/-30um Long End-Cap	2	B-1; B-2	14.0	356	12.0	305

Note: termination specification code	
	S = Single Mode
	F = FC connector
	U = UPC (Ultra Physical Contact)
	N = Narrow Key
	k = Cap (optical end-cap)
	9/125 = Core, um / Cladding, um
	0.9 = Fiber patch OD, mm

8. NOTE CONFIGURATION TABLE.
7. PROJECT LIBRARY:\901506 DeepPIV\ME Drawings\FiberConnections

NOTES: (CONT. FROM TITLE BLOCK)

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN J. ERICKSON	12/12/17
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER J. ERICKSON	12/12/17
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED	
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.	901506
		4. MACHINED FILLET RADII .0150-.030.				PROJECT	DEEP PIV
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005					
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.					
Application		DO NOT SCALE DRAWING				WEIGHT	5.974 lb.

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Moss Landing, CA 95039
PH: (831) 775-1700

PIV COHERENT LASER
PBOF Fiber Assembly

SIZE	DWG. NO.	REV.
B	A-201954-17.DWG	
SCALE 1:24	CAD FILE: MECH ENG ON TORNADO	SHEET 4 OF 4