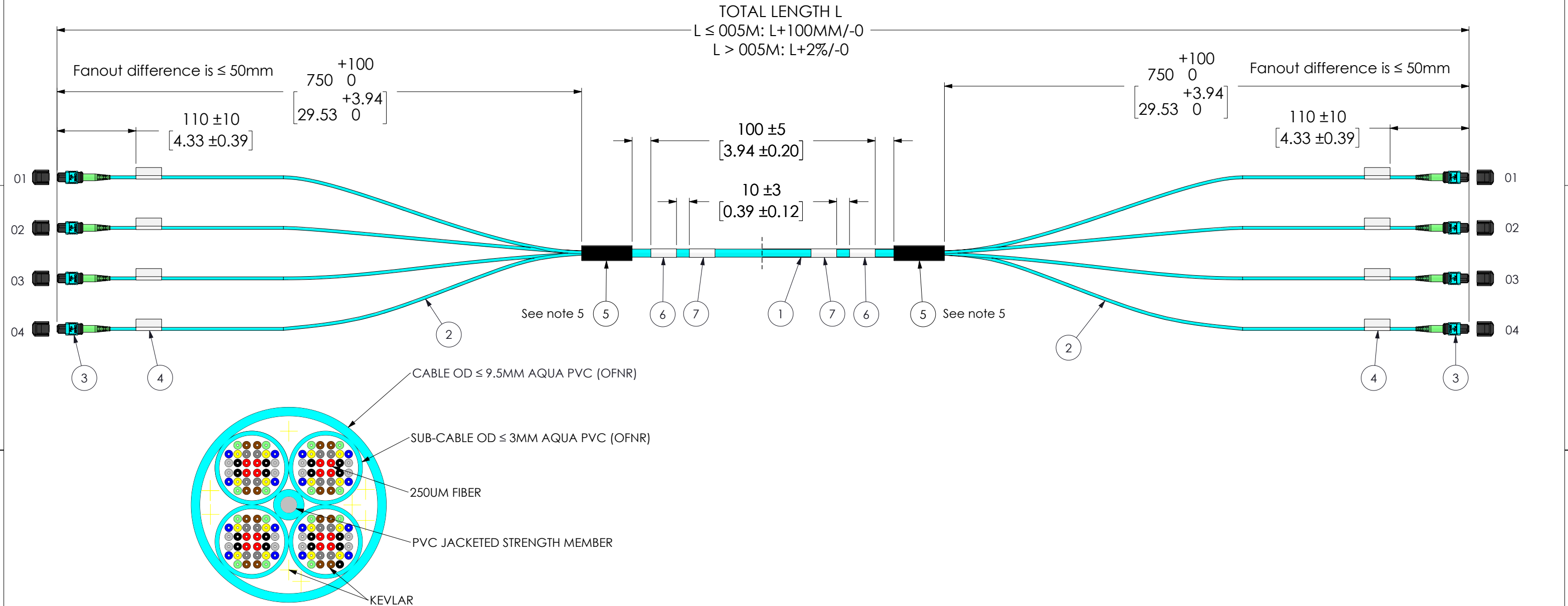


SIDE A

SIDE B



Cross Section Detail

NOTES:

1. Overall length measured from the end of longest leg on END A to end of longest leg on END B, where "XXX" is overall length in meters.
2. If a pulling eye is required, it shall be on both ends.
3. No pulling eyes for length less than 15M.
4. P/N and S/N label should follow same orientation as branch label.
5. Use 4 in heatshrink to cover the cable breakout: 3 in on the main cable/bundle and 1 in on subunits.
6. For general packaging requirements, see P-00-HS-0216.
7. For GCD packaging and labeling, see spec. P-00-HS-0119.

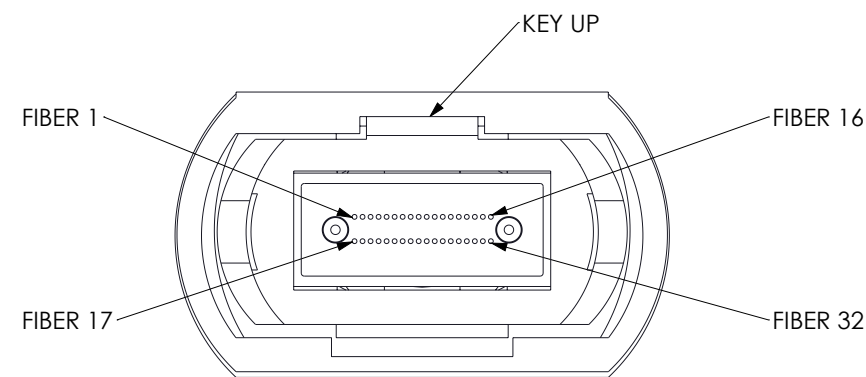
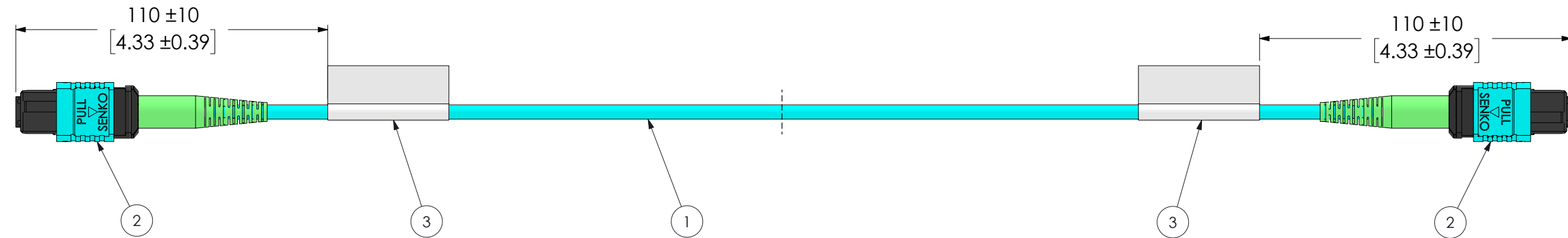
09	(1X) Per 24ECO71665: Added table and note for connectors application.	4/11/2024	M. Villarreal
08	(1x) Per 23ECO67789: Corrected some typos inside Customer description.	9/25/2023	M. Villarreal
07	(6X) (23ECO65443) Updated heatshrink description pulling eye schematics and component descriptions.	6/2/2023	A. Hernandez
06	(1X) Added note 7.	11/29/2022	A. Isaac
05	(1X) Added note 6	5/3/2022	A. Isaac
04	(3X) Updated GPN and MPN, Added note 5.	12/6/2021	A. Isaac
03	(4x) Updated template, family PN. Added note 4 and US Conec P/N. Correted Balloons components.	11/10/2021	J. Lozano
02	(2x) Added colored model, updated AFL PN	04/27/2021	NTL
01	Drawing Created	02/09/2021	NTL
REV.	DESCRIPTION	DATE	INITIAL
REVISIONS			

#	Item	Description	Reference
①	Cable	OD: 9.0mm, Aqua, PVC OFNR. Subunit: 3.0mm	C-70-HS-0171
②	Sub-cable	OD < 3.0mm, Aqua, PVC OFNR	C-70-HS-0171
③	MPO Female Connector	32F 3mm Low Loss MPO, Female, Green, 8° angle	HS-A-1912-0010
④	Branch Barcode Label (White)	White, Flag, Double Sided	P-00-HS-0156
⑤	Heatshrink Tube	Length 100mm,OD 3/4", 2:1 ratio, black, adhesive lined,	N/A
⑥	P/N Barcode Label (White)	P/N Barcode Label (White), Wrap around	P-00-HS-0156
⑦	S/N Barcode Label (White)	S/N Barcode Label (White), Wrap around	P-00-HS-0156
GPN		AFL PN (MPN)	Description
30002590-XXX (XXX = 002 TO 080 INCREMENT OF 001)		M3ZZZRCPUU-B434-MXXX (XXX = 002 TO 080 INCREMENT OF 001)	Cable, Fiber, 4-Bundle, MM, OM3, 4xMPO32/APC-F to 4xMPO32/APC-F, Expando/Self Closing Wrap, OD 8-9.5mm, fanout (0.75m OD 3-4mm), Aqua OFNR, xxxm
DRAWN		NAME MV	DATE 02/09/2021
SIZE B		TITLE: Cable, Fiber, 4-Bundle, MM, OM3, 4xMPO32/APC-F to 4xMPO32/APC-F, Expando/Self Closing Wrap, OD 8-9.5mm, fanout (0.75m OD 3-4mm), Aqua OFNR, xxxm	
SCALE 1:3		DWG. # HS-B-2304-0035-09	FAMILY PART # D8051 - M3ZZZRCPUU-B434-MXXX
⊕		UNLESS OTHERWISE SPECIFIED DIMENSIONS: mm [in] OVERALL LENGTH ≤ 5 m [16.40 ft]: -0/+100 [3.94] > 5m [16.40 ft]: -0/+2%L [+2%L]	
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SHEET 1 OF 4			REV 9



Sub-cable Construction

SIDE B



MPO32/APC, KEY UP

NOTES:

FIBER CABLE:

1. Fiber: Laser optimized 50um OM3 multi-mode fiber. Effective bandwidth >2000MHz.km. Cladding: 125um. Coating: 250um acrylate coating. Bend insensitive fiber, Corning's ClearCurve fibers or fibers with equivalent performance.
2. Jacket: 8-9.5mm riser grade for trunk section, 3.0mm riser for MPO32 fanout section.
3. Length tolerance: +2% /-0% for L>5 meters, otherwise +100mm/-0.
4. Fiber compliant with Bellcore GR-409-CORE (indoor), TIA/EIA-568-C.3, ISO/IEC 11801 2nd edition

CONNECTOR:

1. Connector: Low loss multimode 32-fiber MPO female, without alignment pin, 8-degree down angle polished, key-up.

Supplier	Full kit		NOTE: DO NOT MIX CONNECTORS FROM DIFFERENT SUPPLIERS IN ONE SINGLE ORDER
Senko	712F-F-ML32-A31-G-H01		
UsConec	Connector kit	23477	
	Ferrule kit (with miniboot)	16505	



2. Ferrule: Elite multimode 32-fiber MPO ferrule.
3. Insertion loss: 0.35 dB max
4. Return loss: <-50dB
5. Mating durability (500 cycles): <0.20 dB
6. Connector spring force: 20N
7. Connector is manufactured with engineering thermoplastic
8. Boot construction: polyester, use jacketed fiber boot, green color
9. Operating wavelength: 850nm
10. Operating temperature: 0C to +70C
11. Compliant with Telcordia GR-1435, TIA604-18 (FOCIS 18), and IEC 61754-7-1.


MPO32-A TOP	1	<->	16	MPO32-B TOP
	2	<->	15	
	3	<->	14	
	4	<->	13	
	5	<->	12	
	6	Key<->	11	
	7	<->	10	
	8	<->	9	
	9	<->	8	
	10	<->	7	
	11	<->Key	6	
	12	<->	5	
	13	<->	4	
	14	<->	3	
	15	<->	2	
	16	<->	1	

MPO32-A BOTTOM	17	<->	32	MPO32-B BOTTOM
	18	<->	31	
	19	<->	30	
	20	<->	29	
	21	<->	28	
	22	Key<->	27	
	23	<->	26	
	24	<->	25	
	25	<->	24	
	26	<->	23	
	27	<->Key	22	
	28	<->	21	
	29	<->	20	
	30	<->	19	
	31	<->	18	
	32	<->	17	

#	Item	Description	Reference
①	Cable	OD:<3.0mm, Aqua, PVC OFNR	C-70-HS-0171
②	MPO Female Connector	32F 3mm Low Loss MPO, Female, Green, 8° angle	HS-A-1912-0010
③	Branch Barcode Label (White)	White, Flag, Double Sided	P-00-HS-0156

GPN		AFL PN (MPN)	Description
30002590-XXX (XXX = 002 TO 080 INCREMENT OF 001)		M3ZZZRCPUU-B434-MXXX (XXX = 002 TO 080 INCREMENT OF 001)	Cable, Fiber, 4-Bundle, MM, OM3, 4XMP032/APC-F to 4XMP032/APC-F, Expando/Self Closing Wrap, OD 8-9.5mm, fanout (0.75m OD 3-4mm), Aqua OFNR, xxxm

DRAWN		NAME	DATE	TITLE:	PROD. REF.	TEST REF.
MV		02/09/2021	Cable, Fiber, 4-Bundle, MM, OM3, 4xMP032/APC-F to 4xMP032/APC-F, Expando/Self Closing Wrap, OD 8-9.5mm, fanout (0.75m OD 3-4mm), Aqua OFNR, xxxm			B-00-HS-0100

SIZE	B	DWG. #	FAMILY PART #	 <small>COPYRIGHT © ALL RIGHTS RESERVED.</small>
SCALE	1:3	HS-B-2304-0035-09	D8051 - M3ZZZRCPUU-B434-MXXX	

2024-05-13 08:39:01

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AFL HYPERSCALE EC COMMITTEE

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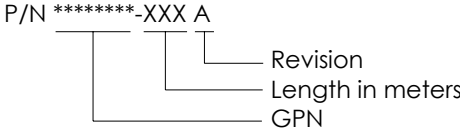
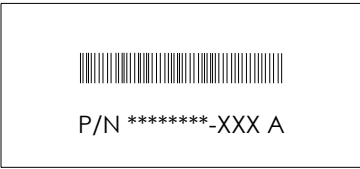
SHEET 2 OF 4

REV 9

D

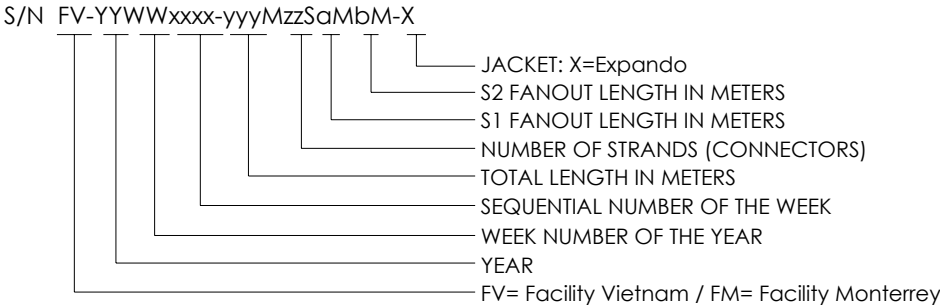
D

- NOTES:**
- 1. Label material: Polyester w/adhesive back, Rohs and agency (e.g. UL) compliance.
 - 2. Barcode: code 128, height ≥ 4mm. readable text centered below.
 - 3. Double sided for a flag label; 2 copies for wrap-around label if the size allows.
 - 4. Fiber length: in meters, round to -1 decimal for non-integer (e.g. "1.3" for 1.25 meters).
 - 5. All sequential numbers use an underscore (" _") for 6 & 9.



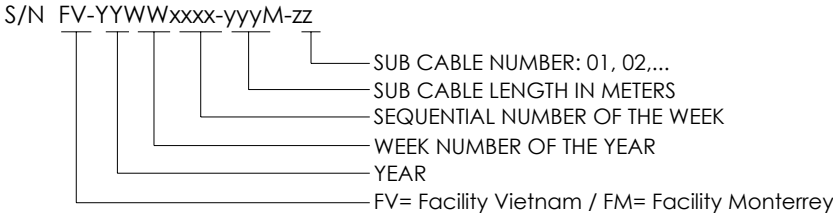
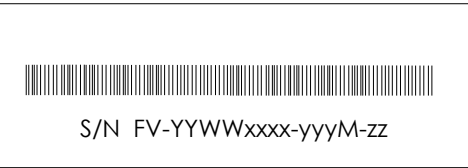
** Wrap-around label, 2 copies if size allows
** Lengths ≤ 35mm, font Arial ≥ 7 Pt
** The text "P/N" or revision "A" only in human readable text, not the in barcode. The barcode content: "*****-XXX".

P/N Barcode Label



** Wrap-around label, 2 copies if size allows
** Lengths ≤ 50mm, font Arial ≥ 7 Pt
** The text "S/N" only in human readable text, not in the barcode. Barcode content: "FV-YYWWxxxx-yyyMzzSaMbM-C".

S/N Barcode Label





** Flag label, doubled sided, facing cable
** Lengths ≤ 15x40mm, font Arial ≥ 7 Pt
** The text "S/N" only in human readable text, not in the barcode. Barcode content: "FV-YYWWxxxx-yyyM-zz".

Branch Barcode Label

A

A

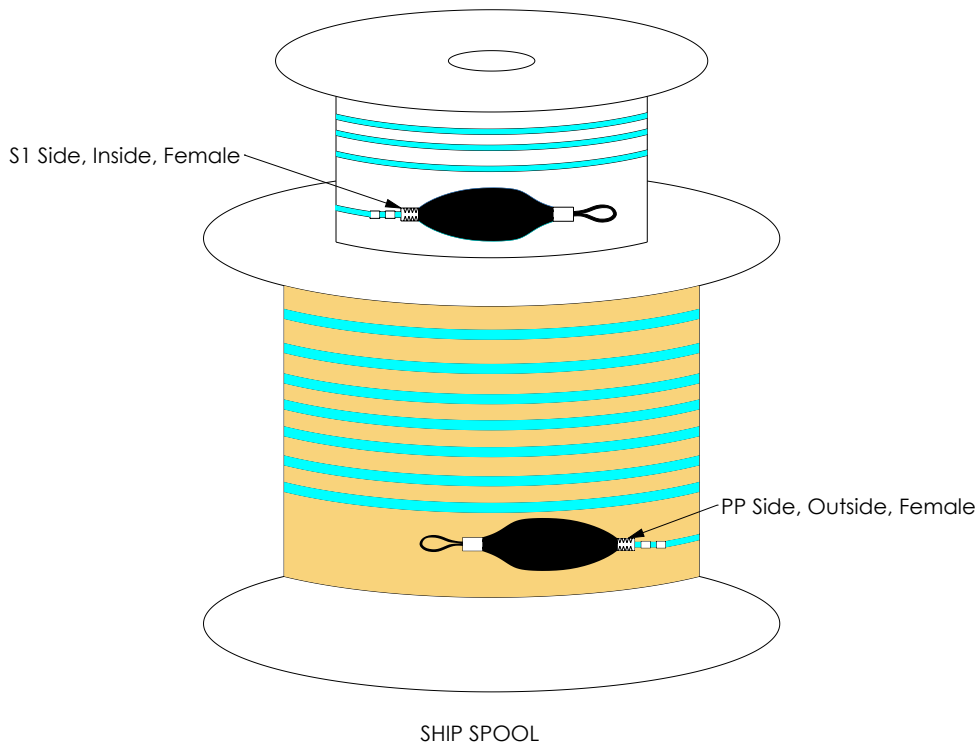
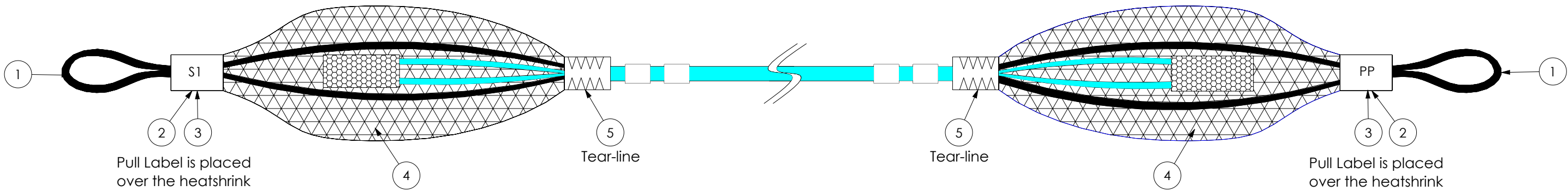
		NAME	DATE	TITLE: Cable, Fiber, 4-Bundle, MM, OM3, 4xMPO32/APC-F to 4xMPO32/APC-F, Expando/Self Closing Wrap, OD 8-9.5mm, fanout (0.75m OD 3-4mm), Aqua OFNR, xxxm		PROD. REF.	TEST REF.
DRAWN		MV	02/09/2021				B-00-HS-0100
SIZE	B	2024-05-13 08:39:01		DWG. #	FAMILY PART #	 COPYRIGHT © ALL RIGHTS RESERVED.	
SCALE 1:3				HS-B-2304-0035-09	D8051 - M3ZZZRCPUU-B434-MXXX		
		<div>APPROVED</div> <div>AFL HYPERSCALE EC COMMITTEE</div>		PROPRIETARY AND CONFIDENTIAL		SHEET 3 OF 4	
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						REV 9	

A

A



SIDE A

SIDE B



NOTES:
Use heat sealed PE bag if L ≤ 15 meters; otherwise, use spool

PULLING EYE NOTES:
1. Bubble wrap is needed to hold the connectors.

#	Item	Description	Reference				
①	Pull Rope	1.6mm Expando. Black	SOP-D-0036				
②	Heatshrink Tube	Length 75mm, OD 1/2", 2:1 ratio, black, adhesive lined					
③	Pull Label	White Label					
④	Mesh Socket (Black)	Black					
⑤	Heatshrink Tube	Length 100mm,OD 3/4", 2:1 ratio, black, adhesive lined, easy tear					
DRAWN		NAME MV	DATE 02/09/2021	TITLE: Cable, Fiber, 4-Bundle, MM, OM3, 4xMPO32/APC-F to 4xMPO32/APC-F, Expando/Self Closing Wrap, OD 8-9.5mm, fanout (0.75m OD 3-4mm), Aqua OFNR, xxxm	PROD. REF.	TEST REF. B-00-HS-0100	
SIZE	B	DWG. # HS-B-2304-0035-09		FAMILY PART # D8051 - M3ZZZRCPUU-B434-MXXX		<div> COPYRIGHT © ALL RIGHTS RESERVED.</div>	
SCALE	1:3	UNLESS OTHERWISE SPECIFIED DIMENSIONS: mm [in]		OVERALL LENGTH ≤ 5 m [16.40 ft]: -0/+100 [3.94] > 5m [16.40 ft]: -0/+2%L [+2%L]			
		<div><div>2024-05-13 08:39:01</div><div>APPROVED</div><div>AFL HYPERSCALE EC COMMITTEE</div></div>		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AFL IG Ltd. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AFL IG Ltd. IS PROHIBITED.		SHEET 4 OF 4	REV 9