

 **ESD SENSITIVE**

TABLE 1: ASSEMBLY LENGTH LIMITS [cm]											
		MIN				MAX					
		END OPTION				HEAT SINK					
		-01	-02	-07	-0E	-1	-3	-5			
FIBER TYPE	-5	11	11	10	8	100	50	100			
	-6	11	11	10	8	100	50	100			
	-7	14	14	12	10	300	300	300			
	-8	12	12	10	8	300	300	300			

TABLE 2: LENGTH TOLERANCE	
ASSEMBLY LENGTH [cm]	TOLERANCE [cm]*
000-016	±0.16
017-999	±1%

* ROUNDED UP TO 2 DECIMAL PLACES

ECUO-X12-25-XXX-0-X-1-X-XX

TYPE
-T12: x12 TX
-R12: x12 RX

DATA RATE
-25: 25.7 Gbps

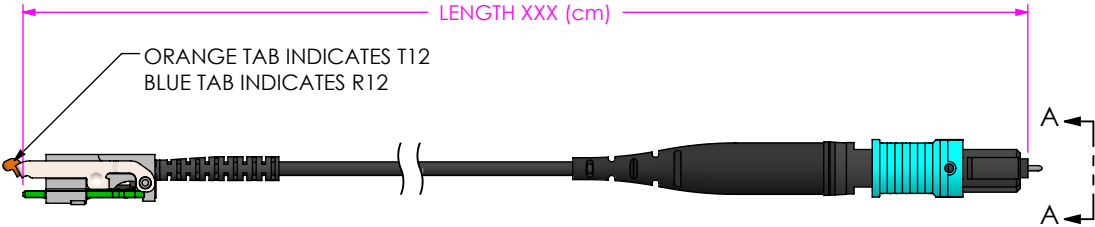
END OPTION
-01: MTP® MALE
-02: MTP® FEMALE
-07: MXC® INTERNAL PLUG
-0E: MPO PLUS® BAYONET MALE

ASSEMBLY LENGTH
-XXX: LENGTH (cm) SEE TABLES 1, 2

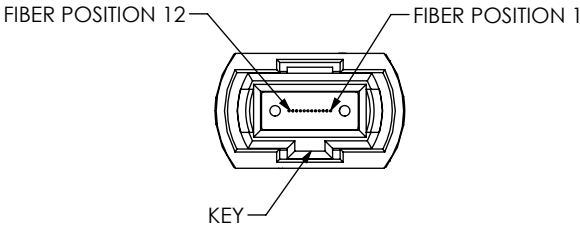
HEAT SINK
-1: FLAT
-3: GROOVED
-5: HIGH PERFORMANCE PIN-FIN

FIBER TYPE
-5: BLACK JACKETED RIBBON WITH BOOT
-6: BLACK JACKETED RIBBON
-7: BLACK LOOSE TUBE WITH BOOT
-8: BLACK LOOSE TUBE

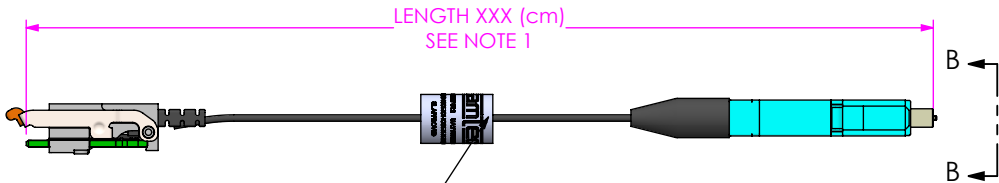
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SCALE FROM
THIS PRINT



PART NUMBER ECUO-X12-25-XXX-0-1-1-7-01 SHOWN

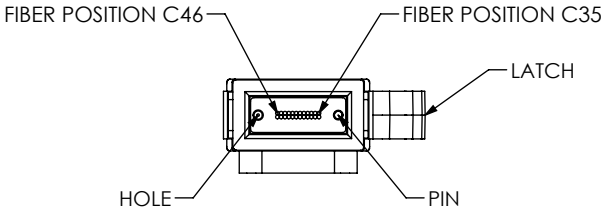


VIEW A-A
END OPTIONS -01/-02/-0E



SEE NOTE 5

PART NUMBER ECUO-X12-25-XXX-0-1-1-5-07 SHOWN



VIEW B-B
END OPTION -07
SEE NOTE 1

- NOTES:
1. QUANTITY OF LENSES PRESENT MAY VARY. FIBER POSITION DOES NOT CHANGE REGARDLESS OF THE NUMBER OF LENSES PRESENT
 2. PASS THROUGH ALLOWS ONE JACKETED RIBBON (FIBER TYPE -5/-6) OF CABLE LENGTH MAX 50 cm TO PASS ABOVE HEAT SINK AND UNDER COLD PLATE
 3. FIREFLY MUST BE INSTALLED IN A NO-TENSION STATE FREE FROM DYNAMIC FLEXING
 4. ALL MTP®/MPO ARE INTERMATEABLE WITH CONNECTOR ADHERING TO TIA-604-5
 5. ALL CABLES WITH A LENGTH GREATER THAN 50 cm ARE LABELED. LABEL TO CONTAIN PART NUMBER AND SERIAL NUMBER INFORMATION
 6. DUST CAPS REMOVED FROM ALL VIEWS FOR CLARITY

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.
ALL DIMENSIONS ARE
FOR REFERENCE ONLY

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:1

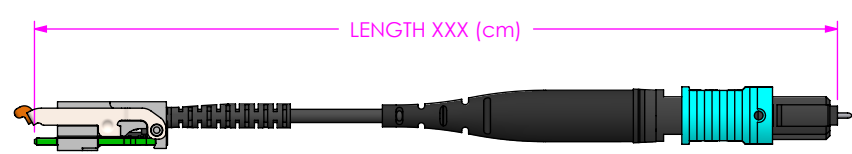
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e-Mail: info@SAMTEC.com code 55322

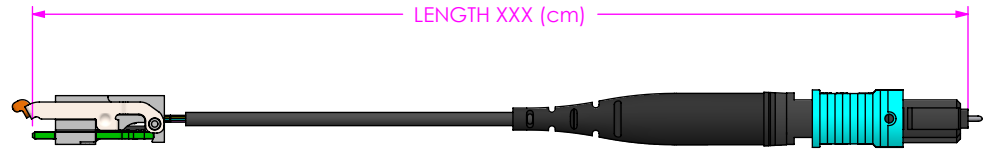
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OPTICAL FIREFLY ASSEMBLY

DWG. NO.
ECUO-X12-25-XXX-0-X-1-X-XX

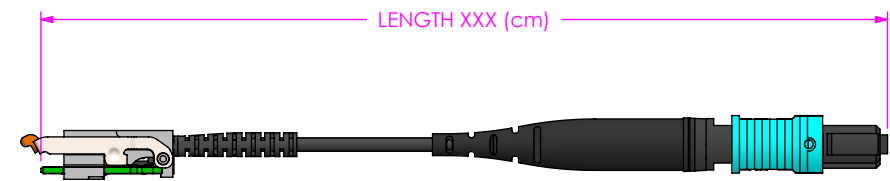
BY: JOSUE C. 07/14/2021 SHEET 1 OF 7



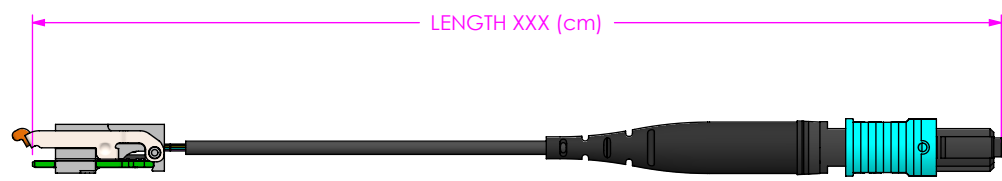
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PART NUMBER ECUO-X12-25-XXX-0-1-1-8-01 SHOWN



PART NUMBER ECUO-X12-25-XXX-0-1-1-7-02 SHOWN



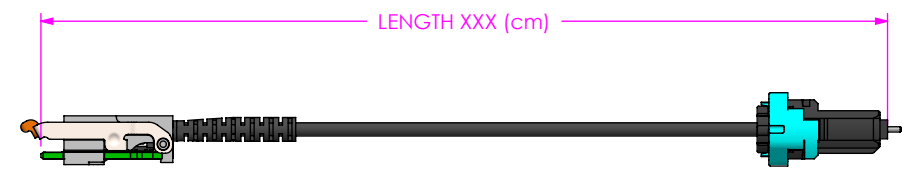
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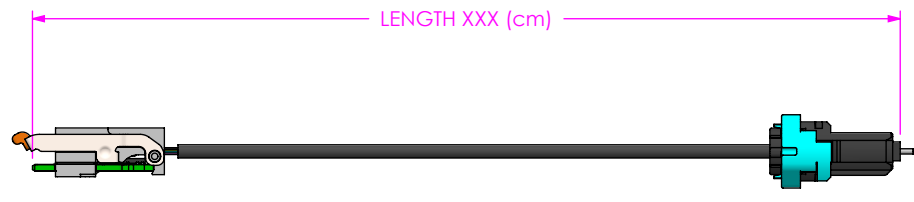
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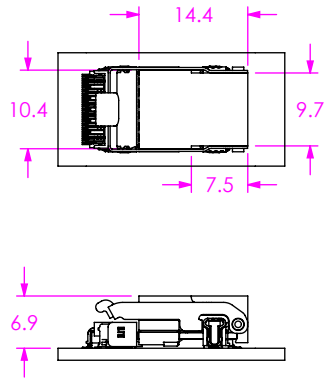
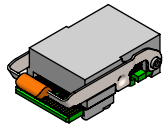


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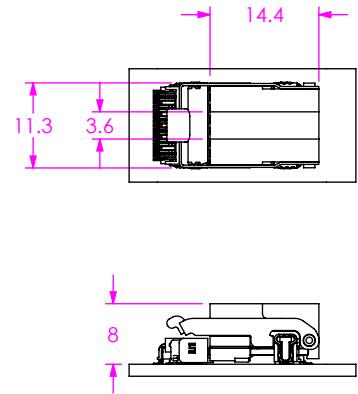
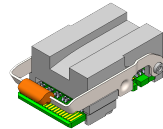


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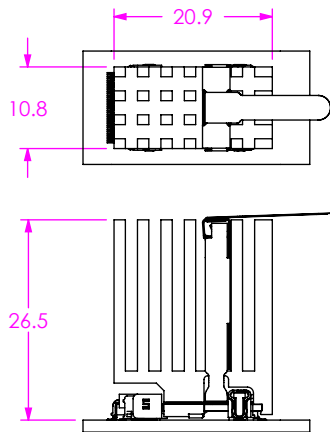
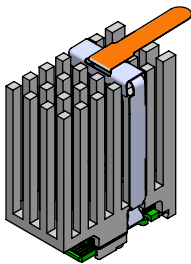
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	DESCRIPTION: OPTICAL FIREFLY ASSEMBLY
	DWG. NO. ECUO-X12-25-XXX-0-X-1-X-XX
SHEET SCALE: 1:1	BY: JOSUE C. 07/14/2021 SHEET 2 OF 7



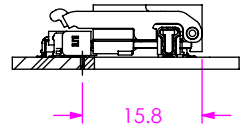
-1 FLAT HEAT SINK



-3 GROOVED HEAT SINK



-5 HIGH PERFORMANCE PIN-FIN HEAT SINK



KEEP OUT AREA FOR DE-MATING
TYPICAL FOR HEAT SINKS -1/-3/-5
REFER TO UEC5 FOOTPRINT DRAWING
FOR DETAILED KEEPOUT AREAS

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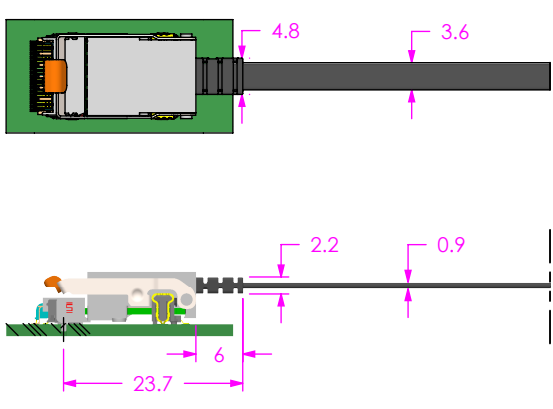


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e-Mail info@SAMTEC.com code 55322

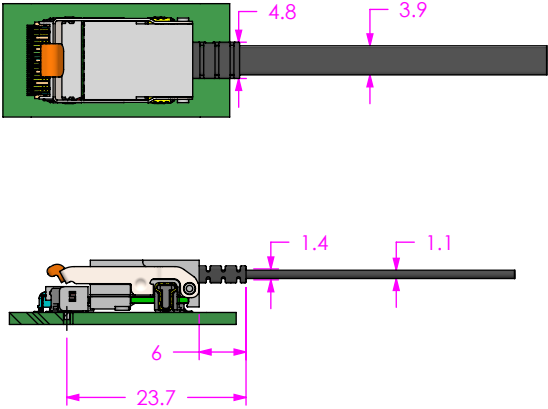
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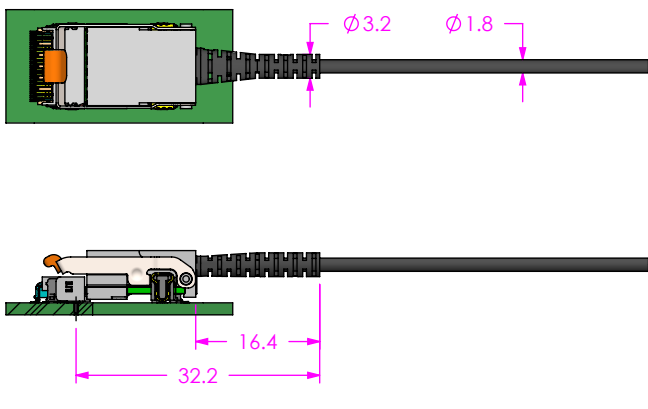
BY: JOSUE C. 07/14/2021 SHEET 3 OF 7



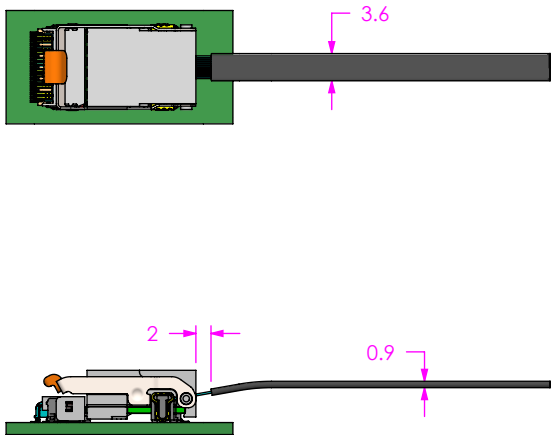
-5 FIBER TYPE, ≤ 50 cm LENGTH



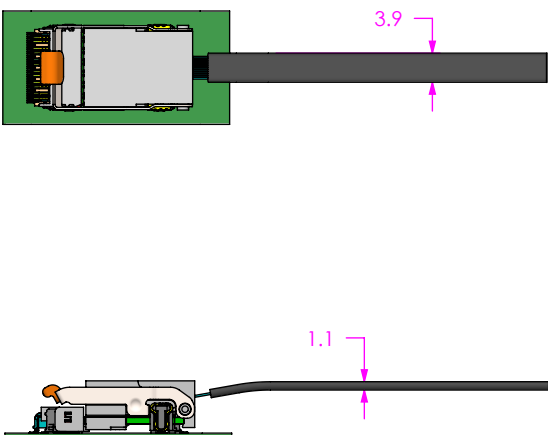
-5 FIBER TYPE, ≤ 50 cm LENGTH



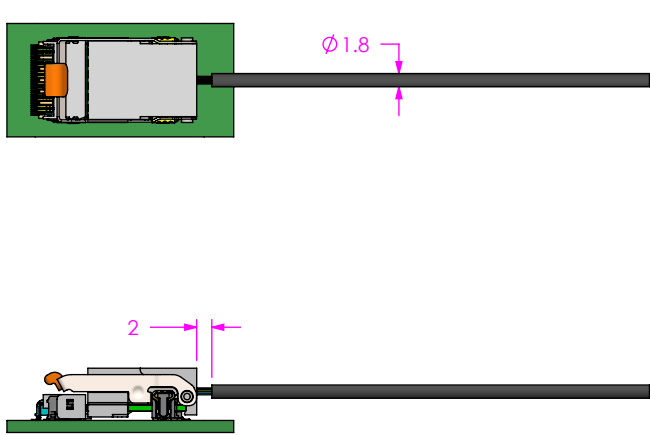
-7 FIBER TYPE



-6 FIBER TYPE, ≤ 50 cm LENGTH



-6 FIBER TYPE, > 50 cm LENGTH



-8 FIBER TYPE

NOTES:
1. DIMENSIONED FROM THE CENTER OF THE ALIGNMENT PIN HOLE AS SHOWN ON THE UEC5/UCC8 CONNECTOR FOOTPRINT

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SHEET SCALE: 1:1

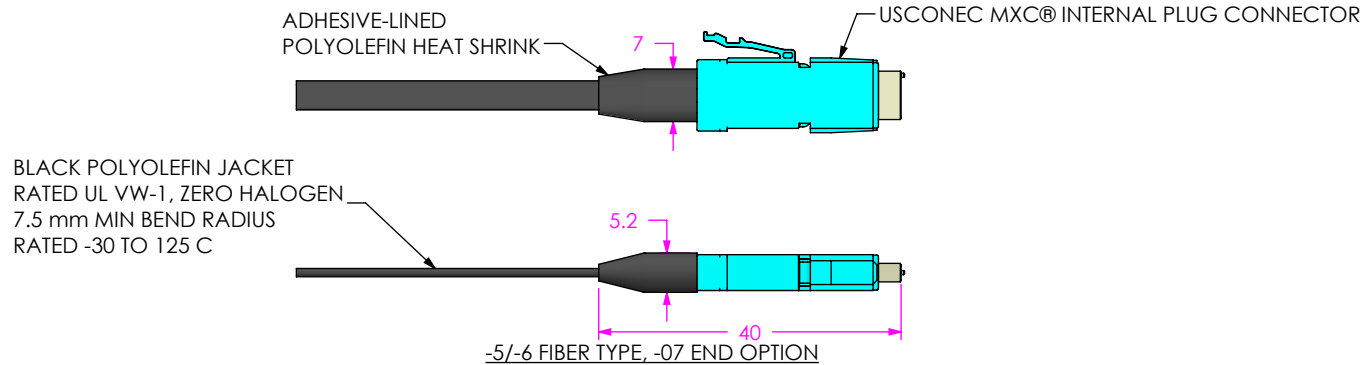
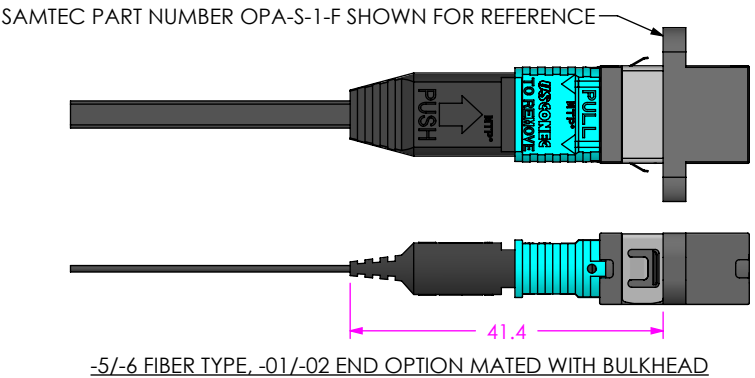
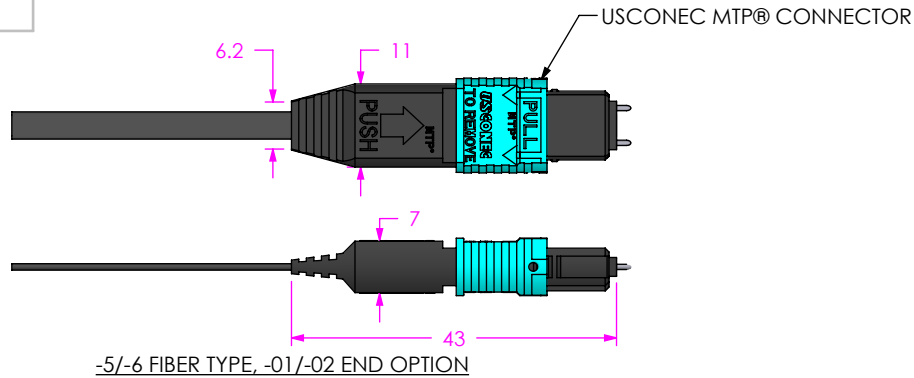


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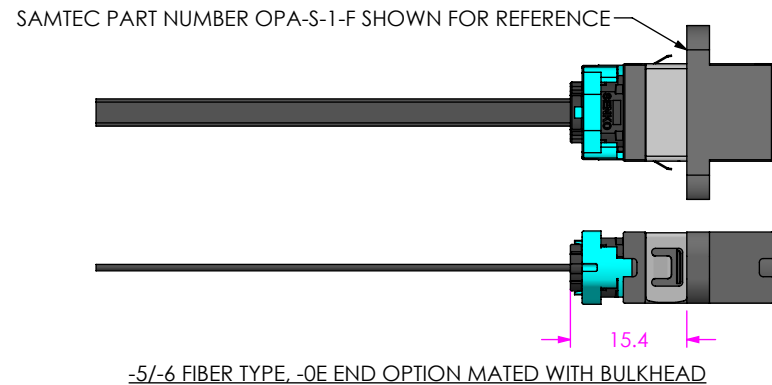
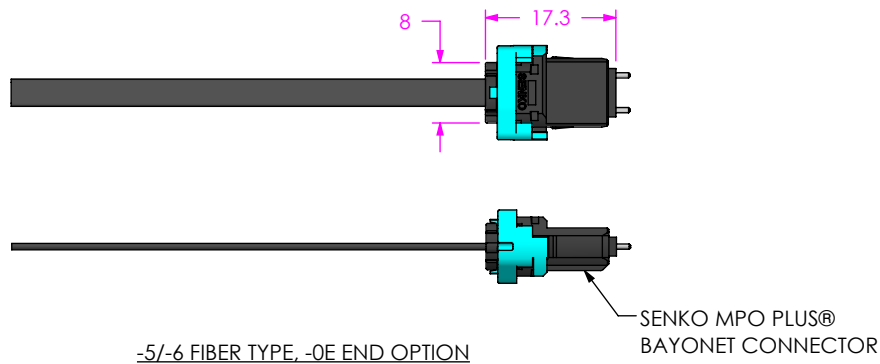
DESCRIPTION:
OPTICAL FIREFLY ASSEMBLY

DWG. NO.
ECUO-X12-25-XXX-0-X-1-X-XX

BY: JOSUE C. 07/14/2021 SHEET 4 OF 7



BLACK POLYOLEFIN JACKET
RATED UL VW-1, ZERO HALOGEN
7.5 mm MIN BEND RADIUS
RATED -30 TO 125 C



NOTES:
1. DUST CAPS/PLUGS NOT SHOWN FOR CLARITY

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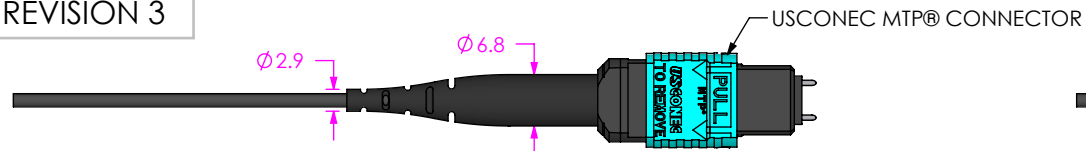
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OPTICAL FIREFLY ASSEMBLY

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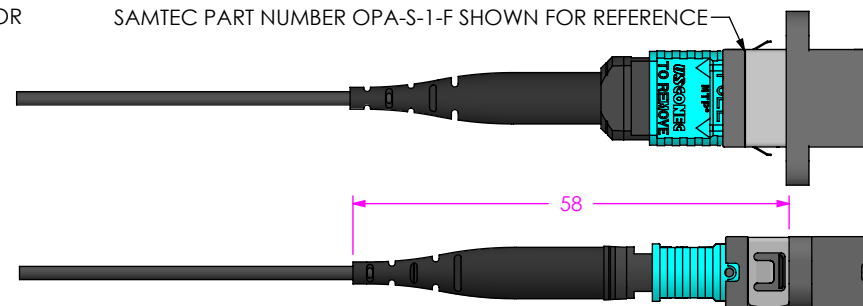
BY: JOSUE C. 07/14/2021 SHEET 5 OF 7

REVISION 3



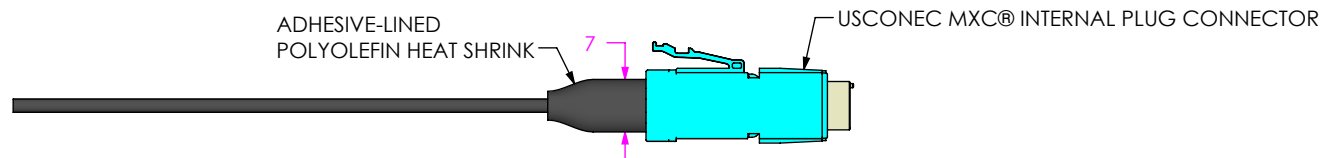
-7/-8 FIBER TYPE, -01/-02 END OPTION

SAMTEC PART NUMBER OPA-S-1-F SHOWN FOR REFERENCE



-7/-8 FIBER TYPE, -01/-02 END OPTION MATED WITH BULKHEAD

BLACK POLYOLEFIN JACKET
RATED UL VW-1, ZERO HALOGEN
7.5 mm MIN BEND RADIUS
RATED -30 TO 125 C

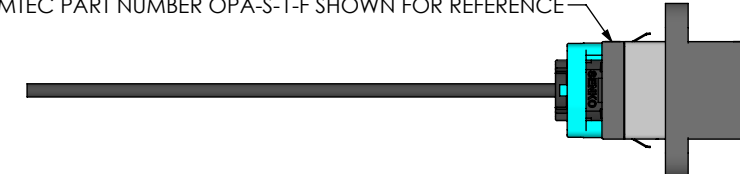


-7/-8 FIBER TYPE, -07 END OPTION

SAMTEC PART NUMBER OPA-S-1-F SHOWN FOR REFERENCE



SENKO MPO PLUS®
BAYONET CONNECTOR



-7/-8 FIBER TYPE, -0E END OPTION

-7/-8 FIBER TYPE, -0E END OPTION MATED WITH BULKHEAD

- NOTES:
1. DUST CAPS/PLUGS NOT SHOWN FOR CLARITY

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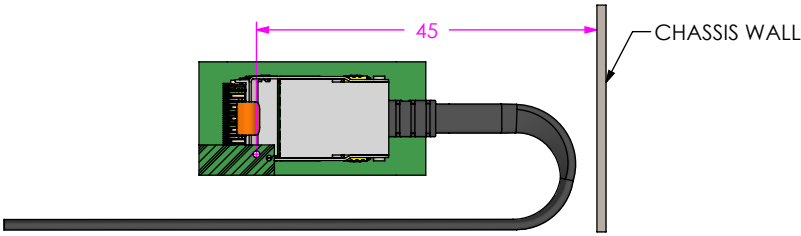
SHEET SCALE: 1:1

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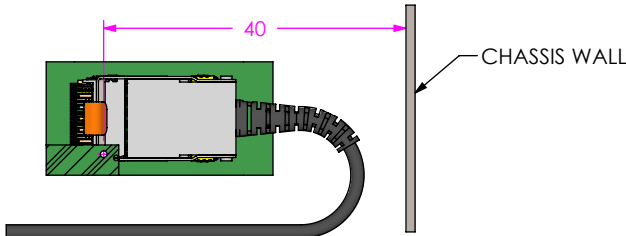
520 PARK EAST BLVD, NEW ALBANY, IN 47150
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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
OPTICAL FIREFLY ASSEMBLY
DWG. NO.
ECUO-X12-25-XXX-0-X-1-X-XX

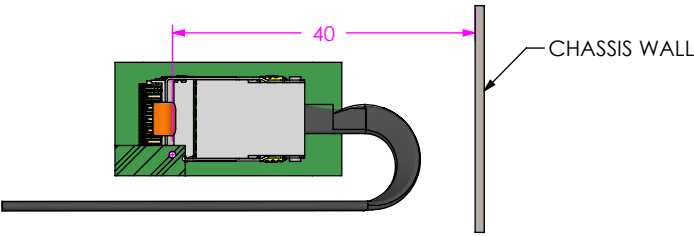
BY: JOSUE C. 07/14/2021 SHEET 6 OF 7



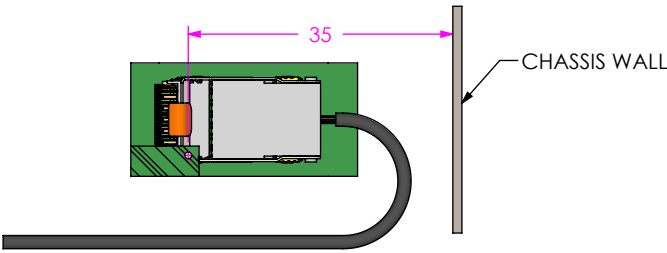
-5 FIBER TYPE RECOMMENDED CABLE ESCAPE CLEARANCE



-7 FIBER TYPE RECOMMENDED CABLE ESCAPE CLEARANCE



-6 FIBER TYPE RECOMMENDED CABLE ESCAPE CLEARANCE



-8 FIBER TYPE RECOMMENDED CABLE ESCAPE CLEARANCE

- NOTES:
1. DIMENSIONED FROM THE CENTER OF THE ALIGNMENT PIN HOLE AS SHOWN ON THE UEC5/UCC8 CONNECTOR FOOTPRINT
 2. DUE TO THE COMPLIANT NATURE OF FIBER CABLE AND THE MOLDED FIBER BOOT COMPONENTS, THE DIMENSIONS SHOWN ON THIS SHEET ARE FOR GUIDANCE ONLY. EACH APPLICATION IS UNIQUE AND MAY RESULT IN UNIQUE CLEARANCE DIMENSIONS FOR THE CABLE ESCAPE.

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DO NOT SCALE DRAWING SHEET SCALE: 1:1		DESCRIPTION: OPTICAL FIREFLY ASSEMBLY	
INSULATOR: CONTACT OR TERMINAL: SHIELD: PHOS BRONZE PLATING: CONTACT AREA: .000010 REF GOLD REMAINDER: .000200 REF TIN		DWG. NO. ECUO-X12-25-XXX-0-X-1-X-XX	
		BY: JOSUE C.	07/14/2021 SHEET 7 OF 7