

 **ESD SENSITIVE**

TABLE 1: ASSEMBLY LENGTH LIMITS [cm]								
	MIN					MAX		
	END OPTION					HEAT SINK		
	-21	-22	-27	-2E		-1	-3	-5
-5	13	13	12	10		100	100	100
-6	13	13	12	10		100	100	100
-7	16	16	14	12		300	300	300
-8	14	14	12	10		300	300	300

TABLE 2: LENGTH TOLERANCE	
ASSEMBLY LENGTH (cm)	TOLERANCE (cm)*
009-016	±0.16
017-999	±1%

* ROUNDED UP TO 2 DECIMAL PLACES

ECUO-Y12-25-XXX-0-X-1-X-XX

TYPE
-Y12: Y CONFIGURATION

DATA RATE
-25: 25.7 Gbps

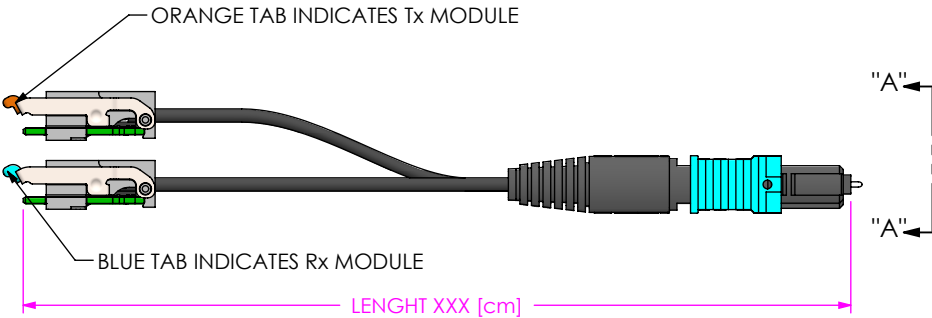
ASSEMBLY LENGTH
-XXX: LENGTH (cm) SEE TABLES 1, 2

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

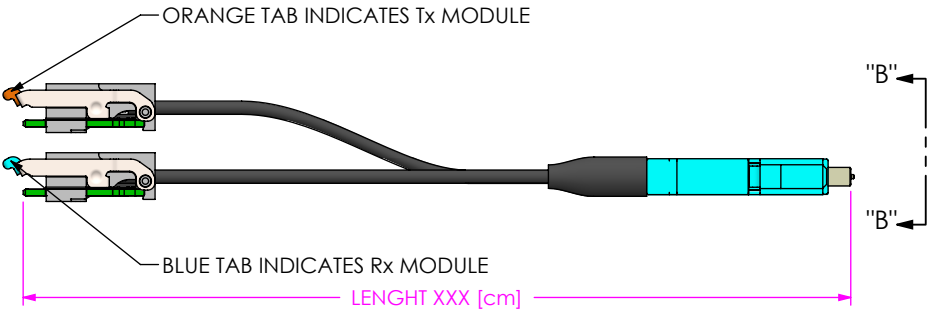
END OPTION
-21: MTP® MALE
-22: MTP® FEMALE
-27: MXC® INTERNAL PLUG
-2E: MPO PLUS® BAYONET MALE

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

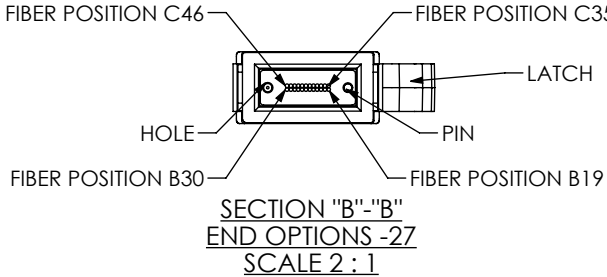
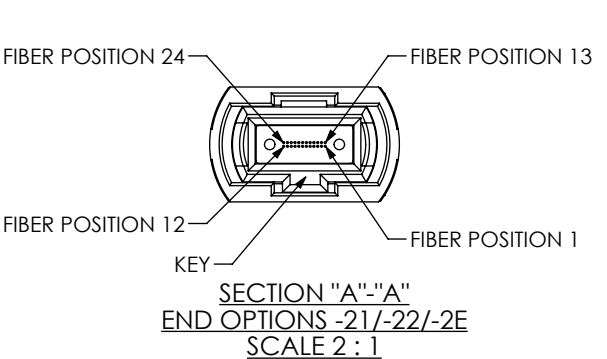
DO NOT
SCALE FROM
THIS PRINT



PART NUMBER ECUO-Y12-25-XXX-0-1-1-7-21 SHOWN



PART NUMBER ECUO-Y12-25-XXX-0-1-1-7-27 SHOWN



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

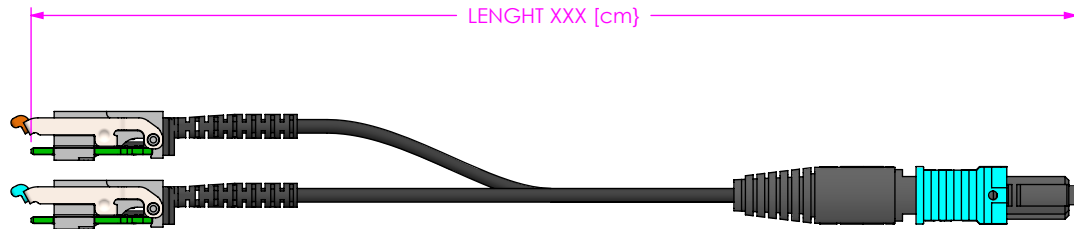
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e-Mail: info@SAMTEC.com code 55322

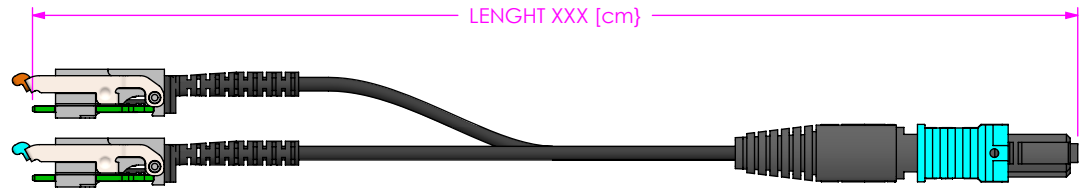
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DWG. NO.
ECUO-Y12-25-XXX-0-X-1-X-XX

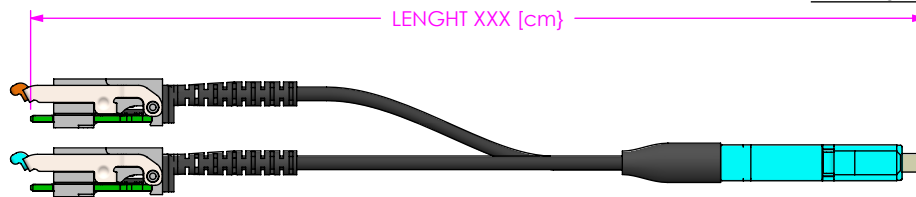
BY: JOSUE C. 08/25/2020 SHEET 1 OF 8



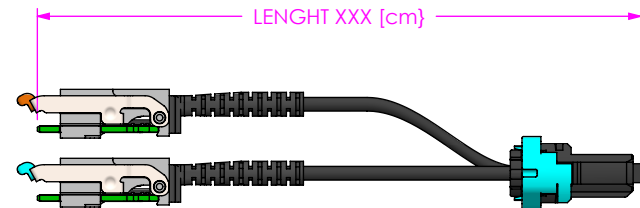
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PART NUMBER ECUO-Y12-25-XXX-0-1-1-7-27 SHOWN



PART NUMBER ECUO-Y12-25-XXX-0-1-1-7-2E SHOWN

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SHEET SCALE: 1:1

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:

OPTICAL FIREFLY ASSEMBLY

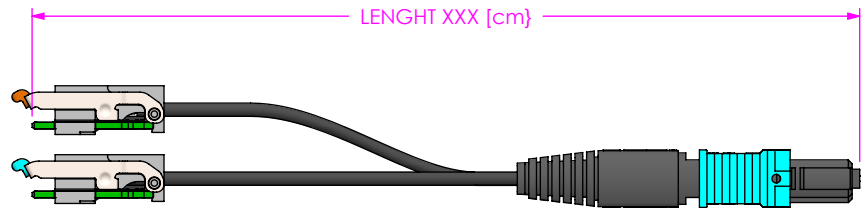
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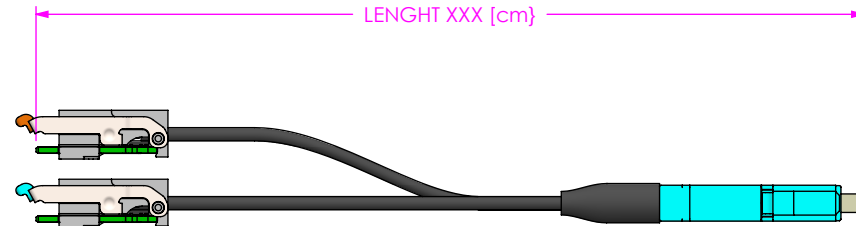
BY: JOSUE C.

08/25/2020

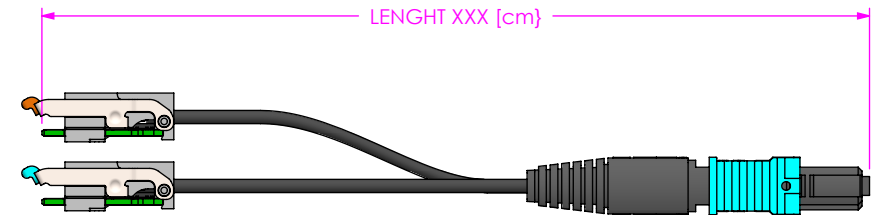
SHEET 2 OF 8



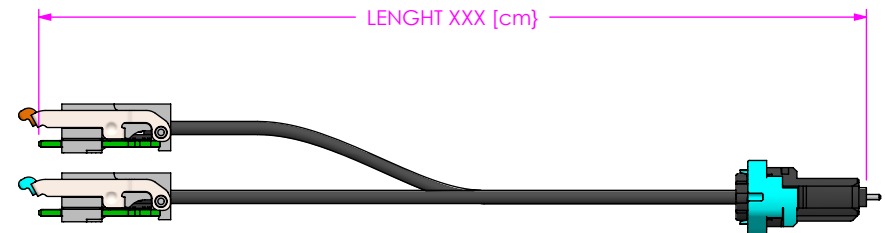
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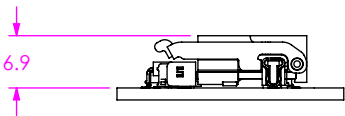
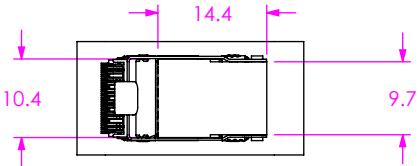
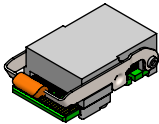


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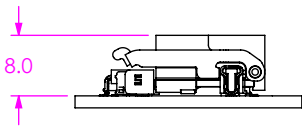
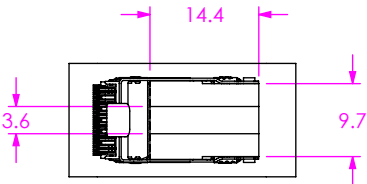
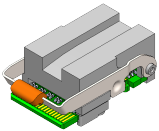


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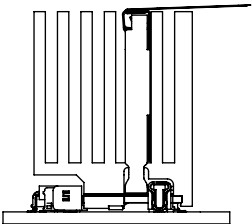
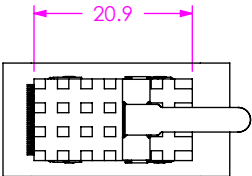
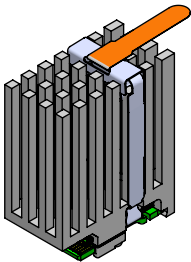
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DO NOT SCALE DRAWING	DESCRIPTION: OPTICAL FIREFLY ASSEMBLY
SHEET SCALE: 1:1	DWG. NO. ECUO-Y12-25-XXX-0-X-1-X-XX
	BY: JOSUE C. 08/25/2020 SHEET 3 OF 8



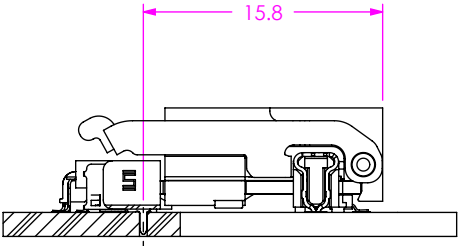
-1 FLAT HEAT SINK



-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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SHEET SCALE: 1:1

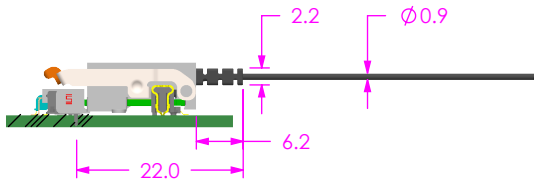
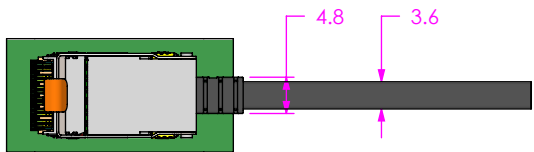


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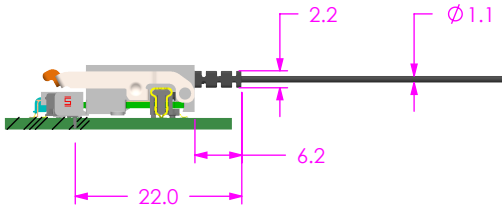
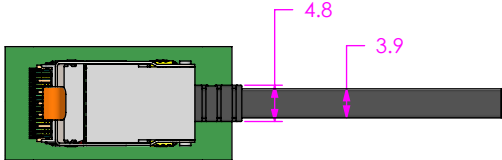
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DWG. NO.
ECUO-Y12-25-XXX-0-X-1-X-XX

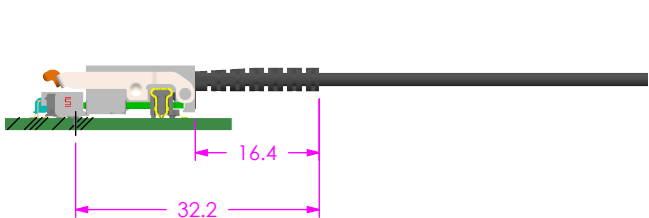
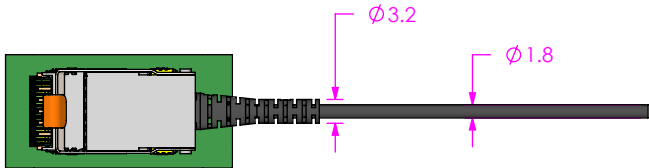
BY: JOSUE C. 08/25/2020 SHEET 4 OF 8



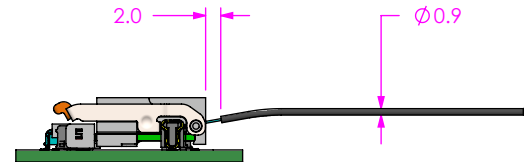
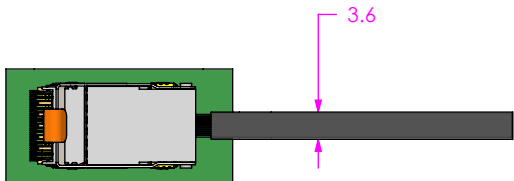
-5 FIBER TYPE, ≤ 50 cm LENGTH



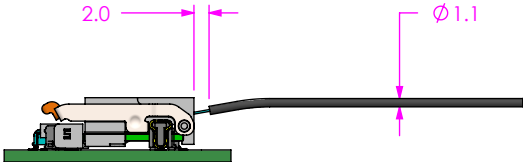
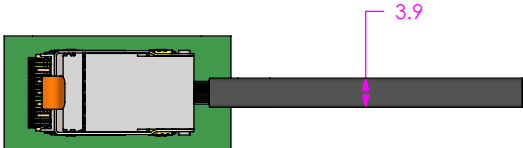
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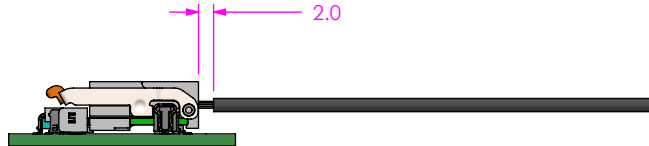
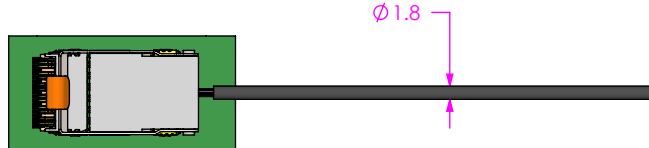
-7 FIBER TYPE



-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

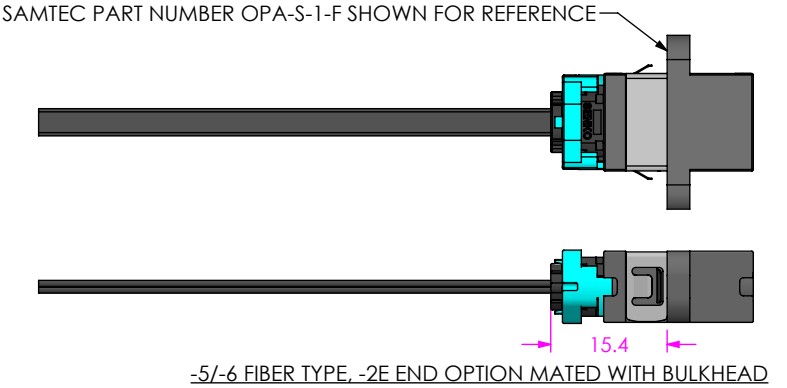
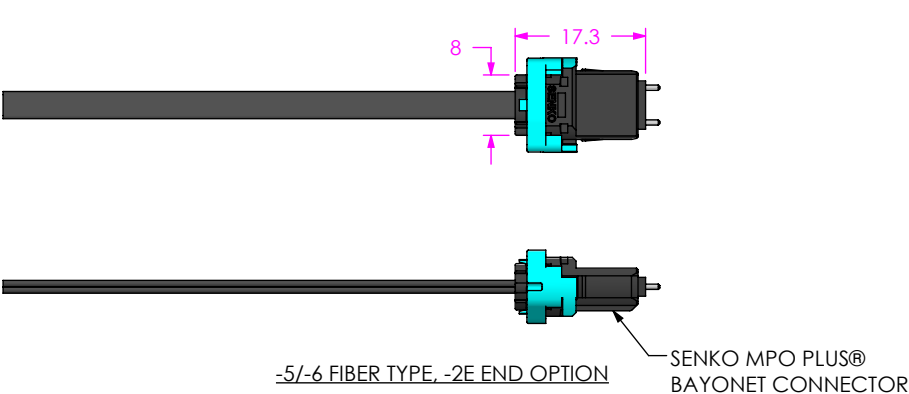
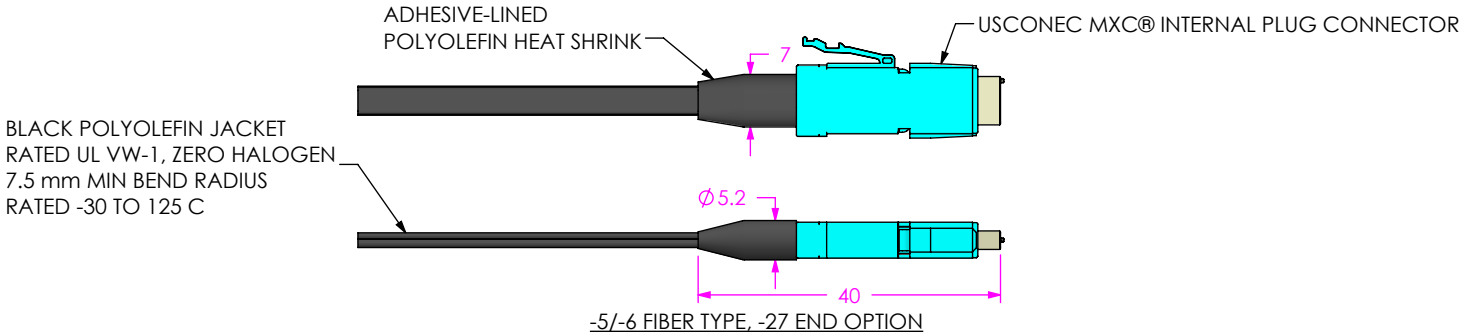
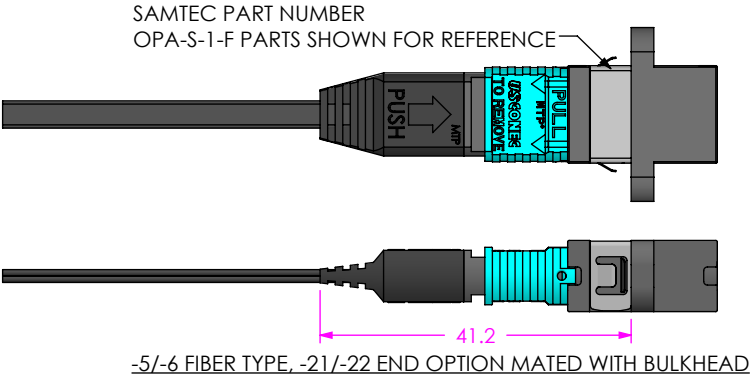
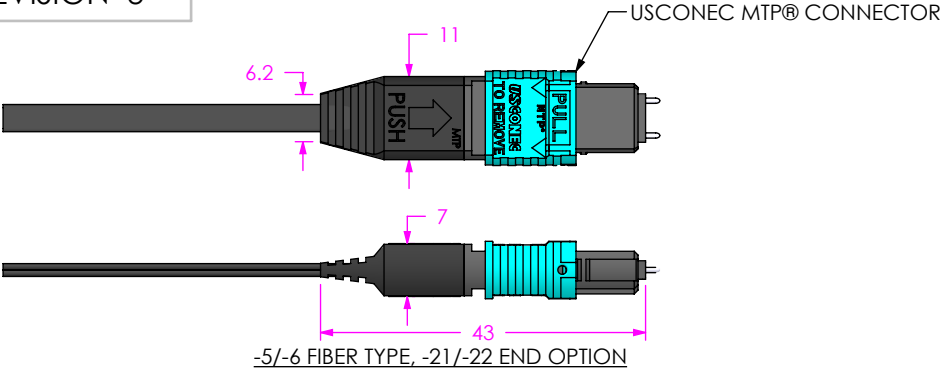
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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
OPTICAL FIREFLY ASSEMBLY

DWG. NO.
ECUO-Y12-25-XXX-0-X-1-X-XX

BY: JOSUE C. 08/25/2020 SHEET 5 OF 8



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

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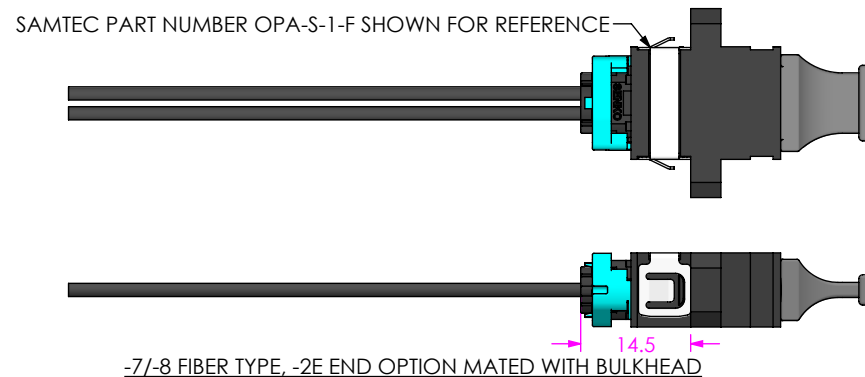
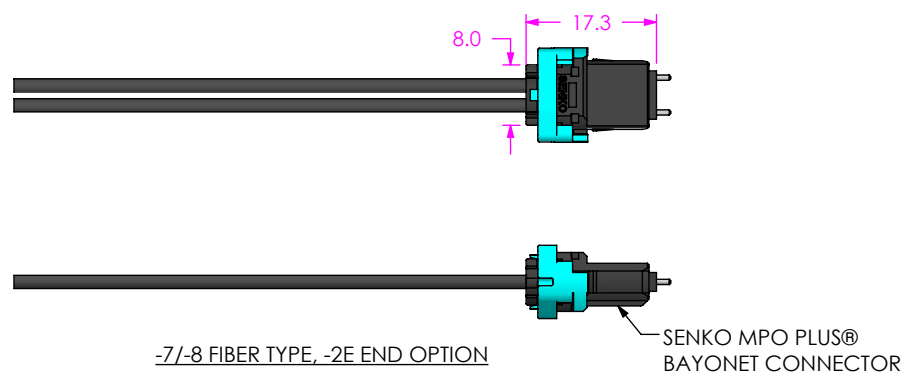
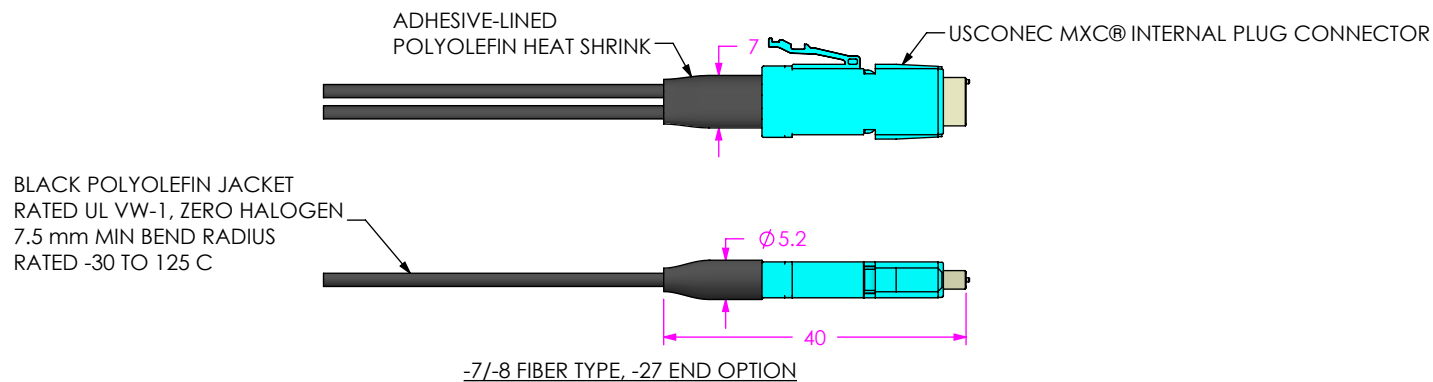
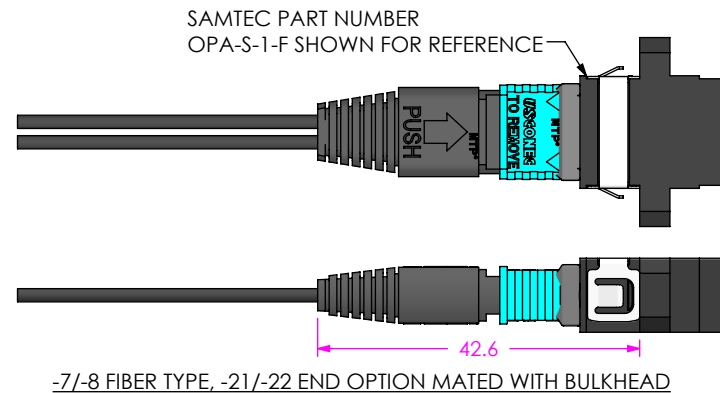
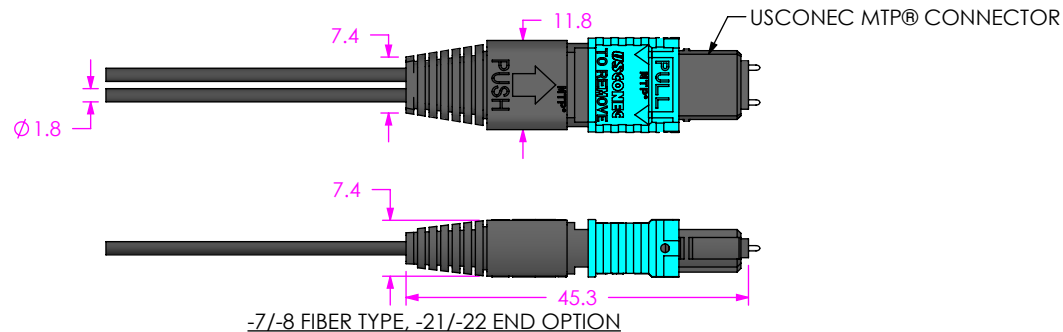
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SHEET SCALE: 1:1

DESCRIPTION:
OPTICAL FIREFLY ASSEMBLY

DWG. NO.
ECUO-Y12-25-XXX-0-X-1-X-XX

BY: JOSUE C. 08/25/2020 SHEET 6 OF 8



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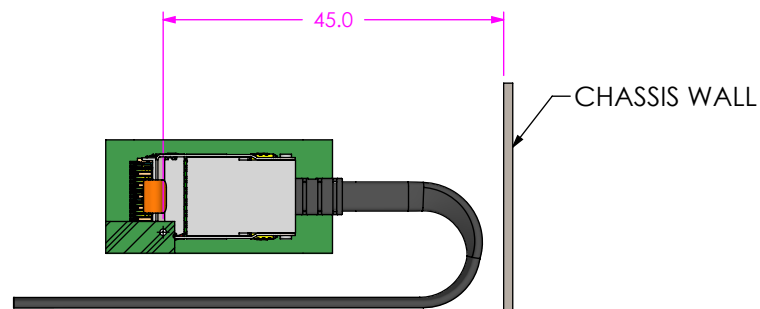
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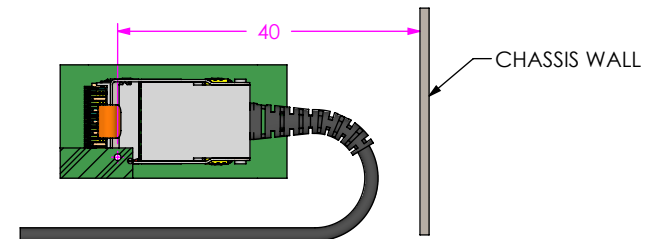
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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
OPTICAL FIREFLY ASSEMBLY
DWG. NO.
ECUO-Y12-25-XXX-0-X-1-X-XX

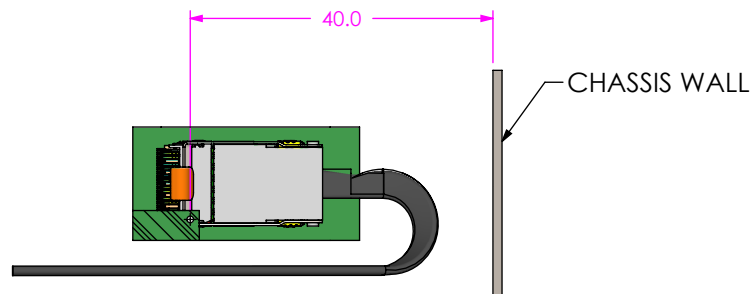
BY: JOSUE C. 08/25/2020 SHEET 7 OF 8



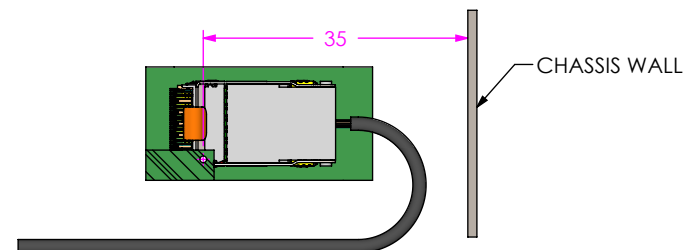
-5 FIBER TYPE RECOMMENDED CABLE ESCAPE CLEARANCE



-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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