

DO NOT SCALE FROM THIS PRINT

TABLE 1: ASSEMBLY LENGTH LIMITS (cm)

FIBER TYPE	MIN				MAX			
	END OPTION				HEAT SINK			
	-01	-02	-0A	-0C	-1	-2	-3	-4
-7	11	11	11	13	300	300	300	300
-8	9	9	9	11	300	300	300	300

TABLE 2: LENGTH TOLERANCE

ASSEMBLY LENGTH (cm)	TOLERANCE (cm)
000-016	±0.16
017-300	±1%

PTUO-04-G3-XXX-0-X-1-X-XX

WIDTH  
-04: x4 LANES

DATA RATE  
-G3: Gen3

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

END 2 OPTION

- 01: MTP® 12F MALE (SEE NOTE 4)
- 02: MTP® 12F FEMALE (SEE NOTE 4)
- 0A: VITA 66.1/66.4 READY (SEE NOTE 7)
- 0C: MT38999 MALE (SEE NOTE 8)

FIBER TYPE

- 7: BLACK LOOSE TUBE WITH BOOT
- 8: BLACK LOOSE TUBE

HEAT SINK

- 1: FLAT
- 2: PIN FIN
- 3: FLAT WITH GROOVE (SEE NOTE 2)
- 4: PCIe® PIN FIN (SEE NOTE 11)

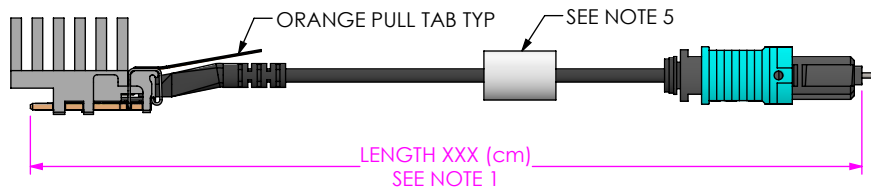


FIG 1  
PTUO-04-G3-XXX-0-4-1-7-01 SHOWN

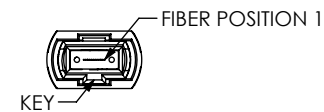


FIG 2  
PTUO-04-G3-XXX-0-4-1-7-02 SHOWN

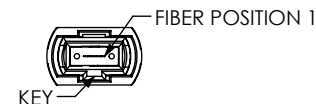


FIG 3  
PTUO-04-G3-XXX-0-4-1-7-0A SHOWN

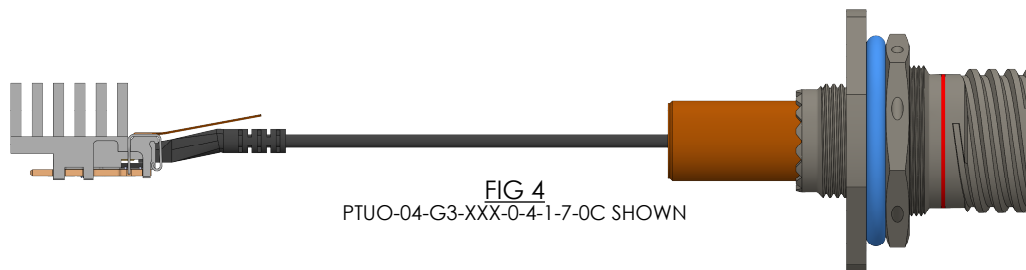
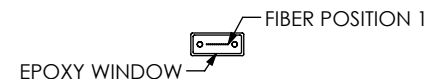
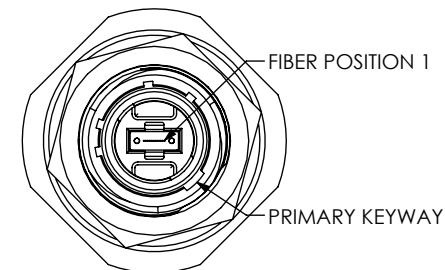


FIG 4  
PTUO-04-G3-XXX-0-4-1-7-0C SHOWN



- NOTES:
- CABLE LENGTH MEASURED FROM TIP OF PCB TO MT FERRULE FACE WHEN CABLE PULLED TAUGHT
  - GROOVE ALLOWS UP TO TWO ROUND JACKETED LOOSE TUBE CABLES TO PASS ABOVE HEAT SINK AND UNDER COLD PLATE
  - FIREFLY MUST BE INSTALLED IN A NO-TENSION STATE FREE FROM DYNAMIC FLEXING
  - ALL MTP® ARE INTERMATABLE WITH CONNECTORS ADHERING TO TIA-604-5
  - ALL CABLES WITH A LENGTH GREATER THAN 50 cm ARE LABELLED. LABEL CONTAINS PART NUMBER AND SERIAL NUMBER INFORMATION.
  - DUST CAPS REMOVED FROM ALL VIEWS FOR CLARITY
  - FOR USE WITH TE VITA 66.1 (2000974-1) AND VITA 66.4 (2226881-1) DAUGHTER CARD PART NUMBERS
  - ASSEMBLIES SHIPPED WITH AMPHENOL PART NUMBER CF-594711-01S INSTALLED
  - DIMENSIONED FROM THE CENTER OF THE ALIGNMENT PIN HOLE AS SHOWN ON THE UEC5/UCC8 CONNECTOR FOOTPRINT
  - DUE TO THE COMPLIANT NATURE OF FIBER CABLE AND THE FIBER BOOT COMPONENT, THE DIMENSIONS SHOWN ARE FOR GUIDANCE ONLY. EACH APPLICATION IS UNIQUE AND MAY RESULT IN UNIQUE CLEARANCE DIMENSIONS FOR THE CABLE ESCAPE.
  - MATED HEIGHT OF THE PCIe PIN FIN HEAT SINK COMPLIES WITH THE MAX HEIGHT ALLOWED FOR A SINGLE SLOT PCI EXPRESS ADD-IN CARD.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.  
TOLERANCES ARE:  
DECIMALS ANGLES  
X.X: ±0.3 [.01] 2°  
X.XX: ±0.13 [.005]  
X.XXX: ±0.051 [.0020]

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



520 PARK EAST BLVD., NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 53322

DESCRIPTION:  
PTUO OPTICAL CABLE ASSEMBLY

DWG. NO. PTUO-04-G3-XXX-0-X-1-X-XX

BY: A BAUMER 8/9/2022 SHEET 1 OF 5



FIG 5  
PTUO-04-G3-XXX-0-4-1-8-01 SHOWN

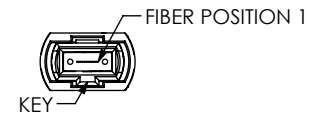


FIG 6  
PTUO-04-G3-XXX-0-4-1-8-02 SHOWN

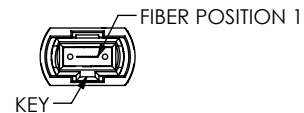


FIG 7  
PTUO-04-G3-XXX-0-4-1-8-0A SHOWN

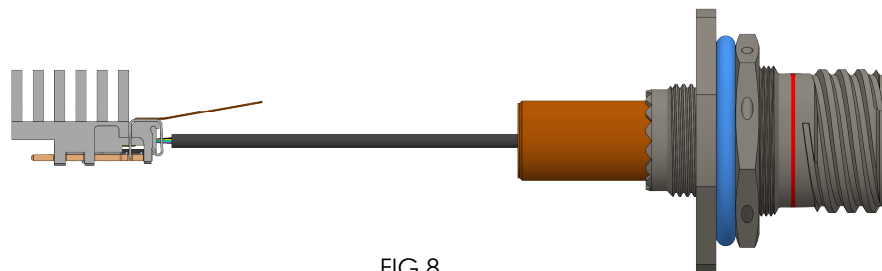
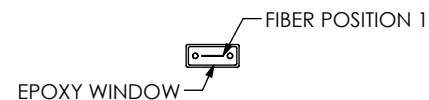
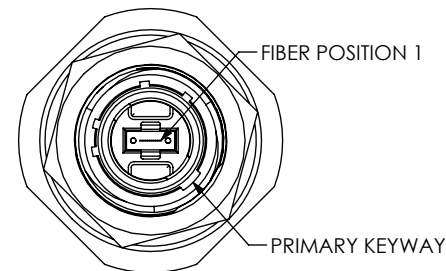



FIG 8  
PTUO-04-G3-XXX-0-4-1-8-0C SHOWN



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<p>SHEET SCALE: 1:1</p>	<p>DESCRIPTION: PTUO OPTICAL CABLE ASSEMBLY</p>
	<p>DWG. NO. PTUO-04-G3-XXX-0-X-1-X-XX</p>
	<p>BY: A BAUMER 8/9/2022 SHEET 2 OF 5</p>

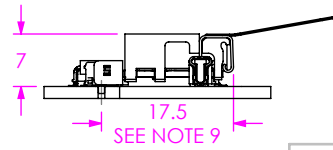
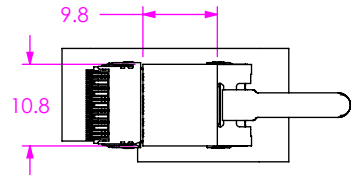
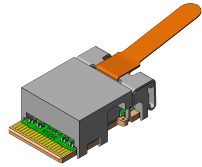


FIG 9  
-1 HEAT SINK OPTION SHOWN

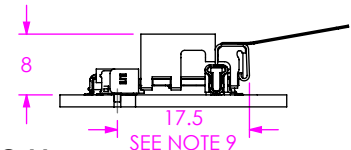
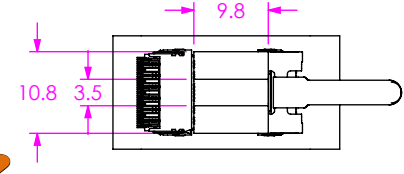
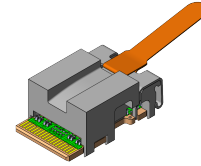


FIG 11  
-3 HEAT SINK OPTION SHOWN

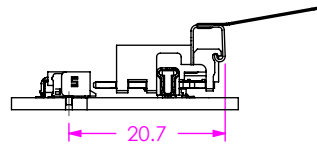


FIG 13  
KEEP OUT FOR HEAT SINKS -1/-2/-3/-4  
REFER TO UEC5 FOOTPRINT DRAWING  
FOR DETAILED KEEP OUT AREAS

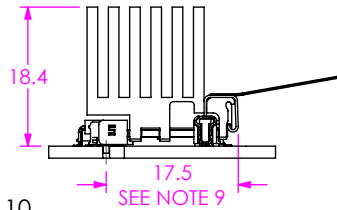
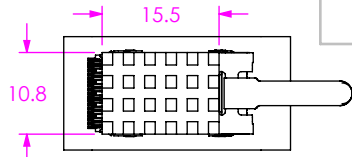
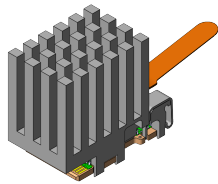


FIG 10  
-2 HEAT SINK OPTION SHOWN

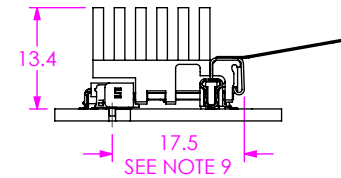
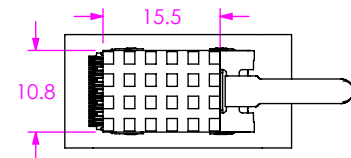
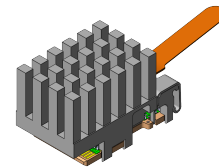


FIG 12  
-4 HEAT SINK OPTION SHOWN

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SHEET SCALE: 1:1

DESCRIPTION:  
PTUO OPTICAL CABLE ASSEMBLY

DWG. NO.  
PTUO-04-G3-XXX-0-X-1-X-XX

BY: A BAUMER 8/9/2022 SHEET 3 OF 5

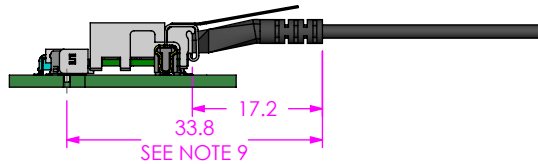
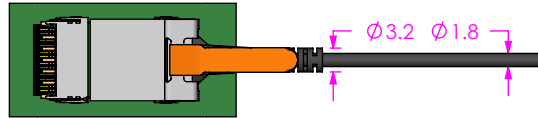


FIG 14  
-7 FIBER TYPE OPTION DETAIL

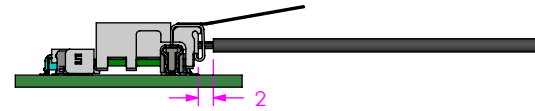
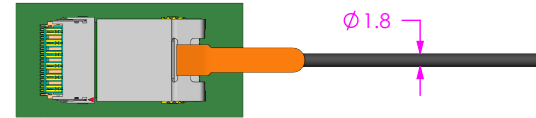


FIG 15  
-8 FIBER TYPE OPTION DETAIL

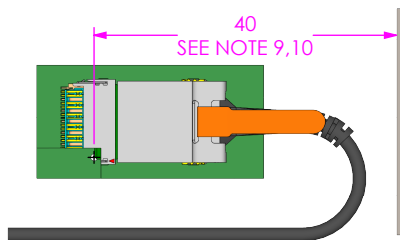


FIG 16  
-7 FIBER TYPE OPTION CABLE ESCAPE DETAIL

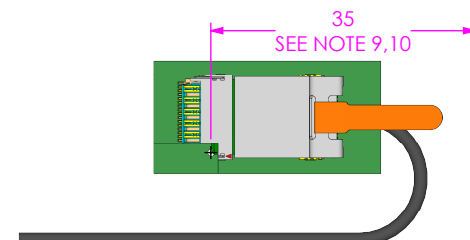


FIG 17  
-8 FIBER TYPE OPTION CABLE ESCAPE DETAIL

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DWG. NO.  
PTUO-04-G3-XXX-0-X-1-X-XX

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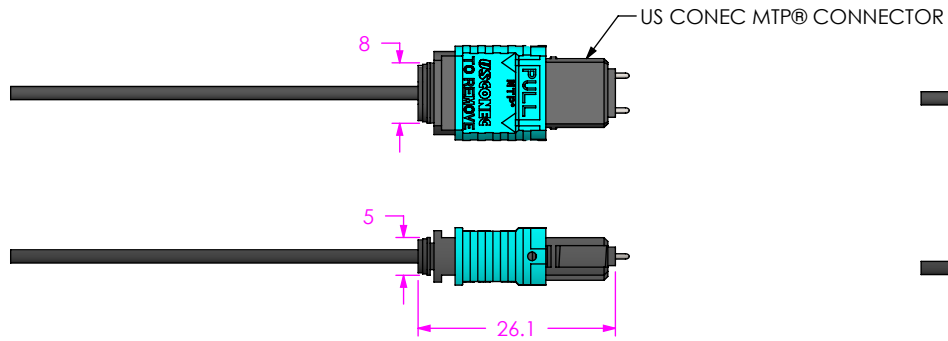


FIG 18  
-01/-02 END 2 OPTION DETAIL

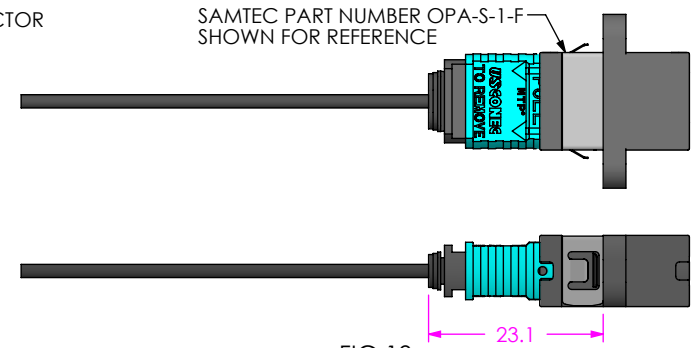


FIG 19  
-01/-02 END 2 OPTION MATED BULKHEAD DETAIL

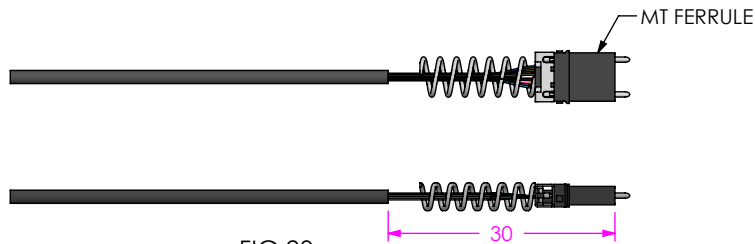


FIG 20  
-0A END 2 OPTION DETAIL

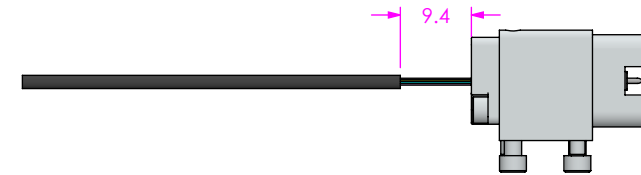


FIG 21  
-0A END 2 OPTION INSTALLED IN CONNECTOR HOUSING DETAIL  
(CONNECTOR HOUSING NOT INCLUDED, SHOWN FOR REFERENCE ONLY)

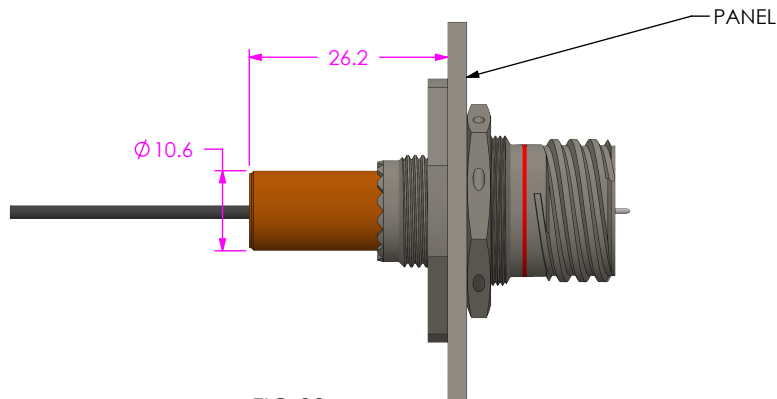


FIG 22  
-0D END 2 OPTION DETAIL

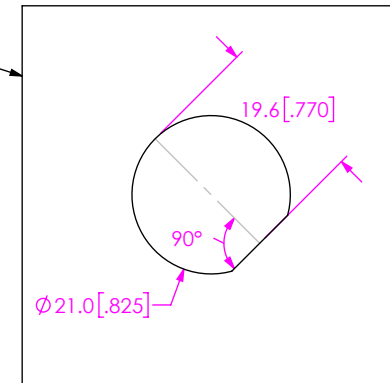


FIG 23  
-0D END 2 OPTION RECOMMENDED PANEL CUTOUT mm [in]

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SHEET SCALE: 1:1

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BY: A BAUMER 8/9/2022 SHEET 5 OF 5