REVISION G

DO NOT SCALE FROM THIS PRINT

NOTES:
1. **SMALL FORM-FACTOR PLUGABLE CABLE ASSEMBLY (MATES WITH MECT AND SFPC SERIES).**
2. © REPRESENTS A CRITICAL DIMENSION.
3. PARTS TO BE PROCESSED PER SAMTEC ACCEPTABILITY REQUIREMENTS: CO-XX-ML-2000-M "CABLE ASSEMBLY WORKMANSHIP STANDARDS".
4. ALL ASSEMBLIES TO BE 100% ELECTRICALLY TESTED.
5. ALL ASSEMBLIES TO BE 100% HI-POT TESTED AT 300V.
6. ITEM 9 TO BE CENTERED ON ITEM 3 ON BOTH ENDS OF THE CABLE AS SHOWN. ITEM 9 TO CONTAIN: LINE 1 - PART NUMBER "SFPE-010-XXXX-XX-XX", LINE 2 - SHOP ORDER NUMBER "XXXXXX", AND LINE 3 - DATE CODE "XXXXX". NUMERIC REVISION PRODUCT WILL HAVE ADDITIONAL LABEL INDICATING "RELEASE FOR LIMITED PRODUCTION".
7. FOR PROCESSING INFORMATION ON SUB ASSEMBLIES, REFERENCE SUB-SFPE-010-XX-XX-XX TRAVELER.XLS.
8. FOR SUB-ASSEMBLY AND FINISHED GOOD PACKAGING REQUIREMENTS, REFERENCE PACKAGING STANDARD CO-HD-WI-3033-M.
9. PANEL PCB-102388-SFPE-010 YIELDS (10) PCB-102388-SFPE-010 BOARDS.
10. CABLE ASSEMBLIES GREATER THAN 3000MM WILL NOT BE SUPPORTED BY SI TEST REPORTS.

ESD SENSITIVE

THIS PRODUCT MANUFACTURED WITH LEAD-FREE PROCESSING

DESIGNED & DIMENSIONED IN MILLIMETERS[INCHES]

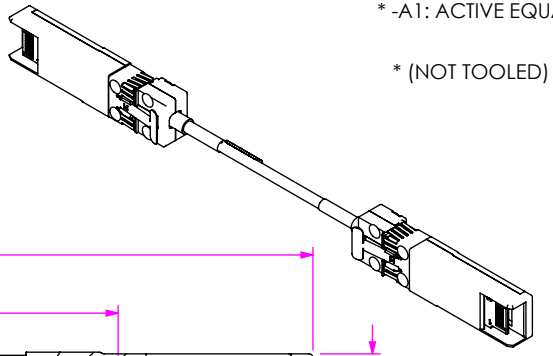
SFPE-010-XXXX-XX-XX

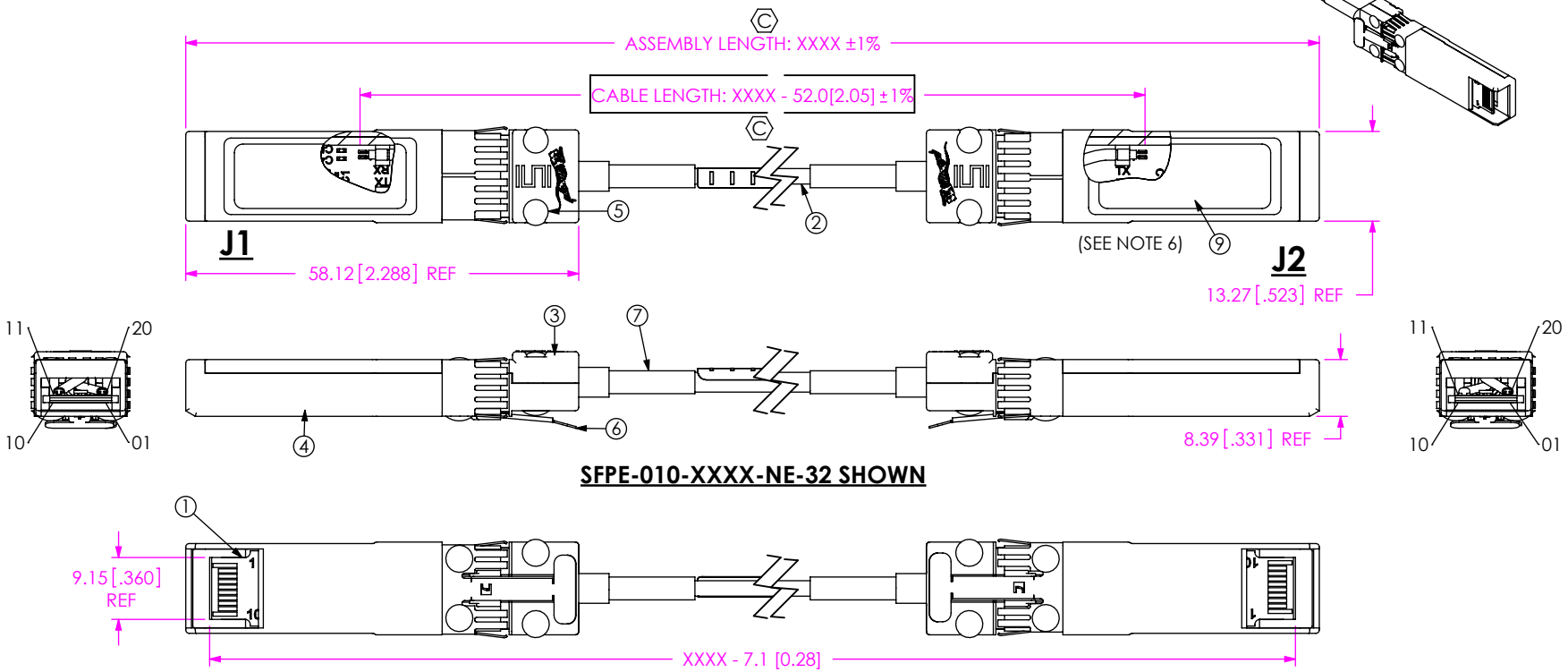
ASSEMBLYLENGTH (MM)
0305-9999 (SEE NOTE 10)
-1000
-2000
-3000
(STOCKED LENGTHS)

WIRE GAUGE
-32: 32AWG 100 OHM

EQUALIZATION
-NE: NON EQUALIZED
* -P1: PASSIVE EQUALIZATION
* -A1: ACTIVE EQUALIZATION

* (NOT TOOLED)





SFPE-010-XXXX-NE-32 SHOWN

SFPE-010-XXXX-NE-32 BOM

ITEM NO.	PART NUMBER	DESCRIPTION	QUANTITY	MATERIAL
1	SUB-SFPE-010-XX-XX-XX-XXXX	SUB ASSEMBLY	2	SUB ASSEMBLY
2	HSIO-32100-09	TWINAX CABLE	1	SUB ASSEMBLY
3	SFPE-H-01	HOUSING, TOP	2	ZAMAK 3
4	SFPE-H-02	HOUSING, BOTTOM	2	SUB ASSEMBLY
5	RVT-01.5-09.5-001	FASTENER - RIVET	8	LOW CARBON STEEL
6	LTC-26	LATCH	2	STAINLESS STEEL
7	HST-0.187-02-BLK	HEAT SHRINK	4	POLYOLEFIN
8	CUT-0.250	COPPER TAPE	2	COPPER TAPE
9	HDRL-01	LABEL	2	SELF LAMINATING VINYL
10	LABEL-ET	LABEL	1	VINYL

TOLERANCES DO NOT APPLY TO REFERENCE DIMENSIONS.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
TOLERANCES ARE:
DECIMALS: X.X: ±0.3 [.01] X.XX: ±0.13 [.005] X.XXX: ±0.051 [.0020]
ANGLES: 2 °

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DO NOT SCALE DRAWING SHEET SCALE: 1:1

F:\DWG\MISC\MKTG\SFPE-010-XXXX-XX-XX-MKT.SLDDRW

samtec
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

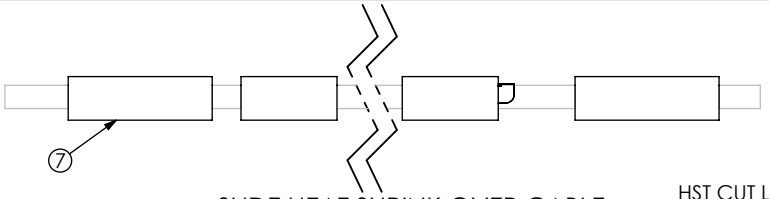
DESCRIPTION: SFP+ EYE SPEED CABLE ASSEMBLY

DWG. NO. SFPE-010-XXXX-XX-XX

BY: ANDREW C 08/31/2009 SHEET 1 OF 4

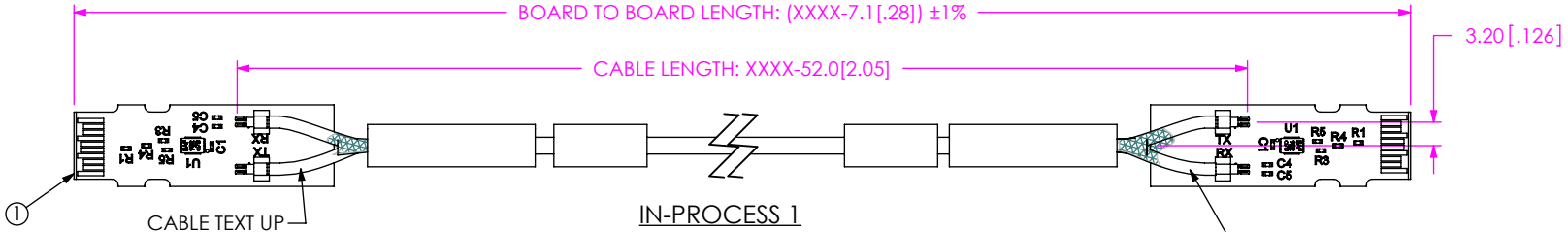
REVISION G

ESD SENSITIVE



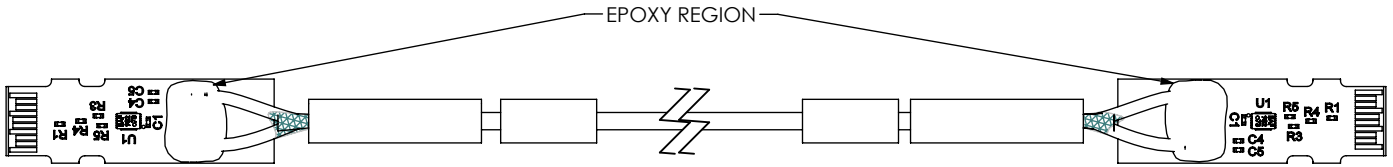
SLIDE HEAT SHRINK OVER CABLE
BEFORE STRIPPING INSULATION

HST CUT LENGTHS: (NOT TO SCALE)
INNER: 19.0 [0.75]
OUTER: 31.8 [1.25]



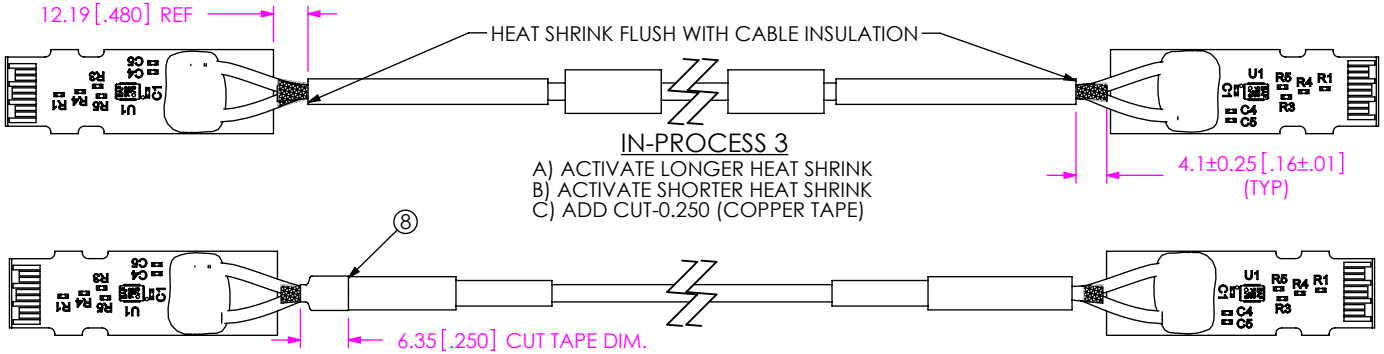
IN-PROCESS 1

SOLDER CABLE TO PCB SUB
END 1 TXD LINE GOES TO END 2 RXD
END 1 RXD GOES TO END 2 TXD



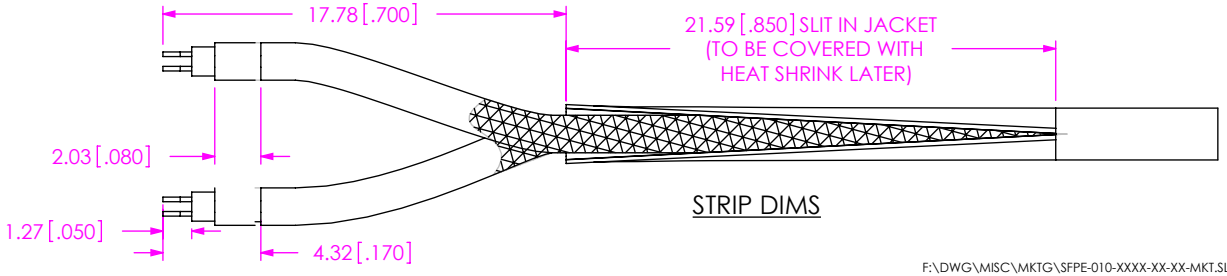
IN-PROCESS 2

APPLY EPOXY



IN-PROCESS 3

A) ACTIVATE LONGER HEAT SHRINK
B) ACTIVATE SHORTER HEAT SHRINK
C) ADD CUT-0.250 (COPPER TAPE)



STRIP DIMS

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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 55322

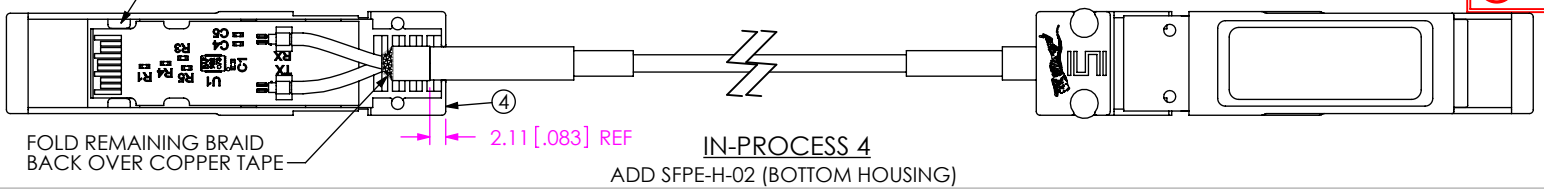
DESCRIPTION:
SFP+ EYE SPEED CABLE ASSEMBLY

DWG. NO.
SFPE-010-XXXX-XX-XX

BY: ANDREW C 08/31/2009 SHEET 2 OF 4

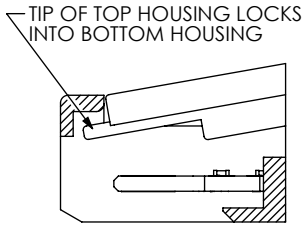
REVISION G

ESD SENSITIVE

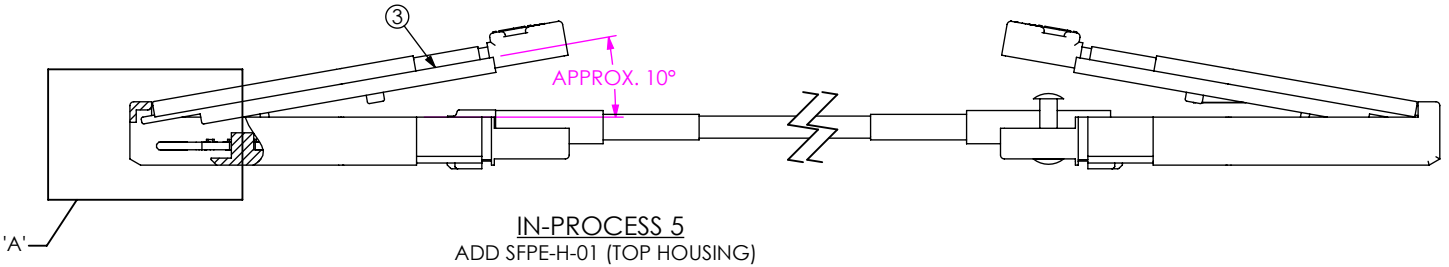


IN-PROCESS 4

ADD SFPE-H-02 (BOTTOM HOUSING)

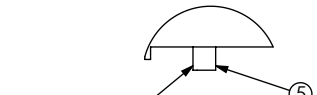


DETAIL 'A'
SCALE 2 : 1

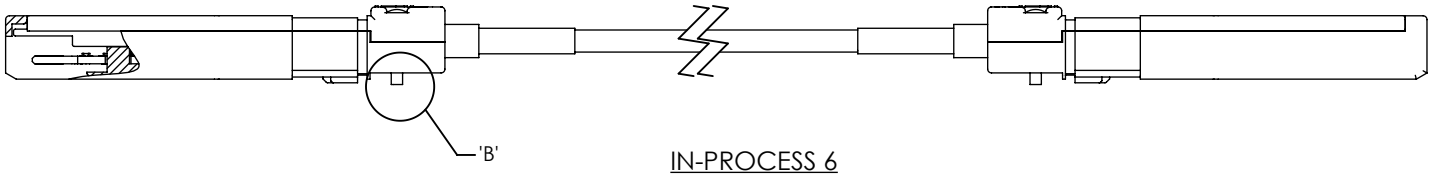


IN-PROCESS 5

ADD SFPE-H-01 (TOP HOUSING)

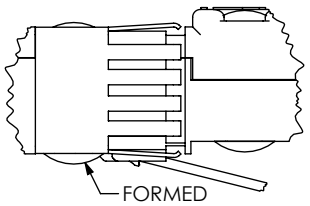


DETAIL 'B'
SCALE 2 : 1

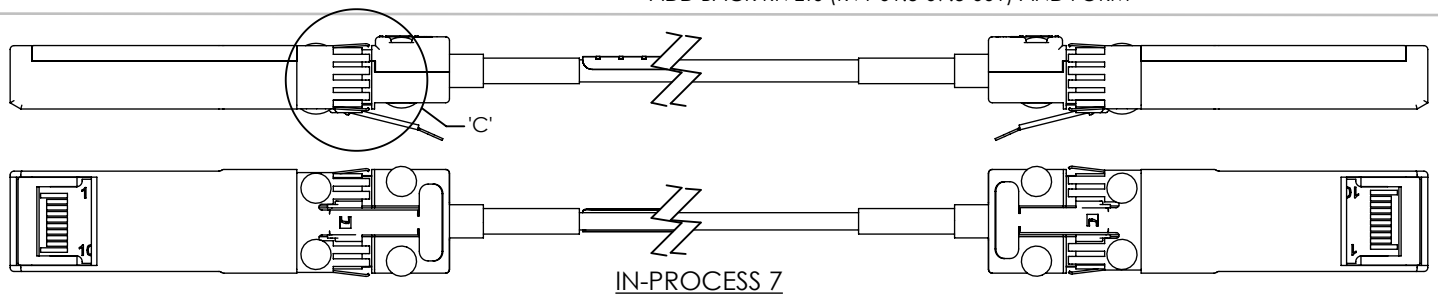


IN-PROCESS 6

ADD BACK RIVETS (RVT-01.5-09.5-001) AND FORM

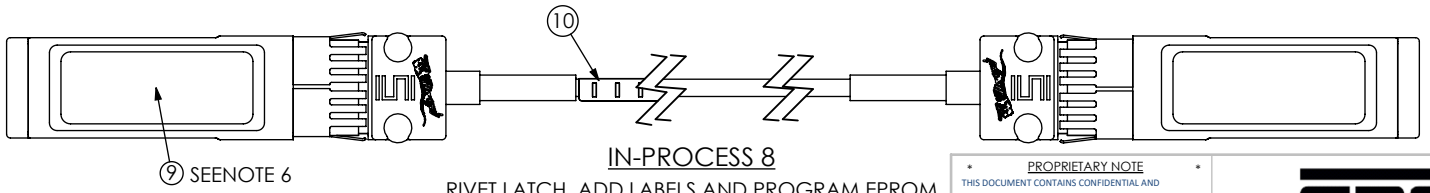


DETAIL 'C'
SCALE 2 : 1



IN-PROCESS 7

ADD LATCH, ADD FRONT RIVETS AND FORM



IN-PROCESS 8

RIVET LATCH, ADD LABELS AND PROGRAM EPROM

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e-Mail info@SAMTEC.com code 55322

DO NOT SCALE DRAWING

SHEET SCALE: 1:1

DESCRIPTION:
SFP+ EYE SPEED CABLE ASSEMBLY

DWG. NO.
SFPE-010-XXXX-XX-XX

BY: ANDREW C 08/31/2009 SHEET 3 OF 4

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REVISION G

TABLE 1 - PINOUT				
J1	**NAME**		**NAME**	**J1**
1	VEET		VEET	20
2	TX_FAULT		TD-	19
3	TX_DISABLE		TD+	18
4	SDA		VEET	17
5	SCL		VCCT	16
6	MOD_ABS		VCCR	15
7	RSO		VEER	14
8	RX_LOS		RD+	13
9	RS1		RD-	12
10	VEER		VEER	11
TD-/TD+ TRANSMITS TO RD-/RD+				
PINS 1, 2, 6, 8, 10, 11, 14, 17, 20 ARE **GROUND**				
PINS 7, 9 ARE **NO CONNECTS**				

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SHEET SCALE: 1:1

DESCRIPTION: SFP+ EYE SPEED CABLE ASSEMBLY

DWG. NO. SFPE-010-XXXX-XX-XX

BY: ANDREW C 08/31/2009 SHEET 4 OF 4

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