

DO NOT SCALE FROM THIS PRINT

NOTES:

1. **SMALL FORM-FACTOR PLUGGABLE 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]

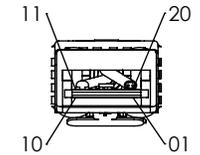
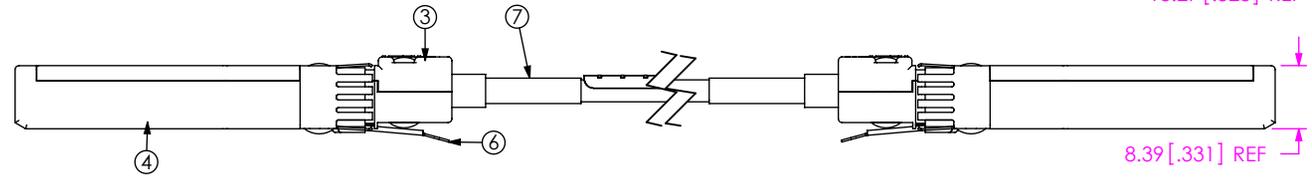
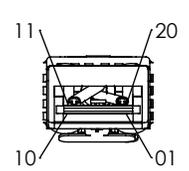
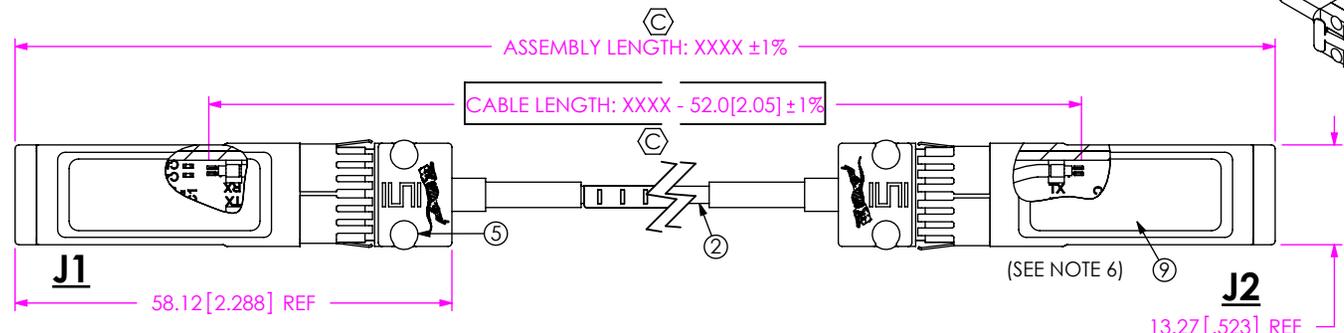
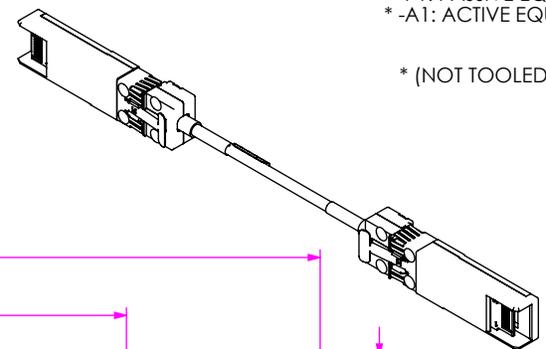
SFPE-010-XXXX-XX-XX

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

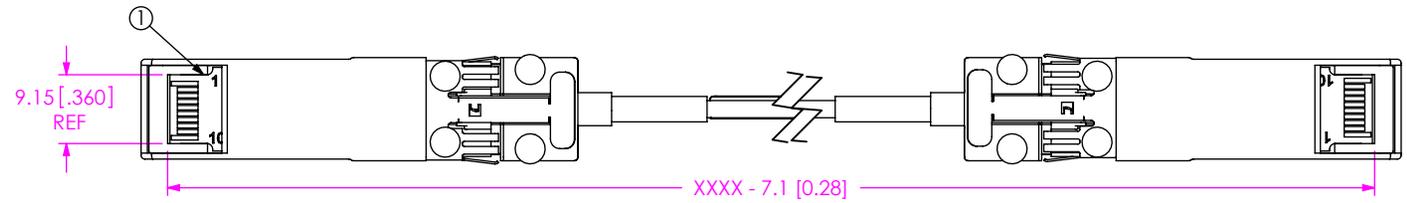
WIRE GAUGE
-32: 32AWG 100 OHM

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	TWNA X 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 ANGLES
X.X: ±0.3 [.01] 2°
X.XX: ±0.13 [.005]
X.XXX: ±0.051 [.0020]

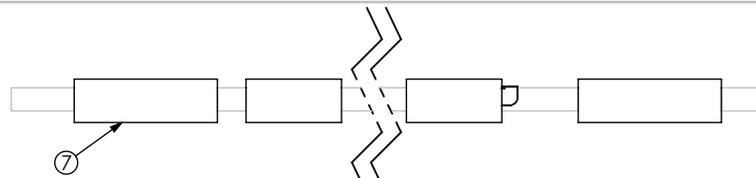
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e-Mail: info@SAMTEC.com code 55322

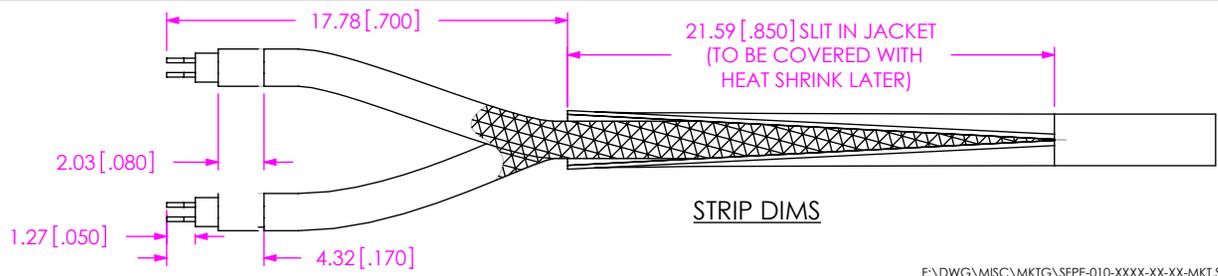
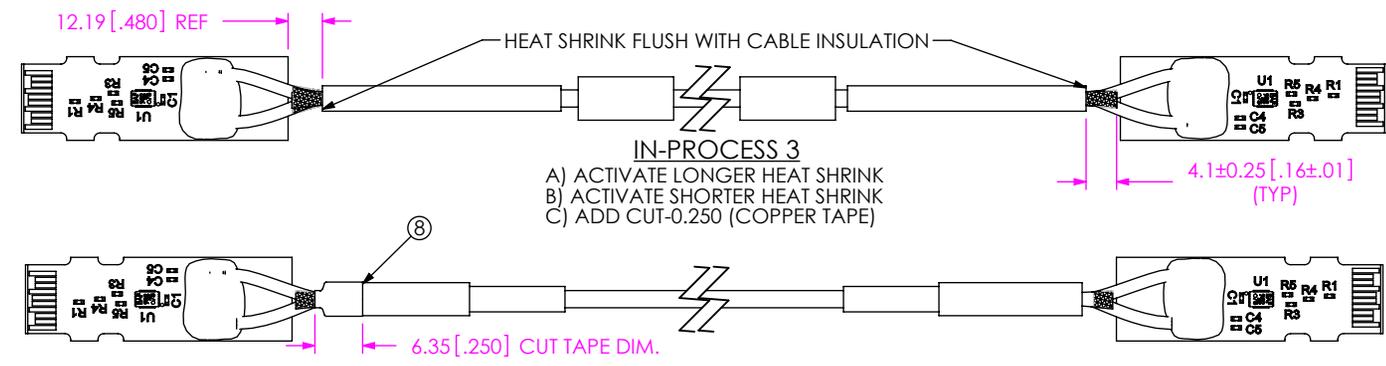
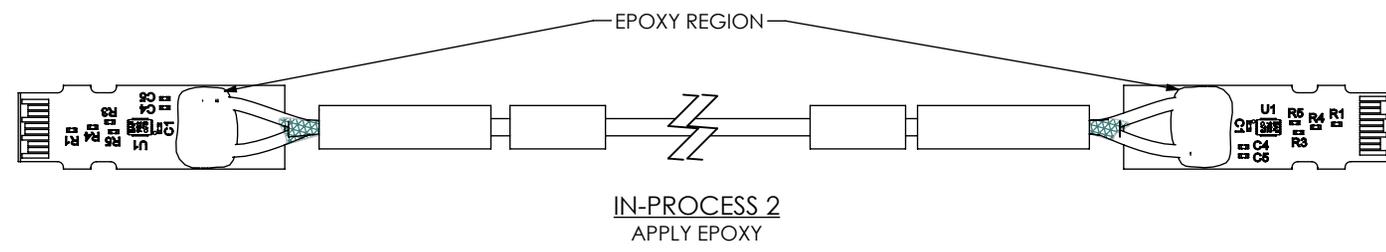
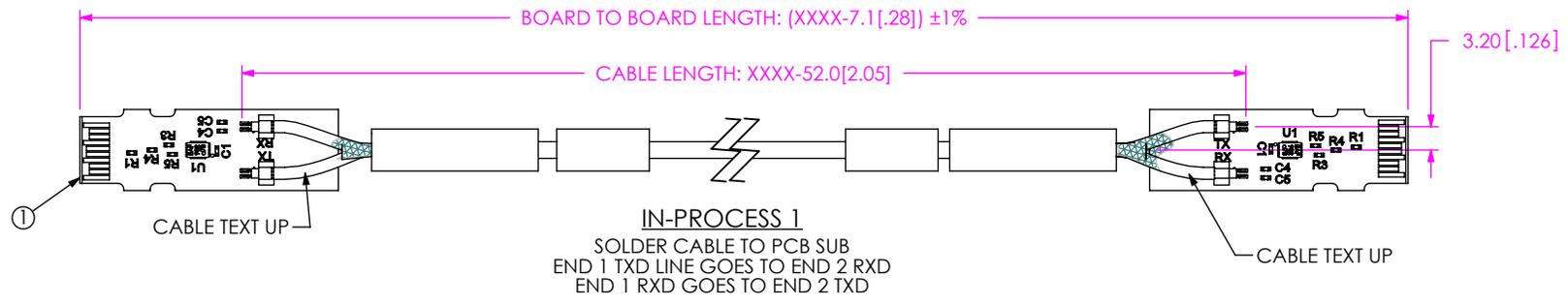
DO NOT SCALE DRAWING SHEET SCALE: 1:1

DESCRIPTION:
SFP+ EYE SPEED CABLE ASSEMBLY
DWG. NO.
SFPE-010-XXXX-XX-XX
BY: ANDREW C 08/31/2009 SHEET 1 OF 4



SLIDE HEAT SHRINK OVER CABLE BEFORE STRIPPING INSULATION

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



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DO NOT SCALE DRAWING

SHEET SCALE: 1:1

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DESCRIPTION:
SFP+ EYE SPEED CABLE ASSEMBLY

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

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

PLACE PCB SUB-ASSY INTO BOTTOM HOUSING
TAKE CARE TO ALIGN PCB NOTCHES WITH GUIDES IN HOUSING

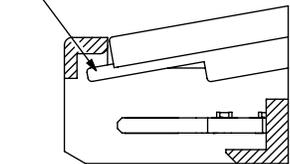


FOLD REMAINING BRAID
BACK OVER COPPER TAPE

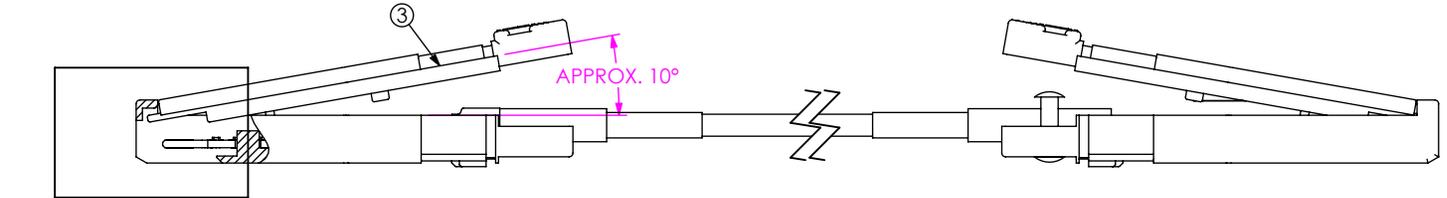
IN-PROCESS 4

ADD SFPE-H-02 (BOTTOM HOUSING)

TIP OF TOP HOUSING LOCKS
INTO BOTTOM HOUSING

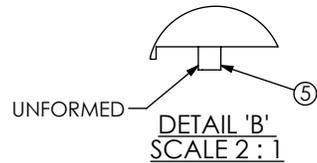


DETAIL 'A'
SCALE 2:1



IN-PROCESS 5

ADD SFPE-H-01 (TOP HOUSING)

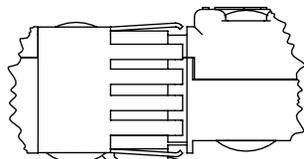


UNFORMED
DETAIL 'B'
SCALE 2:1

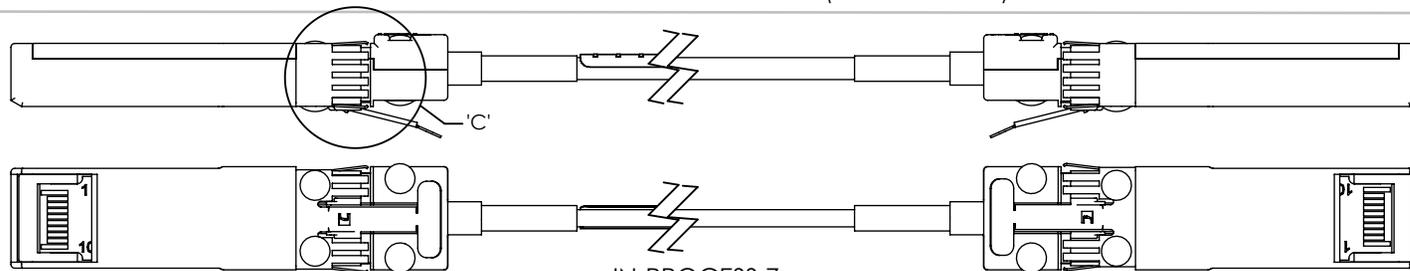


IN-PROCESS 6

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

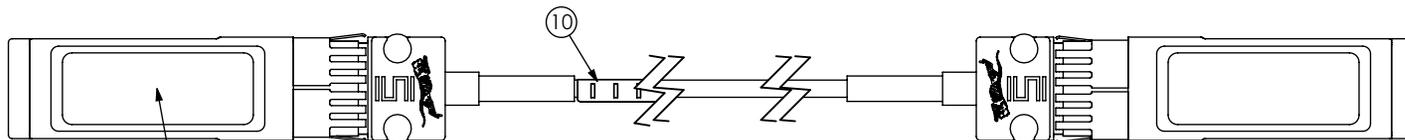


FORMED
DETAIL 'C'
SCALE 2:1



IN-PROCESS 7

ADD LATCH, ADD FRONT RIVETS AND FORM



IN-PROCESS 8

RIVET LATCH, ADD LABELS AND PROGRAM EPROM

9 SEENOTE 6

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DESCRIPTION:
SFP+ EYE SPEED CABLE ASSEMBLY

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

SHEET SCALE: 1:1

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

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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