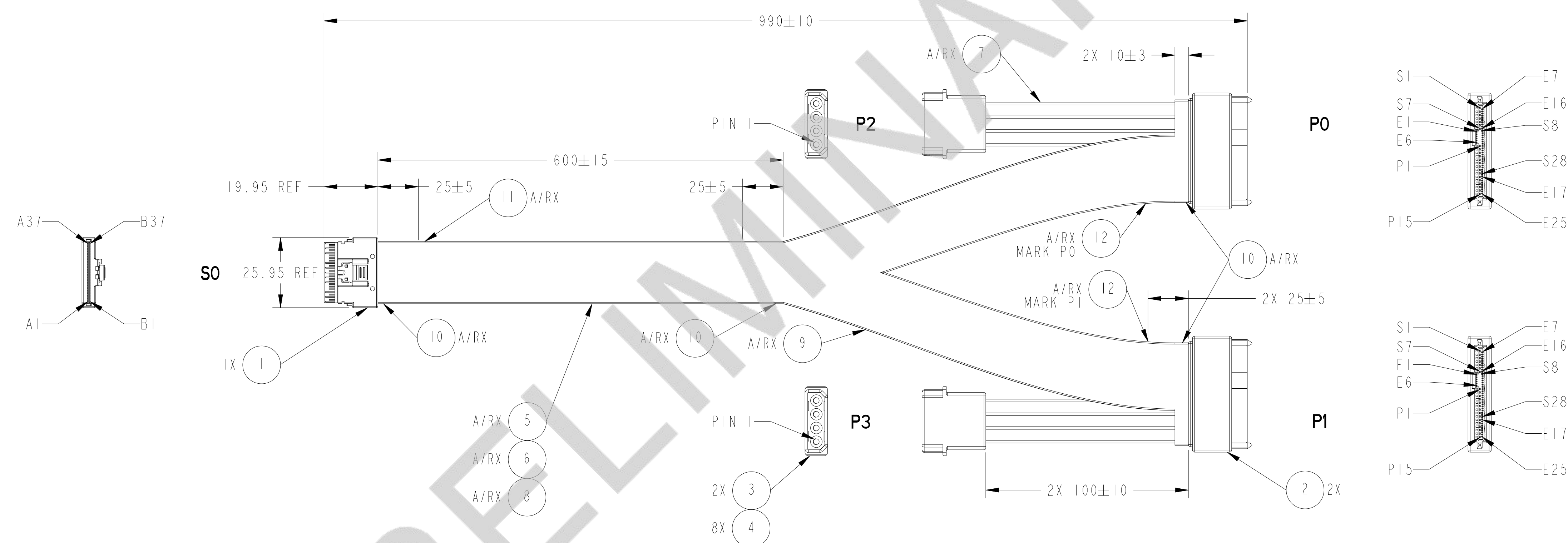


NOTES:

1. DRAWING NOT TO SCALE.
2. ELECTRICAL AND MECHANICAL PERFORMANCE SHALL MEET PCIE GEN 4 INDUSTRIAL STANDARD.
3. MARK LABEL (ITEM 11) WITH:
SFF-9402 U.2
PART NUMBER
REVISION XXX
DATE CODE DD/MM/YY
4. SEE SHEETS 2 AND 3 FOR CABLE WIRING TABLES AND RELATED NOTES.

REVISIONS				
REV	ECO	DESCRIPTION	DATE	APPROVED
001		PRELIMINARY RELEASE	30JAN18	M.L.I



ITEM	CALLOUT	DESCRIPTION	QUANTITY	NOTES
12	LABEL	LABEL, 40X14MM, WHITE, R2, HF	A/R	
11	LABEL	LABEL, 70X26MM, WHITE, R2, HF	A/R	SEE NOTE 3
10	TAPE	ACETATE TAPE: W=1 INCH	A/R	
9	SLEEVING	EXPANDO TUBE: OD=7MM, GREEN, VW-1, HF	A/R	
8	SLEEVING	EXPANDO TUBE: OD=10MM, GREEN, VW-1, HF	A/R	
7	WIRE	UL1007, 18AWG, 4IC, BLK/RED/YEL	A/R	
6	WIRE	UL1061, STRANDED	A/R	SEE NOTE 4
5	CABLE	SAS CABLE: UL20744, 92.5 OHM DIFF, PCIE GEN 4, VW-1, HATURAL, HF	A/R	
4	CONNECTOR TERMINALS	LP4 CONNECTOR TERMINALS, POWER, MALE, BRS, TIN, 18-24#	8	
3	CONNECTOR HOUSING	LP4 CONNECTOR HOUSING, POWER, FEMALE	2	SEE NOTE 4
2	CONNECTOR	SFF-8639, PCIE, 68 POS, STR	2	SEE NOTE 4
1	CONNECTOR	SFF-8654, 74P, STRAIGHT, X8, PCIE GEN 4	1	SEE NOTE 4

APPROVALS		DATE
DRAWN BY	D. MONTGOMERY	23JAN18
APPROVED BY	M.L.I	30JAN18

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS.
TOLERANCES:
X.X ± 0.2 MM
X.XX ± 0.15 MM
X.XXX ± 0.050 MM
ANGLES ± 1°

BROADCOM

TITLE: CABLE, X8 SFF-8654 TO 2X SFF-8639 (U.2), WITH POWER, 1M

SCALE: 1.000

SIZE: D

DWG NO.: 5067-6682

REV: 001


SHEET: 1 OF 3

CONNECTOR SIGNAL	CONNECTOR	PIN/PAD	CONNECTOR	PIN/PAD	CONNECTOR SIGNAL	WIRE/CABLE
GND	S0	A1	P0	E15	GND	ITEM 5
Rx0+		A2		E14	PERp0	ITEM 5
Rx0-		A3		E13	PERn0	ITEM 5
GND		A4		E12/S22	GND	ITEM 5, NOTE 1
Rx1+		A5		S21	PERp1	ITEM 5
Rx1-		A6		S20	PERn1	ITEM 5
GND		A7		S19	GND	ITEM 5
SB7A		A8			NC	NOTE 2
SB4A		A9			NC	
GND/SB3A		A10		E9	GND	ITEM 5
SBA+		A11		E7	REFCLK+	ITEM 5
SBA-		A12		E8	REFCLK-	ITEM 5
GND		A13		S28	GND	ITEM 5
Rx2+		A14		S27	PERp2	ITEM 5
Rx2-		A15		S26	PERn2	ITEM 5
GND		A16		E22/S25	GND	ITEM 5, NOTE 1
Rx3+		A17		E21	PERp3	ITEM 5
Rx3-		A18		E20	PERn3	ITEM 5
GND		A19		E19	GND	ITEM 5
GND	B1	E9	GND	ITEM 5		
Tx0+	B2	E10	PETp0	ITEM 5		
Tx0-	B3	E11	PETn0	ITEM 5		
GND	B4	E12/S16	GND	ITEM 5, NOTE 1		
Tx1+	B5	S17	PETp1	ITEM 5		
Tx1-	B6	S18	PETn1	ITEM 5		
GND	B7	S19	GND	ITEM 5		
SBOA	B8	E23	SMCLK	ITEM 6, NOTE 4		
SB1A	B9	E24	SMDAT	ITEM 6, NOTE 4		
GND/SB2A	B10	E22	GND	ITEM 6, NOTE 4		
SB5A	B11	E5	PERST#	ITEM 6, NOTE 4		
SB6A	B12	P4	IFDET#	ITEM 6, NOTE 4		
GND	B13	S22	GND	ITEM 5		
Tx2+	B14	S23	PET2p	ITEM 5		
Tx2-	B15	S24	PET2n	ITEM 5		
GND	B16	S25/S28	GND	ITEM 5, NOTE 1		
Tx3+	B17	E17	PETp3	ITEM 5		
Tx3-	B18	E18	PETn3	ITEM 5		
GND	B19	E19	GND	ITEM 5		

CONNECTOR SIGNAL	CONNECTOR	PIN/PAD	CONNECTOR	PIN/PAD	CONNECTOR SIGNAL	WIRE/CABLE
GND	S0	A19	P1	E15	GND	ITEM 5
Rx4+		A20		E14	PERp0	ITEM 5
Rx4-		A21		E13	PERn0	ITEM 5
GND		A22		E12/S22	GND	ITEM 5, NOTE 1
Rx5+		A23		S21	PERp1	ITEM 5
Rx5-		A24		S20	PERn1	ITEM 5
GND		A25		S19	GND	ITEM 5
SB7B		A26			NC	NOTE 3
SB4B		A27			NC	
GND/SB3B		A28		E9	GND	ITEM 5
SBB+		A29		E7	REFCLK+	ITEM 5
SBB-		A30		E8	REFCLK-	ITEM 5
GND		A31		S28	GND	ITEM 5
Rx6+		A32		S27	PERp2	ITEM 5
Rx6-		A33		S26	PERn2	ITEM 5
GND		A34		S25/E22	GND	ITEM 5, NOTE 1
Rx7+		A35		E21	PERp3	ITEM 5
Rx7-		A36		E20	PERn3	ITEM 5
GND		A37		E19	GND	ITEM 5
GND	B19	E9	GND	ITEM 5		
Tx4+	B20	E10	PETp0	ITEM 5		
Tx4-	B21	E11	PETn0	ITEM 5		
GND	B22	E12/S16	GND	ITEM 5, NOTE 1		
Tx5+	B23	S17	PETp1	ITEM 5		
Tx5-	B24	S18	PETn1	ITEM 5		
GND	B25	S19	GND	ITEM 5		
SBOB	B26	E23	SMCLK	ITEM 6, NOTE 4		
SB1B	B27	E24	SMDAT	ITEM 6, NOTE 4		
GND/SB2B	B28	E22	GND	ITEM 6, NOTE 4		
SB5B	B29	E5	PERST#	ITEM 6, NOTE 4		
SB6B	B30	P4	IFDET#	ITEM 6, NOTE 4		
GND	B31	S22	GND	ITEM 5		
Tx6+	B32	S23	PET2p	ITEM 5		
Tx6-	B33	S24	PET2n	ITEM 5		
GND	B34	S25/S28	GND	ITEM 5, NOTE 1		
Tx7+	B35	E17	PETp3	ITEM 5		
Tx7-	B36	E18	PETn3	ITEM 5		
GND	B37	E19	GND	ITEM 5		

NOTES:

- CONNECT SHIELD OF DIFFERENTIAL PAIR TO INDICATED PIN/PAD AND SHORT TO SECOND INDICATED PIN/PAD.
- SHORT PIN/PAD S0-A8 TO S0-B9. NO DIRECT CONNECT S0-A8 TO CONNECTOR P0.
- SHORT PIN/PAD S0-A26 TO S0-B27. NO DIRECT CONNECT S0-A26 TO CONNECTOR P1.
- END TO END RESISTANCE OF INDICATED CONNECTION SHALL BE 750 MILLIOHM MAX.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS. TOLERANCES: X.X ± 0.2 MM X.XX ± 0.15 MM X.XXX ± 0.050 MM ANGLES ± 1°		 BROADCOM	
SCALE 1.000		TITLE CABLE, X8 SFF-8654 TO 2X SFF-8639 (U.2), WITH POWER, 1M	
SIZE D		DWG NO. 5067-6682	REV 001
		SHEET 2 OF 3	

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CONNECTOR	PIN/PAD	CONNECTOR SIGNAL	NOTES
P0/PI	S2	S0T+	NO CONNECT PIN/PAD SHALL NOT BE CONNECTED VIA CONNECTOR INTERNAL NOR VIA WIRE
	S3	S0T-	
	S5	S0R-	
	S6	S0R+	
	S9	S1T+	
	S10	S1T-	
	S12	S1R-	
	S13	S1R+	
	S15	RSVD	
	E1	RefClkI+	
	E2	RefClkI-	
	E3	3.3Vaux	
	E4	ePERSTI#	
	E6	RSVD	
	E16	RSVD	
	E25	DualPortEn#	
	P1	RSVD	
	P2	sPCleRst	
	P3	RSVD	
	P10	PRSNT#	
P11	Activity		
P0/PI	S1	GND	GROUND ALL PIN/PAD SHALL BE CONNECTED TO COMMON INDIVIDUAL CONNECTOR GROUND
	S4	GND	
	S7	GND	
	S8	GND	
	S11	GND	
	S14	GND	
	P5	GND	
	P6	GND	
P12	GND		

POWER WIRING TABLE						
POWER CONNECTOR	PIN	SYMBOL	CONNECTOR	PIN	WIRE	COLOR
P2	1	12V	P0	P13, P14, P15	ITEM 7	YELLOW
	2	GND		P12	ITEM 7	BLACK
	3	GND		P6	ITEM 7	BLACK
	4	5V		P7, P8, P9	ITEM 7	RED
P3	1	12V	P1	P13, P14, P15	ITEM 7	YELLOW
	2	GND		P12	ITEM 7	BLACK
	3	GND		P6	ITEM 7	BLACK
	4	5V		P7, P8, P9	ITEM 7	RED

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X.X ± 0.2 MM
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X.XXX ± 0.050 MM
ANGLES ± 1°



TITLE
CABLE, X8 SFF-8654 TO 2X
SFF-8639 (U.2), WITH POWER, 1M

SCALE 1.000		SIZE D	DWG NO. 5067-6682	REV 001	SHEET 3 OF 3
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