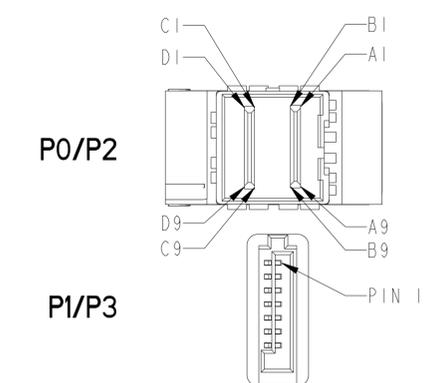
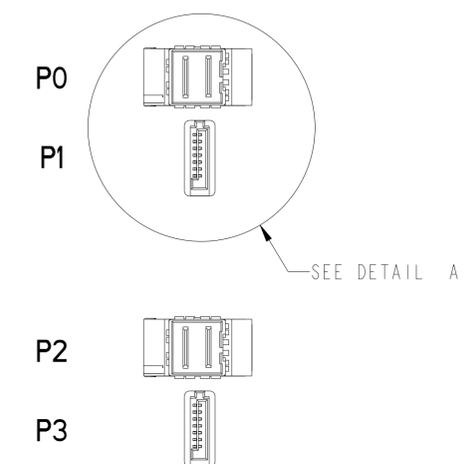
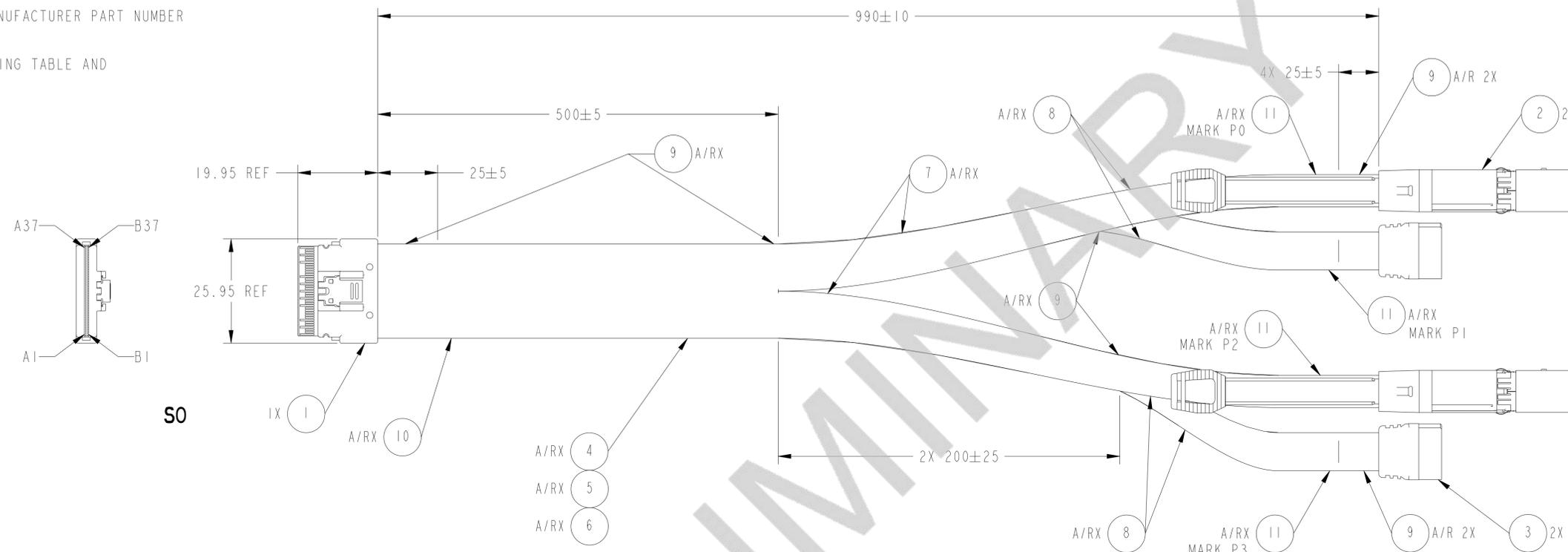


**NOTES:**

- DRAWING NOT TO SCALE.
- ELECTRICAL AND MECHANICAL PERFORMANCE SHALL MEET SAS 4.0 AND PCIE GEN 4 INDUSTRIAL STANDARDS.
- MARK LABEL (ITEM 10) WITH:  
 VALIDATION CABLE - SAS4/PCIE4 W/REFCLKS  
 BROADCOM PART NUMBER  
 BROADCOM REVISION XXX  
 DATE CODE DD/MM/YY  
  
 SECONDARY MARKING WITH MANUFACTURER PART NUMBER AND REVISION ACCEPTABLE.
- SEE SHEET 2 FOR CABLE WIRING TABLE AND RELATED NOTES.

REVISIONS				
REV	ECO	DESCRIPTION	DATE	APPROVED
001		PRELIMINARY RELEASE	20JUN18	B. LIMA



DETAIL A  
SCALE 3.000

ITEM	CALLOUT	DESCRIPTION	QUANTITY	NOTES
11	LABEL	LABEL, 40X14MM, WHITE, R2, HF	A/R	
10	LABEL	LABEL, 70X26MM, WHITE, R2, HF	A/R	SEE NOTE 3
9	TAPE	ACETATE TAPE: W=1 INCH	A/R	
8	SLEEVING	EXPANDO TUBE: OD=5MM, GREEN, VW-1, HF	A/R	
7	SLEEVING	EXPANDO TUBE: OD=7MM, GREEN, VW-1, HF	A/R	
6	SLEEVING	EXPANDO TUBE: OD=10MM, GREEN, VW-1, HF	A/R	
5	WIRE	UL1061, STRANDED	A/R	SEE NOTE 4
4	CABLE	SAS CABLE: UL20744, 92.5Ω ±10% DIFF, 28-32AWG, SAS 4.0, PCIE GEN 4, VW-1, NATURAL, HF	A/R	SEE NOTE 4
3	CONNECTOR	SATA, 7P, FEMALE, STRAIGHT, AU 15u	2	SEE NOTE 4
2	CONNECTOR	SFF-8644, 36P, STRAIGHT, X4, MINISAS HD, SAS 4.0, PCIE GEN 4	2	SEE NOTE 4
1	CONNECTOR	SFF-8654, 74P, STRAIGHT, X8, SAS 4.0, PCIE GEN 4	1	SEE NOTE 4

APPROVALS		DATE
DRAWN BY	D. MONTGOMERY	23APR18
APPROVED BY	B. LIMA	20JUN18

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°

SCALE 1.500

**BROADCOM**

TITLE: CABLE, X8 SFF-8654 TO 2X SFF-8644 X4, SEP REFCLK, 1M

SIZE D DWG NO. 5067-8622 REV 001 SHEET 1 OF 2

CONNECTOR SIGNAL	CONNECTOR	PIN/PAD	CONNECTOR	PIN/PAD	CONNECTOR SIGNAL	WIRE/CABLE	NOTES	
GND	S0	A1	P0	D3	GND	ITEM 4		
Rx0+		A2		D4	Tx0+	ITEM 4		
Rx0-		A3		D5	Tx0-	ITEM 4		
GND		A4		D6	GND	ITEM 4	NOTE 2, NOTE 3	
GND		A4		C3	GND	ITEM 4	NOTE 2	
Rx1+		A5		C4	Tx1+	ITEM 4		
Rx1-		A6	C5	Tx1-	ITEM 4			
GND		A7	C6	GND	ITEM 4	NOTE 3		
SB7A		A8			NC	SHORT TO S0-B9		
SB4A		A9			NC			
SB3A		A10		P1	1	GND	ITEM 4	
SBA+		A11			2	SB+	ITEM 4	
SBA-		A12			3	SB-	ITEM 4	
GND		A13		4	GND	ITEM 4	NOTE 2	
GND		A13		P0	D6	GND	ITEM 4	NOTE 2, NOTE 3
Rx2+		A14			D7	Tx2+	ITEM 4	
Rx2-		A15			D8	Tx2-	ITEM 4	
GND		A16			D9	GND	ITEM 4	NOTE 2
GND		A16			C6	GND	ITEM 4	NOTE 2, NOTE 3
Rx3+	A17		C7		Tx3+	ITEM 4		
Rx3-	A18		C8		Tx3-	ITEM 4		
GND	A19		C9		GND	ITEM 4	NOTE 2	
GND	B1		B3		GND	ITEM 4	NOTE 3	
Tx0+	B2		B4		Rx0+	ITEM 4		
Tx0-	B3		B5		Rx0-	ITEM 4		
GND	B4		B6		GND	ITEM 4	NOTE 2, NOTE 3	
GND	B4		A3		GND	ITEM 4	NOTE 2	
Tx1+	B5		A4	Rx1+	ITEM 4			
Tx1-	B6		A5	Rx1-	ITEM 4			
GND	B7		A6	GND	ITEM 4	NOTE 3		
SB0A	B8		C1	SCLK	ITEM 5	NOTE 1		
SB1A	B9		C2	SDAT	ITEM 5	NOTE 1		
SB2A(GND)	B10		B3	GND	ITEM 5	NOTE 1, NOTE 3		
SB5A	B11		P1	5	PERST#	ITEM 5	NOTE 1	
SB6A	B12				NC	SHORT TO S0-B10		
GND	B13		P0	B6	GND	ITEM 4	NOTE 3	
Tx2+	B14			B7	RX2+	ITEM 4		
Tx2-	B15			B8	Rx2-	ITEM 4		
GND	B16			B9	GND	ITEM 4	NOTE 2	
GND	B16			A6	GND	ITEM 4	NOTE 2, NOTE 3	
Tx3+	B17			A7	Rx3+	ITEM 4		
Tx3-	B18			A8	Rx3-	ITEM 4		
GND	B19		A9	GND	ITEM 4	NOTE 2		
			P0	A1	NC			
				A2				
				B1				
				B2				
				D1				
			D2					
			P1	6	NC			
				7	GND	SHORT TO GND		

CONNECTOR SIGNAL	CONNECTOR	PIN/PAD	CONNECTOR	PIN/PAD	CONNECTOR SIGNAL	WIRE/CABLE	NOTES	
GND	S0	A19	P2	D3	GND	ITEM 4	NOTE 2	
Rx4+		A20		D4	Tx0+	ITEM 4		
Rx4-		A21		D5	Tx0-	ITEM 4		
GND		A22		D6	GND	ITEM 4	NOTE 2, NOTE 3	
GND		A22		C3	GND	ITEM 4	NOTE 2	
Rx5+		A23		C4	Tx1+	ITEM 4		
Rx5-		A24	C5	Tx1-	ITEM 4			
GND		A25	C6	GND	ITEM 4	NOTE 3		
SB7B		A26			NC	SHORT TO S0-B27		
SB4B		A27			NC			
SB3B		A28		P3	1	GND	ITEM 4	
SBB+		A29			2	SB+	ITEM 4	
SBB-		A30			3	SB-	ITEM 4	
GND		A31		4	GND	ITEM 4	NOTE 2	
GND		A31		P2	D6	GND	ITEM 4	NOTE 2, NOTE 3
Rx6+		A32			D7	Tx2+	ITEM 4	
Rx6-		A33			D8	Tx2-	ITEM 4	
GND		A34			D9	GND	ITEM 4	NOTE 2
GND		A34			C6	GND	ITEM 4	NOTE 2, NOTE 3
Rx7+	A35		C7		Tx3+	ITEM 4		
Rx7-	A36		C8		Tx3-	ITEM 4		
GND	A37		C9		GND	ITEM 4		
GND	B19		B3		GND	ITEM 4	NOTE 2, NOTE 3	
Tx4+	B20		B4		Rx0+	ITEM 4		
Tx4-	B21		B5		Rx0-	ITEM 4		
GND	B22		B6		GND	ITEM 4	NOTE 2, NOTE 3	
GND	B22		A3		GND	ITEM 4	NOTE 2	
Tx5+	B23		A4	Rx1+	ITEM 4			
Tx5-	B24		A5	Rx1-	ITEM 4			
GND	B25		A6	GND	ITEM 4	NOTE 3		
SB0B	B26		C1	SCLK	ITEM 5	NOTE 1		
SB1B	B27		C2	SDAT	ITEM 5	NOTE 1		
SB2B(GND)	B28		B3	GND	ITEM 5	NOTE 1, NOTE 3		
SB5B	B29		P3	5	PERST#	ITEM 5	NOTE 1	
SB6B	B30				NC	SHORT TO S0-B28		
GND	B31		P2	B6	GND	ITEM 4	NOTE 3	
Tx6+	B32			B7	RX2+	ITEM 4		
Tx6-	B33			B8	Rx2-	ITEM 4		
GND	B34			B9	GND	ITEM 4	NOTE 2	
GND	B34			A6	GND	ITEM 4	NOTE 2, NOTE 3	
Tx7+	B35			A7	Rx3+	ITEM 4		
Tx7-	B36			A8	Rx3-	ITEM 4		
GND	B37		A9	GND	ITEM 4			
			P2	A1	NC			
				A2				
				B1				
				B2				
				D1				
			D2					
			P3	6	NC			
				7	GND	SHORT TO GND		

**NOTES:**

1. END TO END RESISTANCE OF INDICATED CONNECTION SHALL BE 750 MILLIOHM MAX.
2. SHARED PIN/PAD ON CONNECTOR S0 END.
3. SHARED PIN/PAD ON CONNECTOR P0/P2 END.

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 document's revision is current. Moreover, the  
 possessor is responsible for removing obsolete  
 documents from their point of use.

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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°



TITLE  
 CABLE, X8 SFF-8654 TO 2X  
 SFF-8644 X4, SEP REFCLK, 1M

SCALE  
 1.500



SIZE  
 D

DWG NO.  
 5067-8622

REV  
 001

SHEET  
 2 OF 2