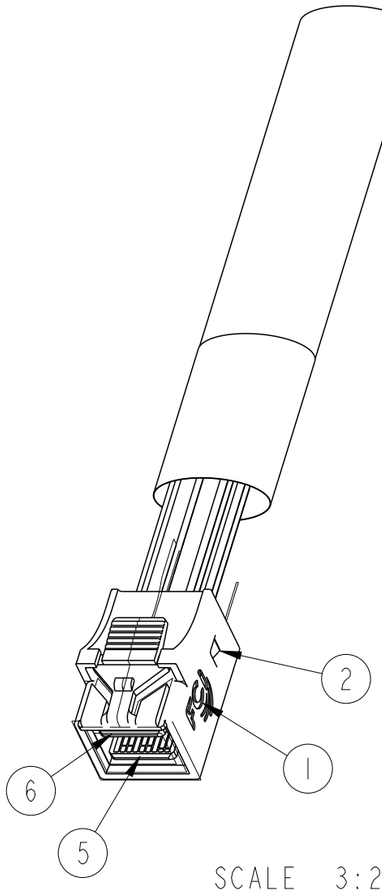

SCALE 3:2

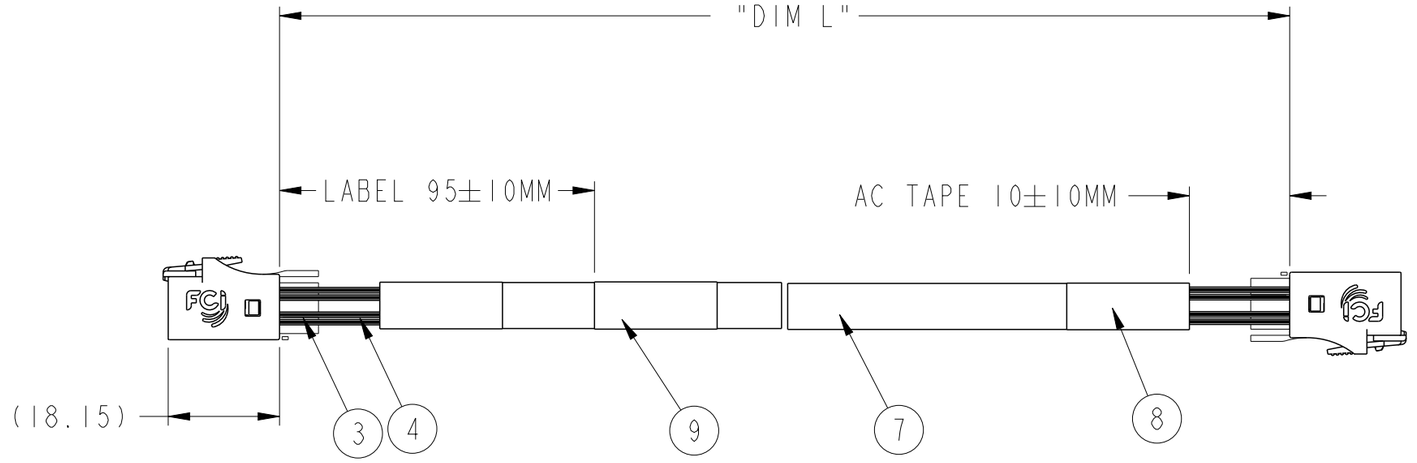

TABLE 1 - BILL OF MATERIALS

ITEM	DESCRIPTION	QTY	NOTES
1	mSAS HD INTERNAL HOUSING- SHORT	2	
2	mSAS HD INTERNAL PCB INSERT- SHORT	2	
3	FLAT RIBBON CABLE GPPG (30 AWG)	A/R	SEE TABLE 2
4	SIDE BAND FLAT RIBBON CABLE (30 AWG)	A/R	
5	mSAS HD INTERNAL LOWER (A-B) PCB	2	
6	mSAS HD INTERNAL UPPER (C-D) PCB	2	
7	PLASTIC BRAID	A/R	
8	ACETATE TAPE 20mm BLACK	A/R	
9	LABEL	1	SEE NOTE 5
10	3525 LOCTITE	A/R	NOT SHOWN

C

TABLE 2- CABLE PART NUMBER LIST

PART NUMBER	"DIM L" CABLE LENGTH (inch)	"DIM L" CABLE LENGTH (millimeters)	AWG	NOTES
10124920-2023LF	9"	228.6	30	CONTROLLER TO BACKPLANE WIRING CONFIGURATION (SHEET 2)
10124920-2027LF	10.5"	266.7	30	
10124920-2043LF	17"	431.8	30	
10124920-2053LF	21"	533.4	30	
10124920-2034LF	13.3"	338	30	
10124920-2021LF	8.11"	206	30	

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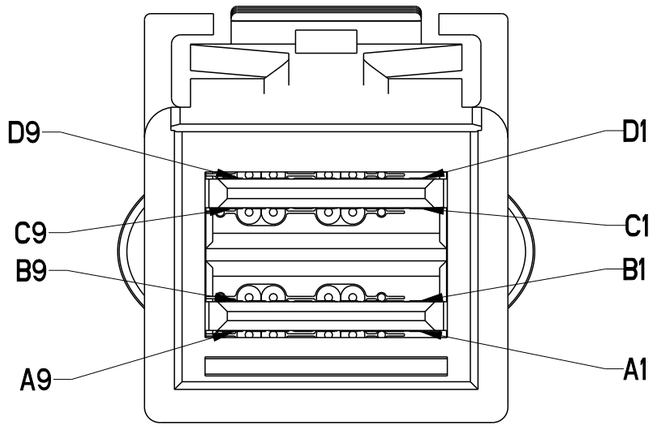
spec ref	-		dr	Andy Wu	2013/04/01	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Jason Gu	2013/07/22		
			chr	Kevin Bai	2013/07/22		
			appr	Roger Cheng	2013/07/24	product family	-
surface - ISO 1302	linear	0.X ±0.3					
		0.XX ±0.10					
		0.XXX ±0.005					
	angular	0° ±2°					

size A3	scale 1:1			
ecn no ELX-N-15319-1				
rel level Released				
www.fci.com	title: mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s, short type	dwg no 10124920	rev C	
cat. no. -	Product - Customer Drw	sheet 1 of 3		



SCALE 5:1

WIRING LIST (CONTROLLER TO BACKPLANE)				
END P1 (CONTROLLER)			END P2 (BACKPLANE)	
POSITION	SYMBOL		POSITION	SYMBOL
D9	GROUND	---------	B9	GROUND
D8	Tx2-		B8	Rx2-
D7	Tx2+		B7	Rx2+
D6	GROUND	---------	B6	GROUND
D5	Tx0-		B5	Rx0-
D4	Tx0+		B4	Rx0+
D3	GROUND	---------	B3	GROUND
D2	SIDEBAND 6		D1	SIDEBAND 6
D1	SIDEBAND 5		D2	SIDEBAND 5
C1	SIDEBAND 4		C2	SIDEBAND 4
C2	SIDEBAND 2		C1	SIDEBAND 2
C3	GROUND	---------	A3	GROUND
C4	Tx1+		A4	Rx1+
C5	Tx1-		A5	Rx1-
C6	GROUND	---------	A6	GROUND
C7	Tx3+		A7	Rx3+
C8	Tx3-		A8	Rx3-
C9	GROUND	---------	A9	GROUND
B9	GROUND	---------	D9	GROUND
B8	Rx2-		D8	Tx2-
B7	Rx2+		D7	Tx2+
B6	GROUND	---------	D6	GROUND
B5	Rx0-		D5	Tx0-
B4	Rx0+		D4	Tx0+
B3	GROUND	---------	D3	GROUND
B2	SIDEBAND 1		B1	SIDEBAND 1
B1	SIDEBAND 3		B2	SIDEBAND 3
A1	SIDEBAND 7		A2	SIDEBAND 7
A2	SIDEBAND 0		A1	SIDEBAND 0
A3	GROUND	---------	C3	GROUND
A4	Rx1+		C4	Tx1+
A5	Rx1-		C5	Tx1-
A6	GROUND	---------	C6	GROUND
A7	Rx3+		C7	Tx3+
A8	Rx3-		C8	Tx3-
A9	GROUND	---------	C9	GROUND

LEGEND

	HIGH-SPEED SERIAL DIFFERENTIAL PAIRS
- - - - - - - -	SIGNAL RETURN
	SIDEBAND SIGNAL

spec ref	-		dr	Andy Wu	2013/04/01	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Jason Gu	2013/07/22		
			chr	Kevin Bai	2013/07/22		
			appr	Roger Cheng	2013/07/24	product family	-
surface - ISO 1302	linear	0.X ±0.3	FCI www.fci.com	title	mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s, short type	dwg no	10124920
		0.XX ±0.10					rev C
		0.XXX ±0.005					
	angular	0° ±2°		cat. no.	-	Product - Customer Drw	sheet 2 of 3

size A3	scale 1:1	
ecn no	ELX-N-15319-1	
rel level	Released	

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Pro/E File - REV C - 2009-06-09

PDS: Rev :C STATUS:Released Printed: Jul 24, 2013

NOTES:

1. MATERIAL:
   HOUSINGS: MODIFIED POLYPHENYLENE ETHER
   PADDLE CARD: PRINTED CIRCUIT SUBSTRATE
   HEAT SHRINK TUBE: POLYOLEFIN
   EPOXY LOCTITE

2. THIS PRODUCT MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN
   ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2002/95/EC)

3. THIS DIMENSION IS A FINISHED PRODUCT LENGTH.

4. UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE IS TO BE:
   "DIM L" < 1 METER = ±15mm
   "DIM L" 1 METER TO 10 METERS = ± 2% OF "DIM L"

5. UNLESS OTHERWISE SPECIFIED LABEL POSITION IS TO BE 95mm FROM REAR OF P1 CONNECTOR.
   LABEL DETAILS:
   MANUFACTURER CODE OR NAME COUNTRY OF ORIGIN
   CUSTOMER P/N OR FCI P/N
   REVISION
   DATE CODE (YYYY/MM/DD FORMAT) - SERIAL NUMBER

   FONT SHALL BE CLEARLY VISIBLE AND BLACK IN COLOR.

6. ALL CABLE ASSEMBLIES SHALL BE 100% TESTED FOR CONTINUITY AS DEFINED IN WIRING LIST.

7. ALL CABLE ASSEMBLIES SHALL BE 100% HI-POT TESTED BH APPLYING 300V DC FOR A MINUMUM OF 10ms.

8. IMPEDANCE: 100Ω DIFFERENTIAL.

9. OTHER TESTING PERFORMED AS REQUIRED BY PRODUCT SPECIFICATION: GS-12-650.

10. PACKAGE AND LABEL CABLE ASSEMBLIES PER GS-14-1272.

11. A "△-" SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED
    WITH THE CURRENT DRAWING REVISION. THE CURRENT REVISION WILL BE SHOWN IN THE SYMBOL.

12. PART NUMBER/SUPPLIER SUBSTITUTION IS NOT ALLOWED.

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spec ref	-			dr	Andy Wu	2013/04/01	projection	mm	size A3 / scale 1:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Jason Gu	2013/07/22			
				chr	Kevin Bai	2013/07/22			ecn no ELX-N-15319-1
				appr	Roger Cheng	2013/07/24	product family -		rel level Released
surface - ISO 1302	linear	0.X	±0.3	FCI www.fci.com	title: mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s, short type		dwg no 10124920		rev C
		0.XX	±0.10						
		0.XXX	±0.005						
	angular	0°	±2°		cat. no. -		Product - Customer Drw		sheet 3 of 3

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

FCI / Amphenol:

10124920-2021LF 10124920-2023LF