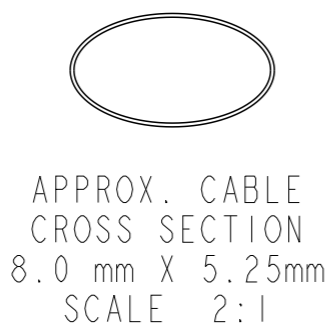
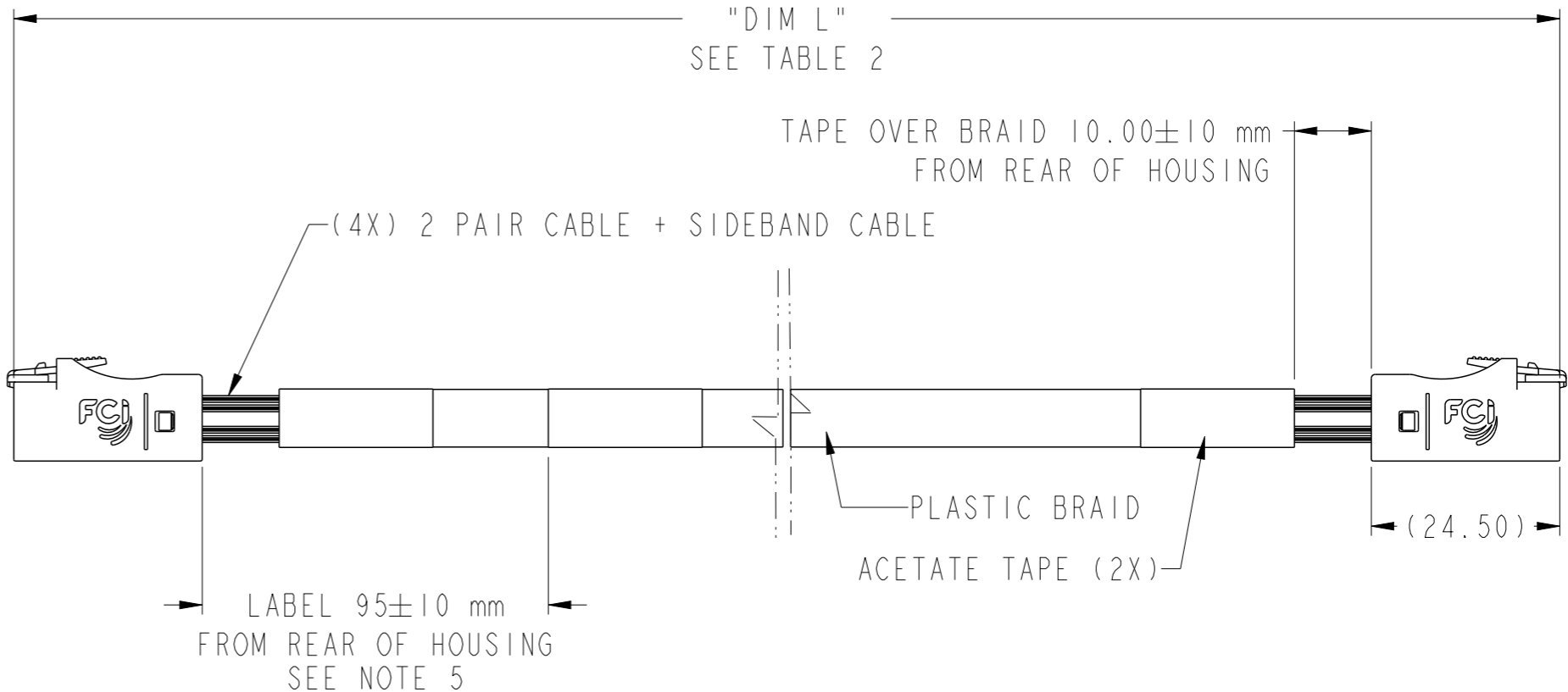
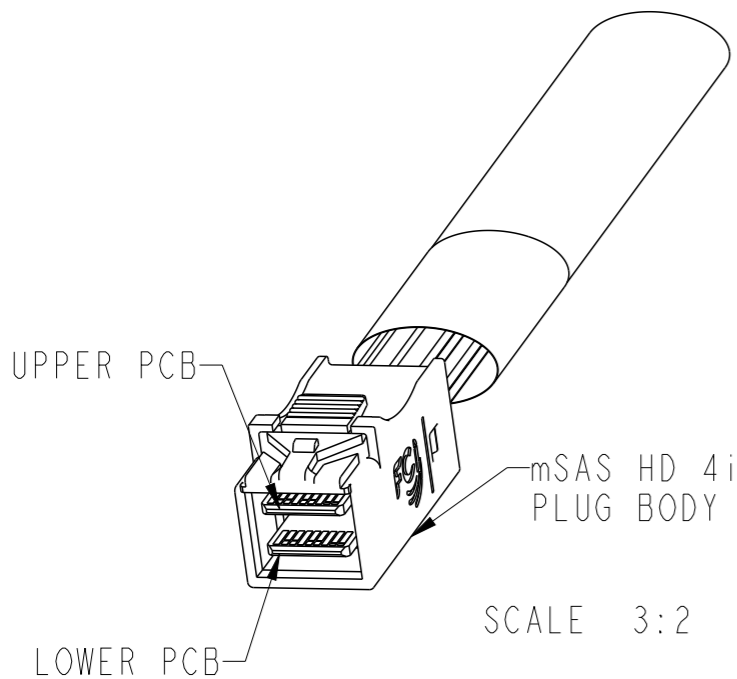






FCI PART NUMBER	DESCRIPTION	NOTES
10120086-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1

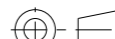
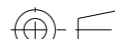





spec ref -		dr David Lord		2012/02/16		projection 	mm 	size A3	scale 1:1	
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng Andy Wu	2013/01/31				ecn no ELX-N-13965-1		
			chr -	-				rel level Released		
		appr Roger Cheng		2013/02/01		product family -				
surface  ISO 1302	linear	0.X	±0.3		title mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 6 Gb/s			dwg no 10120086	rev B	
		0.XX	±0.10							
		0.XXX	±0.005							
	angular	0°	±2°	www.fci.com	cat. no. -		Product - Customer Drw			sheet 1 of 4

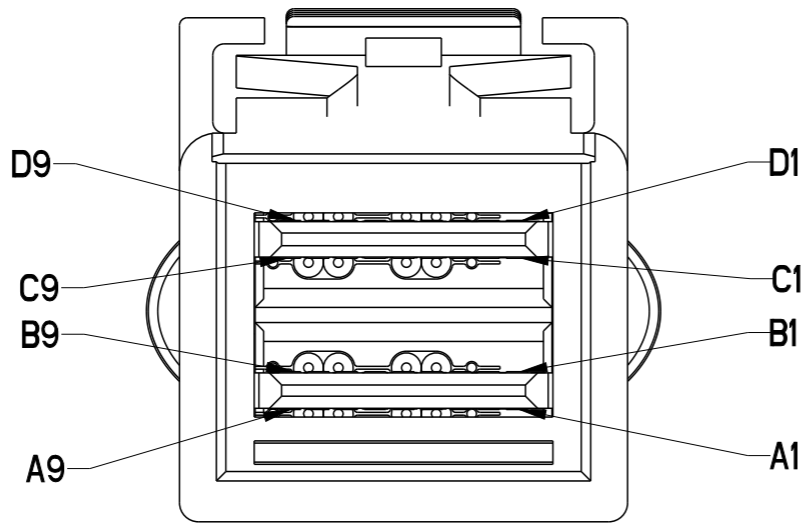
FCI PART NUMBER	DESCRIPTION	NOTES
10120086-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1

TABLE 1 - CABLE PART NUMBER LIST			
PART NUMBER	"DIM L" CABLE LENGTH (METERS)	AWG	NOTES
10120086-2030LF	0.3	30	CONTROLLER TO CONTROLLER WIRING CONFIGURATION (SHEET 2) ----- (SEE SHEET 3 FOR ALL NOTES)
10120086-2040LF	0.4	30	
10120086-2050LF	0.5	30	
10120086-2060LF	0.6	30	
10120086-2070LF	0.7	30	
10120086-2080LF	0.8	30	
10120086-2090LF	0.9	30	
10120086-2100LF	1.0	30	

NOTE:  
1. ALL CABLE PERFORMANCE COMPLIANCE SAS2.1  
2. CABLE MORE THAN 1.0 METER COULD NOT MEET SAS2.1 INSERTION LOSS -6dB MAX.

spec ref		-		dr		David Lord		2012/02/16		projection				mm		size		A3		scale		1:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Wu		2013/01/31						ecn no		ELX-N-13965-1							
ISO 406				chr		-		-															
ISO 1101				appr		Roger Cheng		2013/02/01								product family		-		rel level		Released	
surface 		linear		0.X		±0.3				title		mSAS HD INTERNAL (4i)		dwg no		10120086C		rev		B			
				0.XX		±0.10																	
				0.XXX		±0.005																	
ISO 1302		angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 2 of 4							




FCI PART NUMBER	DESCRIPTION	NOTES
10120086-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1



SCALE 5:1

LEGEND	
	HIGH-SPEED SERIAL DIFFERENTIAL PAIRS
	SIGNAL RETURN
	SIDEBAND SIGNAL





WIRING LIST (CONTROLLER TO CONTROLLER)				
END P1 (CONTROLLER)			END P2 (CONTROLLER)	
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		B2	SIDEBAND 1
D1	SIDEBAND 5		C2	SIDEBAND 2
C1	SIDEBAND 4		B1	SIDEBAND 3
C2	SIDEBAND 2		D1	SIDEBAND 5
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		D2	SIDEBAND 6
B1	SIDEBAND 3		C1	SIDEBAND 4
A1	SIDEBAND 7		A2	SIDEBAND 0
A2	SIDEBAND 0		A1	SIDEBAND 7
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

spec ref		-		dr		David Lord		2012/02/16		projection				mm		size		A3		scale		2:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Wu		2013/01/31				ecn no		ELX-N-13965-1									
ISO 406																							
ISO 1101																							
		chr		-		-				product family		-		rel level		Released							
surface		linear		appr		Roger Cheng		2013/02/01				title		mSAS HD INTERNAL (4i)		dwg no		10120086		rev		B	
ISO 1302																							
				0.X		±0.3																	
				0.XX		±0.10																	
				0.XXX		±0.005																	
		angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 3 of 4							

FCI PART NUMBER	DESCRIPTION	NOTES
10120086-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1

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 = ±25mm  
"DIM L" 1 METER TO 10 METERS = ± 2% OF "DIM L"
5. UNLESS OTHERWISE SPECIFIED LABEL POSITION IS TO BE 95mm FROM REAR OF PI 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. "HLF" PRODUCT NUMBERS DESIGNATE THE USE OF HALOGEN FREE RAW CABLE.
13. HALOGEN FREE RAW CABLE CAN BE USED AS A SUBSTITUTE ON NON-HF PRODUCT NUMBERS.
14. PART NUMBER/SUPPLIER SUBSTITUTION IS NOT ALLOWED.
15. THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING AND ELECTRICAL REQUIREMENTS OF THE SFF-8643 SPECIFICATION.
16. THIS PRODUCT CONFORMS TO THE SAS 2.1 SPECIFICATION.

spec ref -				dr David Lord		2012/02/16		<div>projection</div> <div></div>	<div>mm</div> <div></div>	size A3		scale 2:1	
tolerance std				eng Andy Wu		2013/01/31				ecn no ELX-N-13965-1			
ISO 406 ISO 1101				chr -		-				rel level Released			
				appr Roger Cheng		2013/02/01		product family -					
<div>surface -</div> <div></div> <div>ISO 1302</div>		linear	0.X	±0.3		title mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 6 Gb/s				dwg no 10120086		rev B	
			0.XX	±0.10									
			0.XXX	±0.005									
		angular	0°	±2°	www.fci.com		cat. no. -		Product - Customer Drw			sheet 4 of 4	