



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

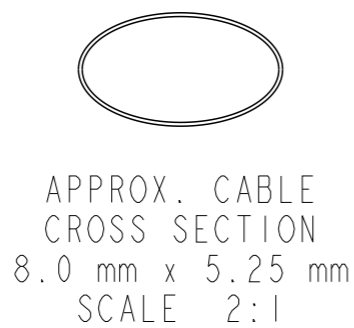
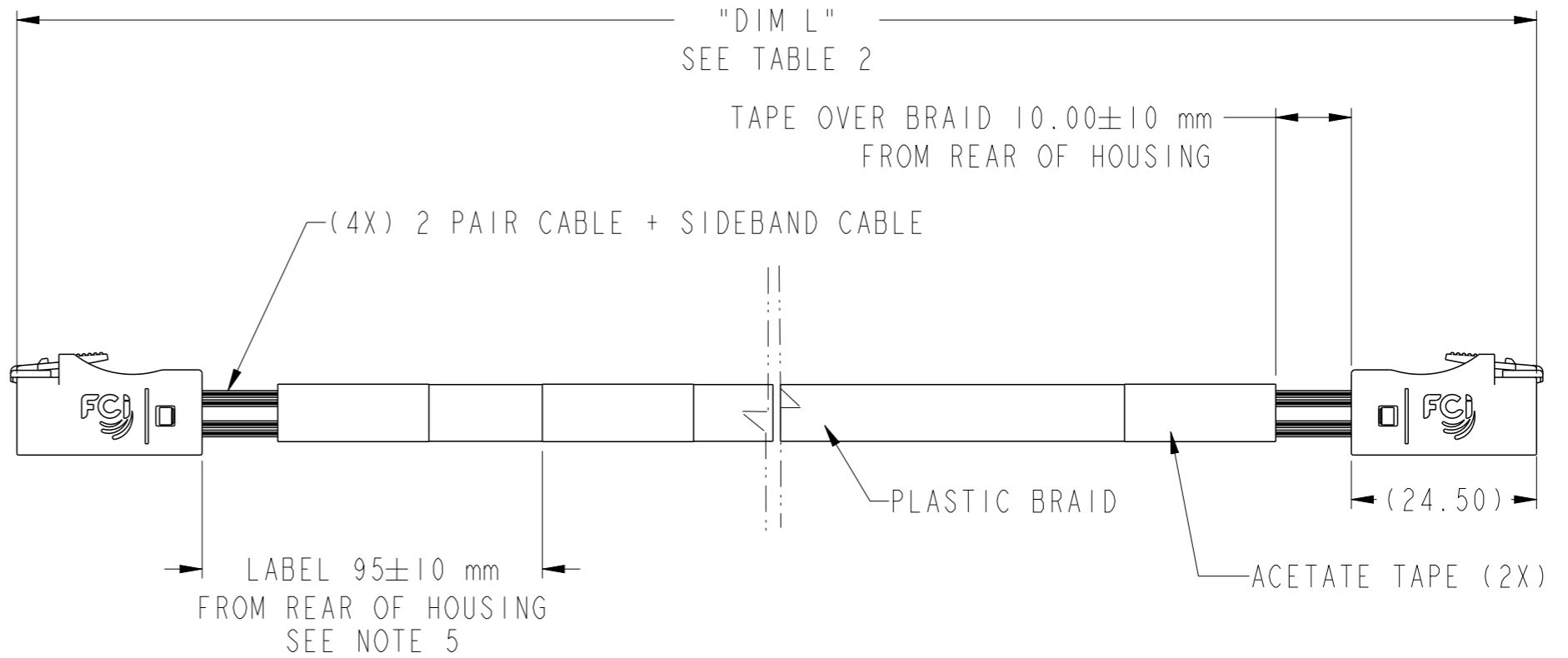
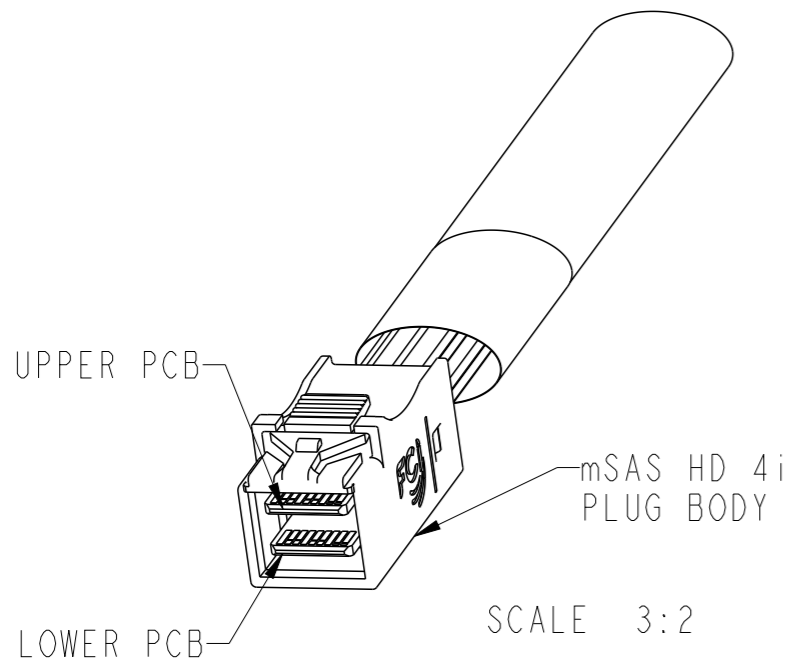
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FCI PART NUMBER	DESCRIPTION	NOTES
10120087-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1



spec ref	-	dr	David Lord	2012/02/16	projection	mm	size	A3	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Jason Gu	2013/05/16			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Kevin Bai	2013/05/16						
surface	ISO 1302	appr	Roger Cheng	2013/05/16			rel level	Released		rev
	linear	0.X	±0.3		title mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s		dwg no 10120087	Product - Customer Drw		sheet 1 of 4
		0.XX	±0.10		cat. no. -			rev C		
	angular	0°	±2°		www.fci.com					

FCI PART NUMBER	DESCRIPTION	NOTES
10120087-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1

**TABLE 2- CABLE PART NUMBER LIST**

PART NUMBER	"DIM L" CABLE LENGTH (METERS)	AWG	NOTES
10120087-2030LF	0.3	30	CONTROLLER TO CONTROLLER WIRING CONFIGURATION (SHEET 2) ----- (SEE SHEET 4 FOR ALL NOTES)
10120087-2040LF	0.4	30	
10120087-2050LF	0.5	30	
10120087-2060LF	0.6	30	
10120087-2070LF	0.7	30	
10120087-2080LF	0.8	30	
10120087-2090LF	0.9	30	
10120087-2100LF	1.0	30	

NOTE:

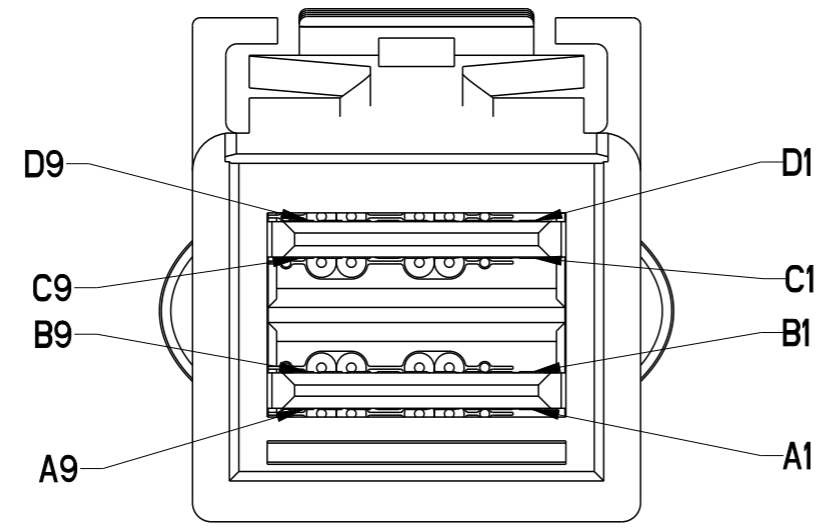
1. ALL CABLE PERFORMANCE COMPLIANCE SAS3.0  $\triangle C$
2. CABLE MORE THAN 1.0 METER COULD NOT MEET SAS3.0 INSERTION LOSS -11dB MAX.  $\triangle C$



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spec ref	-	dr	David Lord	2012/02/16	projection		size	A3	scale	1:1			
tolerance std	ISO 406 ISO 1101	eng	Jason Gu	2013/05/16		product family	ecn no	ELX-N-14781-1					
	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Kevin Bai	2013/05/16			rel level	Released					
surface		appr	Roger Cheng	2013/05/16		mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s	dwg no	10120087	rev	C			
	linear	0.X	$\pm 0.3$	cat. no.							-	Product - Customer Drw	sheet 2 of 4
	angular	0°	$\pm 2^\circ$										

FCI PART NUMBER	DESCRIPTION	NOTES
10120087-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	-
tolerance std	ISO 406 ISO 1101
surface	ISO 1302
linear	0.X ±0.3 0.XX ±0.10 0.XXX ±0.005
angular	0° ±2°

dr	David Lord	2012/02/16	projection	mm	size	A3	scale	2:1
eng	Jason Gu	2013/05/16		← →	ecn no	-	rel level	Released
chr	Kevin Bai	2013/05/16						
appr	Roger Cheng	2013/05/16	product family	-	rel level	-	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED			product family		-		Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED			mSAS HD INTERNAL (4i)		10120087		rev	
TOLERANCES UNLESS OTHERWISE SPECIFIED			CABLE ASSEMBLY- 12 Gb/s		10120087		C	
TOLERANCES UNLESS OTHERWISE SPECIFIED			www.fci.com		Product - Customer Drw		sheet 3 of 4	

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FCI PART NUMBER	DESCRIPTION	NOTES
10120087-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1

NOTES:

- MATERIAL:  
HOUSINGS: MODIFIED POLYPHENYLENE ETHER  
PADDLE CARD: PRINTED CIRCUIT SUBSTRATE  
HEAT SHRINK TUBE: POLYOLEFIN  
EPOXY LOCTITE
- THIS PRODUCT MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2002/95/EC)
- THIS DIMENSION IS A FINISHED PRODUCT LENGTH.
- 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"
- 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.
- ALL CABLE ASSEMBLIES SHALL BE 100% TESTED FOR CONTINUITY AS DEFINED IN WIRING LIST.
- ALL CABLE ASSEMBLIES SHALL BE 100% HI-POT TESTED BY APPLYING 300V DC FOR A MINIMUM OF 10ms.
- IMPEDANCE: 100Ω DIFFERENTIAL.
- OTHER TESTING PERFORMED AS REQUIRED BY PRODUCT SPECIFICATION: GS-12-650.
- PACKAGE AND LABEL CABLE ASSEMBLIES PER GS-14-1272.
- 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.
- "HLF" PRODUCT NUMBERS DESIGNATE THE USE OF HALOGEN FREE RAW CABLE.
- HALOGEN FREE RAW CABLE CAN BE USED AS A SUBSTITUTE ON NON-HF PRODUCT NUMBERS.
- PART NUMBER/SUPPLIER SUBSTITUTION IS NOT ALLOWED.
- THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING AND ELECTRICAL REQUIREMENTS OF THE SFF-8643 SPECIFICATION.



spec ref	-	dr	David Lord	2012/02/16	projection	mm	size	A3	scale	2:1	
tolerance std	ISO 406 ISO 1101	eng	Jason Gu	2013/05/16			ecn no	ELX-N-14781-1			
	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Kevin Bai	2013/05/16			rel level	Released			
surface	✓	appr	Roger Cheng	2013/05/16	product family	-	rel level	Released			
	linear	0.X	±0.3		mSAS HD INTERNAL (4i)	cat. no.	-	Product - Customer Drw	sheet 4 of 4	rev	C
		0.XX	±0.10							dwg no	10120087
	angular	0°	±2°							www.fci.com	



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