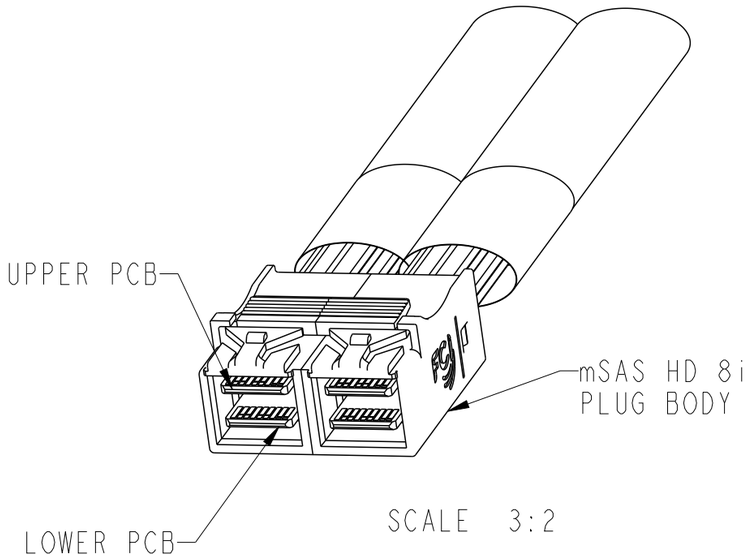
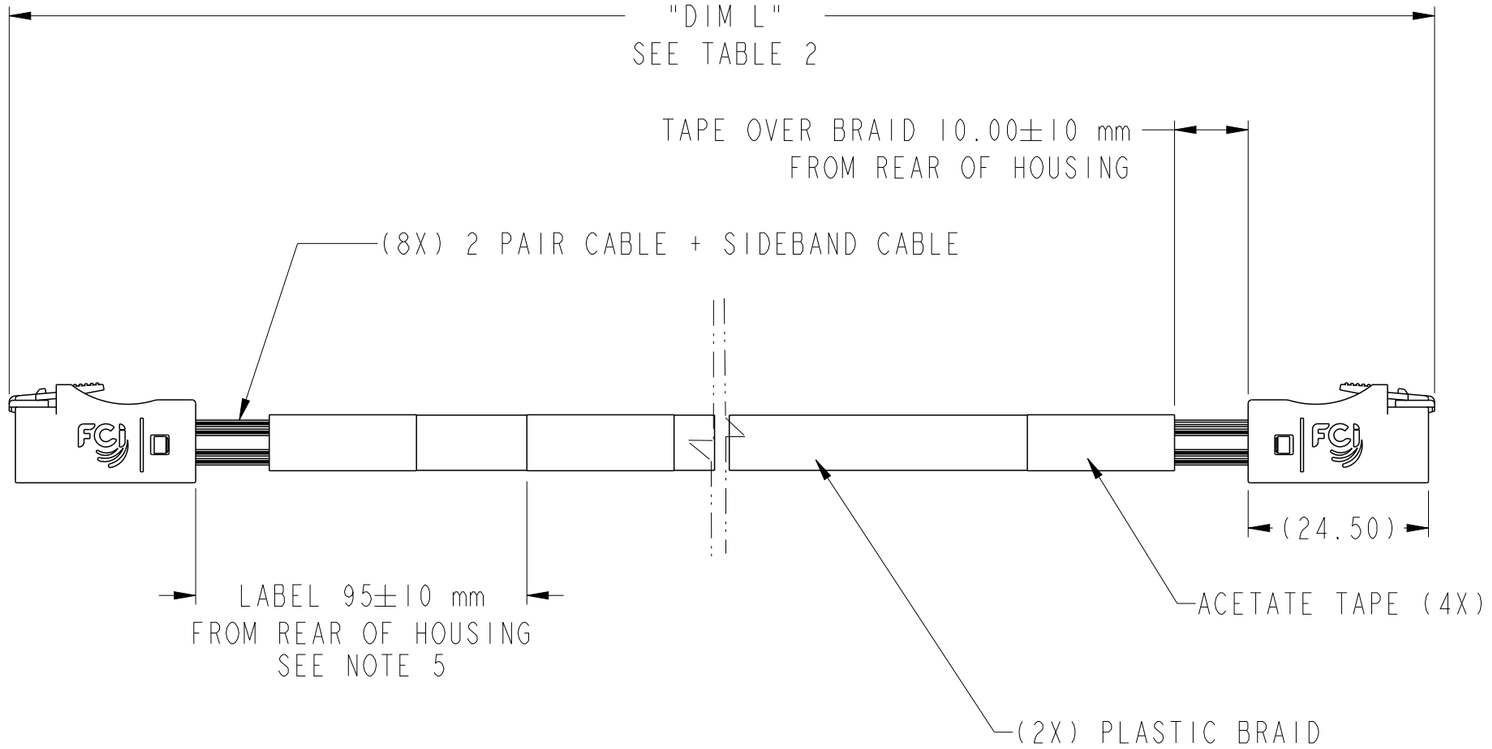
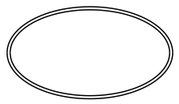
FCI PART NUMBER	DESCRIPTION	NOTES
10120089-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1



SCALE 3:2





APPROX. CABLE
CROSS SECTION
8.0 mm x 5.25mm
SCALE 2:1

Copyright FCI.

spec ref	-			dr	S Paulpandian	2012/08/03	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Jason Gu	2013/05/16		
				chr	Kevin Bai	2013/05/19		
				appr	Roger Cheng	2013/05/19	product family -	
surface - ISO 1302	linear	0.X	±0.3	FCI www.fci.com	title	mSAS HD INTERNAL (8i) CABLE ASSEMBLY- 12 Gb/s	dwg no 10120089	rev C
		0.XX	±0.10					
		0.XXX	±0.005					
	angular	0°	±2°		cat. no. -	Product - Customer Drw		sheet 1 of 4

size A3 | scale 1:1 | ecn no ELX-N-14782-1 | rel level **Released**

FCI PART NUMBER	DESCRIPTION	NOTES
10120089-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1

TABLE 1 - CABLE PART NUMBER LIST

PART NUMBER	"DIM L" CABLE LENGTH (METERS)	AWG	NOTES
10120089-2030LF	0.3	30	CONTROLLER TO CONTROLLER WIRING CONFIGURATION (SHEET 2) ---- (SEE SHEET 3 FOR ALL NOTES)
10120089-2040LF	0.4	30	
10120089-2050LF	0.5	30	
10120089-2060LF	0.6	30	
10120089-2070LF	0.7	30	
10120089-2080LF	0.8	30	
10120089-2090LF	0.9	30	
10120089-2100LF	1.0	30	

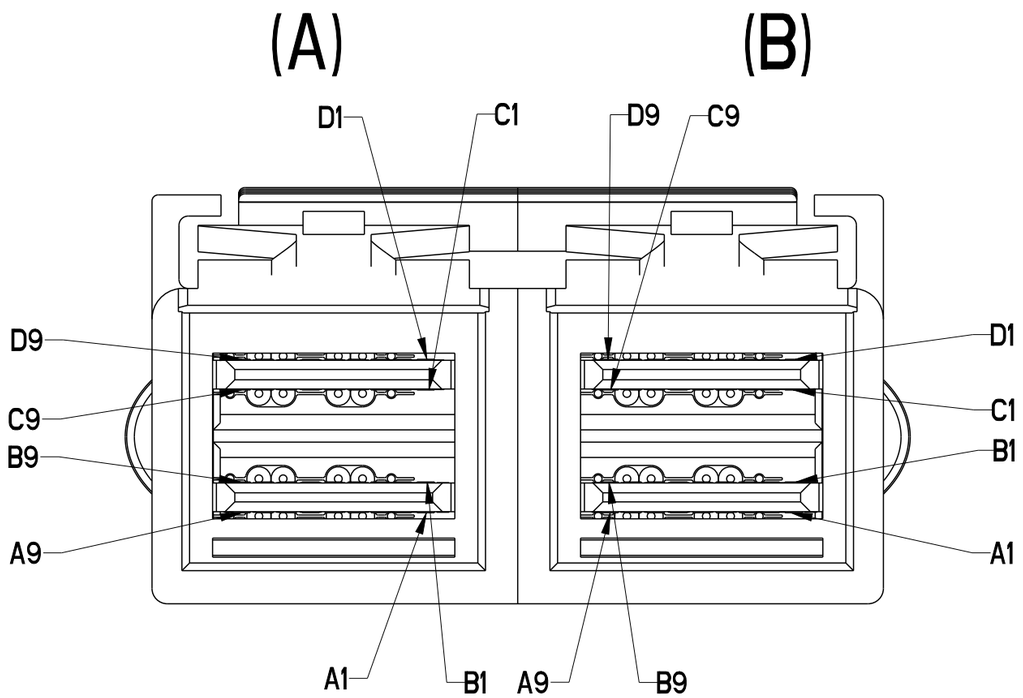
NOTE:
1. ALL CABLE PERFORMANCE COMPLIANT SAS3.0 C
2. CABLE MORE THAN 1M COULD NOT MEET SAS3.0 INSERTION LOSS -11dB MAX. C

Copyright FCI.

spec ref -			dr	S Paulpandian	2012/08/03	projection	mm	size A3 / scale 1:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Jason Gu	2013/05/16			
			chr	Kevin Bai	2013/05/19			ecn no ELX-N-14782-1
			appr	Roger Cheng	2013/05/19	product family -		rel level Released
surface - ISO 1302	linear	0.X ±0.3	FCI	title	mSAS HD INTERNAL (8i) CABLE ASSEMBLY- 12 Gb/s		dwg no 10120089	rev C
		0.XX ±0.10						
		0.XXX ±0.005						
	angular	0° ±2°	www.fci.com	cat. no. -		Product - Customer Drw		sheet 2 of 4

FCI PART NUMBER	DESCRIPTION	NOTES
10120089-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 1

P1-(A) TO P2-(A)
P1-(B) TO P2-(B)



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

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spec ref	-	dr	S Paulpandian	2012/08/03	projection	mm	size A3 / scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Jason Gu	2013/05/16			ecn no ELX-N-14782-1
surface - ISO 1302	linear 0.X ±0.3; 0.XX ±0.10; 0.XXX ±0.005	chr	Kevin Bai	2013/05/19			
	angular 0° ±2°	appr	Roger Cheng	2013/05/19	product family -		rel level Released

www.fci.com	title: mSAS HD INTERNAL (8i) CABLE ASSEMBLY- 12 Gb/s	dwg no 10120089	rev C
	cat. no. -	Product - Customer Drw	sheet 3 of 4

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. "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.

△C

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spec ref -				dr	S Paulpandian	2012/08/03	projection	mm	size A3 / scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Jason Gu	2013/05/16			
				chr	Kevin Bai	2013/05/19			ecn no ELX-N-14782-1
				appr	Roger Cheng	2013/05/19	product family -		rel level Released
surface - ISO 1302	linear	0.X	±0.3	FCI	title	mSAS HD INTERNAL (8i) CABLE ASSEMBLY- 12 Gb/s		dwg no 10120089	rev C
		0.XX	±0.10						
		0.XXX	±0.005						
	angular	0°	±2°	www.fci.com	cat. no. -		Product - Customer Drw		sheet 4 of 4