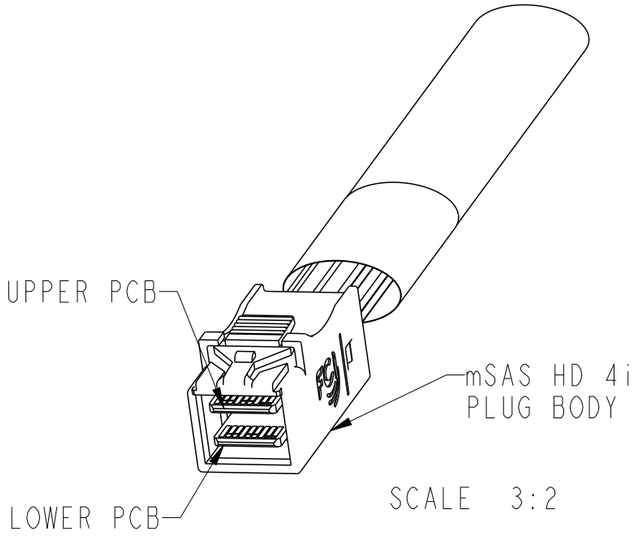
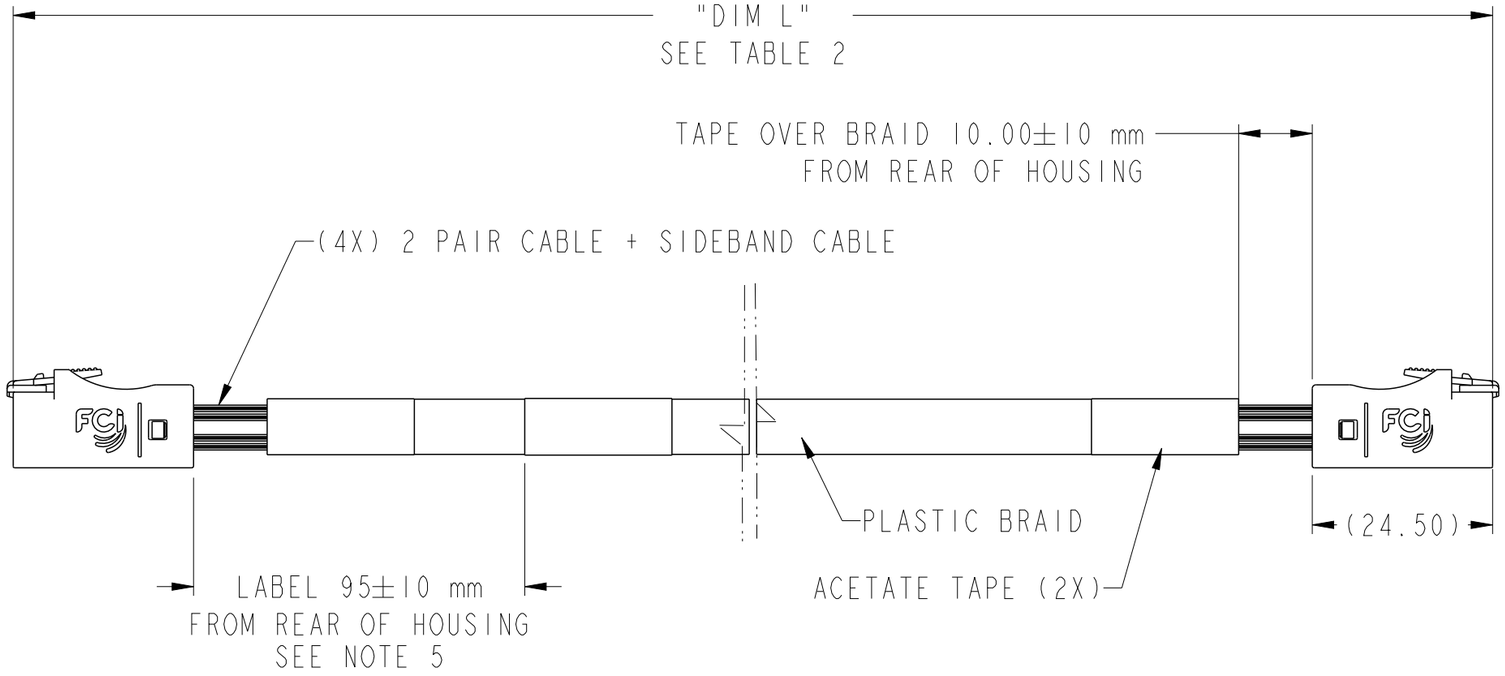
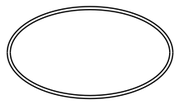
FCI PART NUMBER	DESCRIPTION	NOTES
10119217-XXXXLF	CONTROLLER TO BACKPLANE CONFIGURATION	SEE TABLE 1



SCALE 3:2





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

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spec ref	-			dr	David Lord	2011/12/15	projection
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Ya Li	2018/01/16	mm
				chr	-	-	
				appr	Caspar Lin	2018/01/24	product family -
surface - ISO 1302	linear	0.X	±0.3	Amphenol FCi	title	mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s	dwg no 10119217
		0.XX	±0.10				
		0.XXX	±0.005				
	angular	0°	±2°	www.fci.com	cat. no. -	Product - Customer Drw	sheet 1 of 4

size	scale	rev
A3	1:1	F

ecn no ELX-N-29059-1

rel level **Released**

Creo File - REV E - 2016-02-12

PDS: Rev :F STATUS:Released Printed: Jan 24, 2018

FCI PART NUMBER	DESCRIPTION	NOTES
10119217-XXXXLF	CONTROLLER TO BACKPLANE CONFIGURATION	SEE TABLE 1

TABLE 2- CABLE PART NUMBER LIST

PART NUMBER	"DIM L" CABLE LENGTH (METERS)	AWG	NOTES
10119217-2030LF	0.3	30	CONTROLLER TO BACKPLANE WIRING CONFIGURATION (SHEET 2) ---- (SEE SHEET 4 FOR ALL NOTES)
10119217-2040LF	0.4	30	
10119217-2050LF	0.5	30	
10119217-2060LF	0.6	30	
10119217-2070LF	0.7	30	
10119217-2080LF	0.8	30	
10119217-2090LF	0.9	30	
10119217-2100LF	1.0	30	
10119217-2125LF	1.25	30	
10119217-2200LF	2.0	30	
10119217-2095LF	0.95	30	
10119217-2025LF	0.25	30	

△F

NOTE:
1. ALL CABLE PERFORMANCE COMPLIANCE SAS3.0
2. CABLE MORE THAN 1.0 METER COULD NOT MEET SAS3.0 INSERTION LOSS -11dB MAX.

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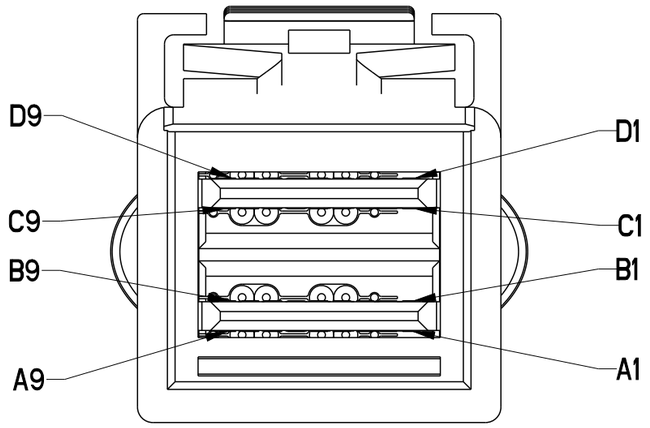
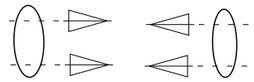
spec ref	-		dr	David Lord	2011/12/15	projection	mm	size A3 / scale 1:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Ya Li	2018/01/16			ecn no ELX-N-29059-1
			chr	-	-			
			appr	Caspar Lin	2018/01/24	product family -		rel level Released
surface - ISO 1302	linear	0.X ±0.3	Amphenol FCi	title	mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s		dwg no 10119217	rev F
		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
10119217-XXXXLF	CONTROLLER TO BACKPLANE CONFIGURATION	SEE TABLE 1



SCALE 5:1

LEGEND

	HIGH-SPEED SERIAL DIFFERENTIAL PAIRS
	SIGNAL RETURN
	SIDEBAND SIGNAL

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

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spec ref	-		dr	David Lord	2011/12/15	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Ya Li	2018/01/16		
			chr	-	-		
			appr	Caspar Lin	2018/01/24	product family	-
surface - ISO 1302	linear	0.X ±0.3					
		0.XX ±0.10					
		0.XXX ±0.005					
	angular	0° ±2°					

Amphenol FCI	title	mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s	dwg no 10119217 rev F
www.fci.com	cat. no. -	Product - Customer Drw	sheet 3 of 4

size A3	scale 2:1		
ecn no ELX-N-29059-1			
rel level Released			

Creo File - REV E - 2016-02-12

PDS: Rev :F STATUS:Released Printed: Jan 24, 2018

FCI PART NUMBER	DESCRIPTION	NOTES
10119217-XXXXLF	CONTROLLER TO BACKPLANE 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 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.

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spec ref	-			dr	David Lord	2011/12/15	projection	mm
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Ya Li	2018/01/16		
				chr	-	-		
				appr	Caspar Lin	2018/01/24	product family	-
surface - ISO 1302	linear	0.X	±0.3	Amphenol FCi	title	mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s	dwg no	10119217
		0.XX	±0.10					
		0.XXX	±0.005					
	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	

size	scale	rev
A3	2:1	F
ecn no	ELX-N-29059-1	
rel level	Released	
sheet 4 of 4		

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PDS: Rev :F STATUS:Released Printed: Jan 24, 2018