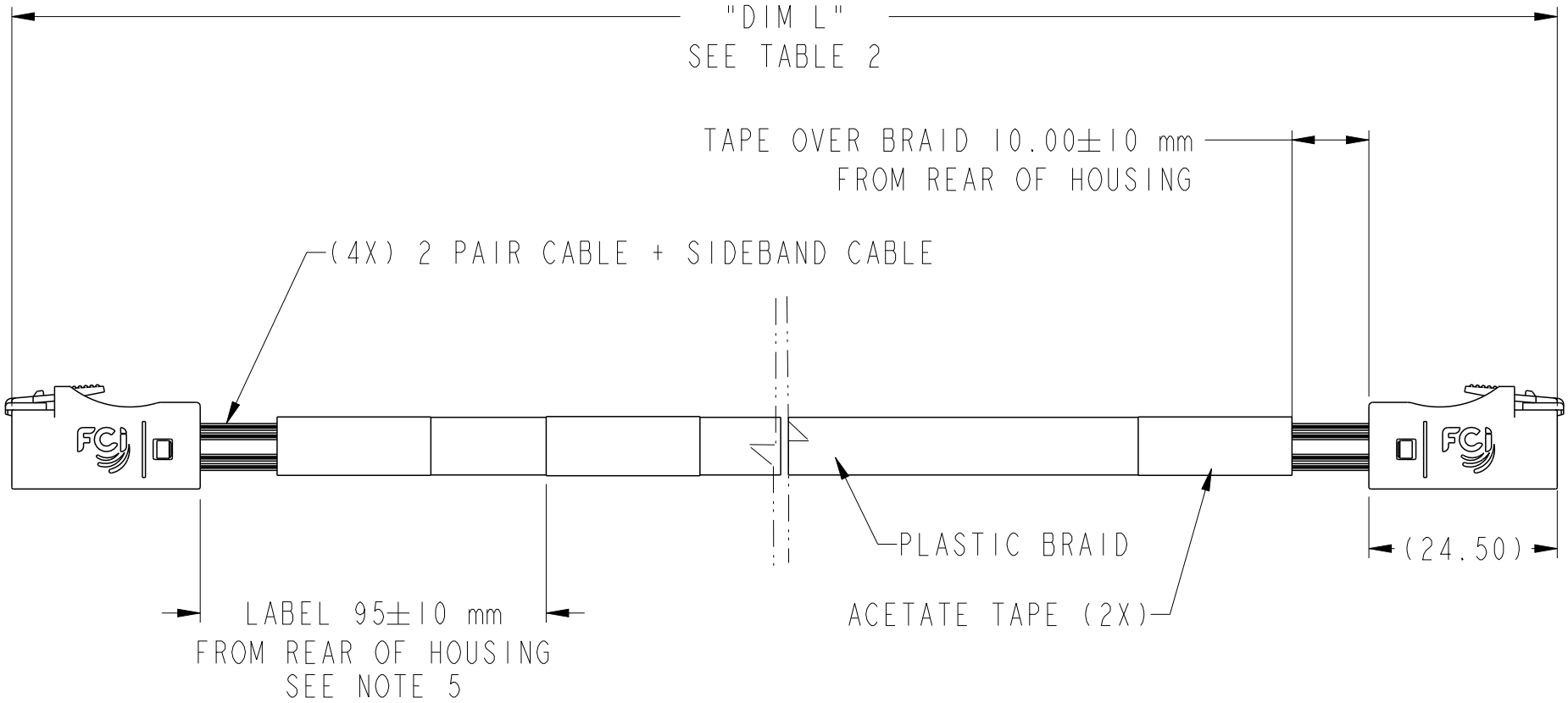
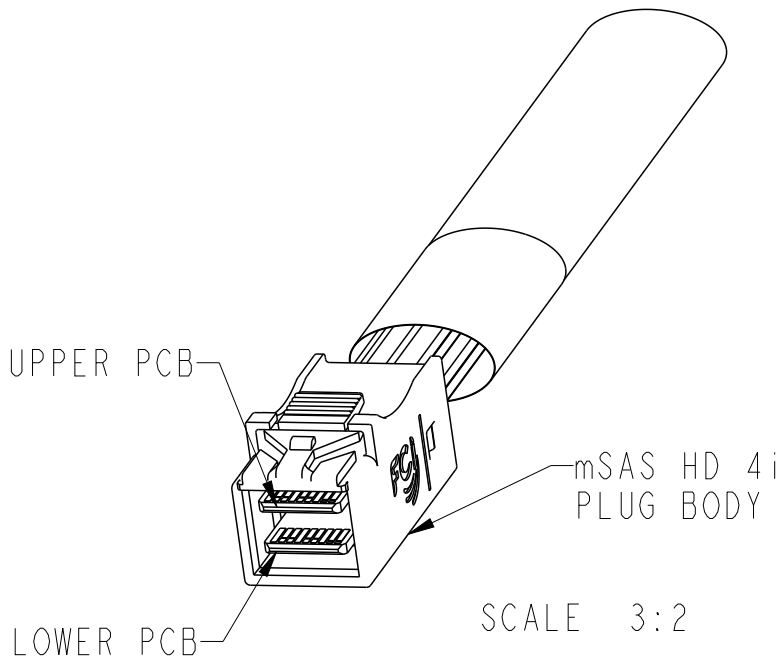


FCI PART NUMBER	DESCRIPTION	NOTES
10119217-XXXXLF	CONTROLLER TO BACKPLANE CONFIGURATION	SEE TABLE 1



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

spec ref -				dr David Lord		2011/12/15		projection		mm		size A3		scale 1:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED				eng Ya Li		2018/01/16									
ISO 406																	
ISO 1101																	
chr -		-		appr Caspar Lin		2018/01/24		product family -				ecn no ELX-N-29059-1		rel level Released			
surface		linear		0.X		±0.3		Amphenol FCI		title mSAS HD INTERNAL (4i)		dwg no 10119217		rev F			
				0.XX		±0.10											
				0.XXX		±0.005											
ISO 1302		angular		0°		±2°		www.fci.com		cat. no. -		Product - Customer Drw				sheet 1 of 4	

A

B

C

D

A

B

C

D

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	



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

spec ref		-		dr	David Lord	2011/12/15	projection 	mm 	size	A3	scale	1:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Ya Li	2018/01/16			ecn no	ELX-N-29059-1			
ISO 406 ISO 1101				chr	-	-			rel level	Released			
				appr	Caspar Lin		2018/01/24	product family		-			
surface 	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										
ISO 1302	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw				sheet 2 of 4		

FCI PART NUMBER

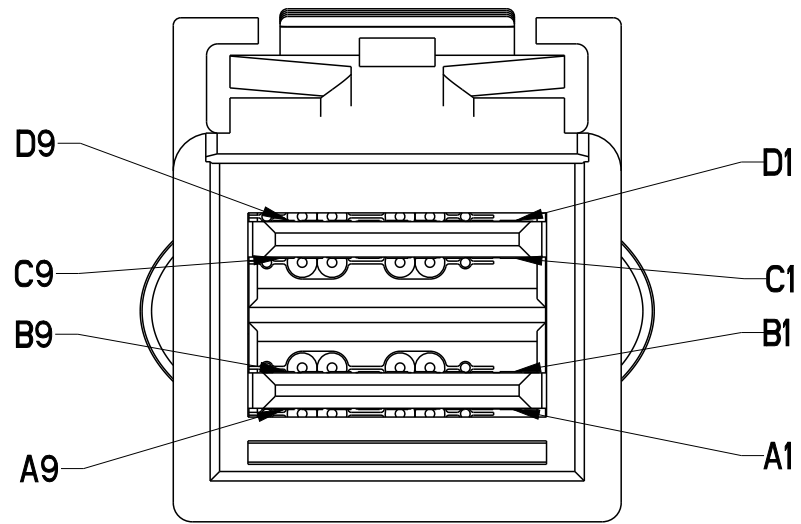
DESCRIPTION

NOTES

10119217-XXXXLF

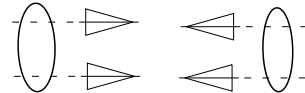
CONTROLLER TO BACKPLANE
CONFIGURATION

SEE TABLE 1



SCALE 5:1

LEGEND



HIGH-SPEED SERIAL
DIFFERENTIAL PAIRS



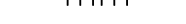
SIGNAL RETURN



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

spec ref -		dr David Lord		2011/12/15		projection 	mm 	size A3	scale 2:1
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	

Amphenol
FCi

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1

2

3

4

FCI PART NUMBER

DESCRIPTION

NOTES

10119217-XXXXLF

CONTROLLER TO BACKPLANE
CONFIGURATION

SEE TABLE I

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.

spec ref

-

tolerance std

ISO 406
ISO 1101

linear

0.X ±0.3
0.XX ±0.10
0.XXX ±0.005

angular

0° ±2°

dr

David Lord

2011/12/15

eng

Ya Li

2018/01/16

chr

-

-

appr

Caspar Lin

2018/01/24

projection

mm

size

A3

scale

2:1

ecn no

ELX-N-29059-1

product family

-

rel level

Released

surface

linear

0.X ±0.3
0.XX ±0.10
0.XXX ±0.005

angular

0° ±2°

Amphenol
FCi

www.fci.com

cat. no.

-

Product - Customer Drw

sheet 4 of 4

dr

David Lord

2011/12/15

eng

Ya Li

2018/01/16

chr

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appr

Caspar Lin

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rel level

Released

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0.X ±0.3
0.XX ±0.10
0.XXX ±0.005

angular

0° ±2°

Amphenol
FCi

www.fci.com

cat. no.

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Product - Customer Drw

sheet 4 of 4

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cat. no.

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Product - Customer Drw

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cat. no.

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www.fci.com

cat. no.

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Product - Customer Drw

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www.fci.com

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www.fci.com

cat. no.

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Product - Customer Drw

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Product - Customer Drw

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www.fci.com

cat. no.

-

Product - Customer Drw

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0.X ±0.3
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Amphenol
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www.fci.com

cat. no.

-

Product - Customer Drw

sheet 4 of 4

spec ref

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tolerance std

ISO 406
ISO 1101

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0.X ±0.3
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surface

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0.X ±0.3
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angular

0° ±2°

Amphenol
FCi

www.fci.com

cat. no.

-

Product - Customer Drw

sheet 4 of 4

spec ref

-

tolerance std

ISO 406
ISO 1101

linear

0.X ±0.3
0.XX ±0.10
0.XXX ±0.005

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dr

David Lord

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Amphenol
FCi

www.fci.com

cat. no.

-

Product - Customer Drw

sheet 4 of 4

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tolerance std

ISO 406
ISO 1101

linear

0.X ±0.3
0.XX ±0.10
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scale

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ELX-N-29059-1

product family

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rel level

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surface

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0.X ±0.3
0.XX ±0.10
0.XXX ±0.005

angular

0° ±2°

Amphenol
FCi

www.fci.com

cat. no.

-

Product - Customer Drw

sheet 4 of 4

spec ref

-

tolerance std

ISO 406
ISO 1101

linear

0.X ±0.3
0.XX ±0.10
0.XXX ±0.005

angular

0° ±2°

dr

David Lord

2011/12/15

eng

Ya Li

2018/01/16

chr

-

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appr

Caspar Lin

2018/01/24

projection

mm

size

A3

scale

2:1

ecn no

ELX-N-29059-1

product family

-

rel level

Released

surface

linear

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Amphenol
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cat. no.

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Product - Customer Drw

sheet 4 of 4

spec ref

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tolerance std

ISO 406
ISO 1101

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