FCI PART NUMBER	DESCRIPTION	NOTES
10119312-XXXXLF	CONTROLLER TO BACKPLANE CONFIGURATION	SEE TABLE 1

TABLE 1 - CABLE PART NUMBER LIST

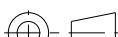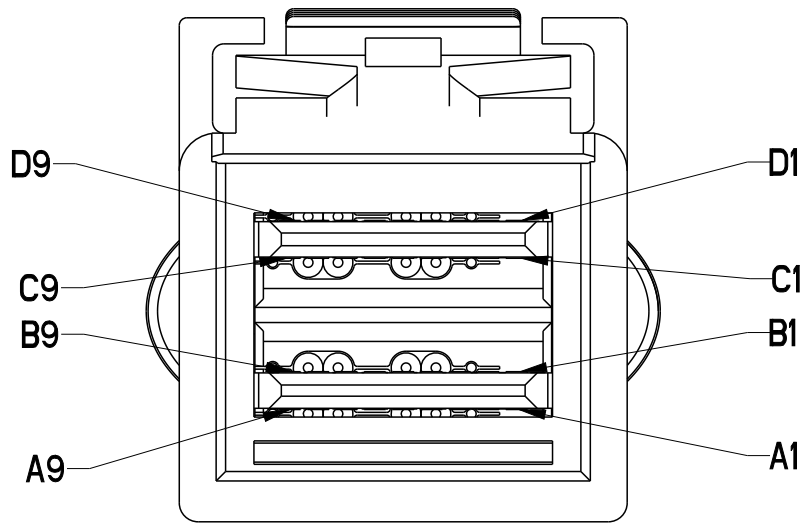| PART NUMBER	"DIM L" CABLE LENGTH (METERS)	AWG	NOTES
10119312-2030LF	0.3	30	CONTROLLER TO BACKPLANE WIRING CONFIGURATION (SHEET 2) ---- (SEE SHEET 3 FOR ALL NOTES)
10119312-2040LF	0.4	30	
10119312-2050LF	0.5	30	
10119312-2060LF	0.6	30	
10119312-2070LF	0.7	30	
10119312-2080LF	0.8	30	
10119312-2090LF	0.9	30	
10119312-2100LF	1.0	30	
10119312-2200LF	2.0	30	

C

*NOTE:
1. ALL CABLE 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	Ya Li	2015/04/28							
ISO 406		chr	-	-				ecn no	ELX-N-20750-1		
ISO 1101		appr	Delhly Liu	2015/04/28	product family	-		rel level	Released		

surface	-	linear	0.X	±0.3	title	mSAS HD INTERNAL (4i)	dwg no	10119312	rev
			0.XX	±0.10		CABLE ASSEMBLY- 6 Gb/s			C
			0.XXX	±0.005					
ISO 1302		angular	0°	±2°	cat. no.	-	Product - Customer Drw	sheet 2 of 4	

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Pro/E File - REV C - 2009-06-09

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FCI PART NUMBER	DESCRIPTION	NOTES
10119312-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	2012/02/16
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Ya Li	2015/04/28
ISO 406 ISO 1101			chr	-	-
			appr	Delhly Liu	2015/04/28

projection: mm

size A3   scale 2:1

ecn no: ELX-N-20750-1

rel level: **Released**

surface	linear	0.X	±0.3
-		0.XX	±0.10
		0.XXX	±0.005
ISO 1302	angular	0°	±2°

title: mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 6 Gb/s

www.fci.com   cat. no.   -

dwg no: 10119312

product family   -

Product - Customer Drw   sheet 3 of 4

rev C

Pro/E File - REV C - 2009-06-09

FCI PART NUMBER	DESCRIPTION	NOTES
10119312-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.

16. THIS PRODUCT COMFORMS TO THE SAS 2.1 SPECIFICATION.

spec ref	-		dr	David Lord	2012/02/16	projection		mm	size A3	scale 2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Ya Li	2015/04/28					
ISO 406 ISO 1101			chr	-	-				ecn no	ELX-N-20750-1
			appr	Delhly Liu	2015/04/28	product family	-		rel level	Released
surface -	linear	0.X	±0.3			title	mSAS HD INTERNAL (4i)	dwg no 10119312	rev C
		0.XX	±0.10				CABLE ASSEMBLY- 6 Gb/s		
		0.XXX	±0.005						
ISO 1302	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 4 of 4	

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