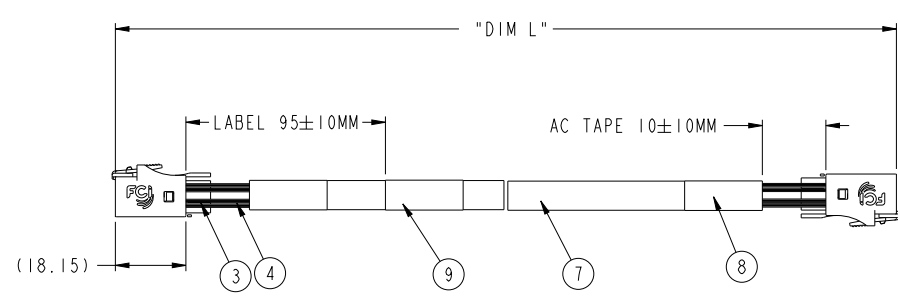
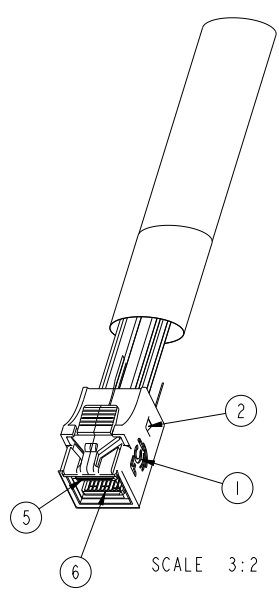


FCI PART NUMBER	DESCRIPTION	NOTES
10122671-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 2



ITEM	DESCRIPTION	QTY	NOTES
1	mSAS HD INTERNAL HOUSING- SHORT	2	
2	mSAS HD INTERNAL PCB INSERT- SHORT	2	
3	FLAT RIBBON CABLE GPPG (30 AWG)	A/R	SEE TABLE 2
4	SIDE BAND FLAT RIBBON CABLE (30 AWG)	A/R	
5	mSAS HD INTERNAL LOWER (A-B) PCB	2	
6	mSAS HD INTERNAL UPPER (C-D) PCB	2	
7	PLASTIC BRAID	A/R	
8	ACETATE TAPE 20mm BLACK	A/R	
9	LABEL	1	SEE NOTE 5
10	3525 LOCTITE	A/R	NOT SHOWN

spec ref	-	dr	Andy Wu	20130103	projection	mm	size	A3	scale	1:1	
tolerance std	ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Jason Gu	20130516		ecn no	ELKIN-14703-1	rel level	Released	
surface	ISO 1302	linear	0.x	±0.3	0.xx		±0.10	0.xxx	±0.005	angular	0°
www.fci.com		title	mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 12 Gb/s, short type			dwg no	10122671		rev	C	
cat. no.		Product - Customer Drw			sheet 1 of 4						

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FCI PART NUMBER	DESCRIPTION	NOTES
10122671-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 2

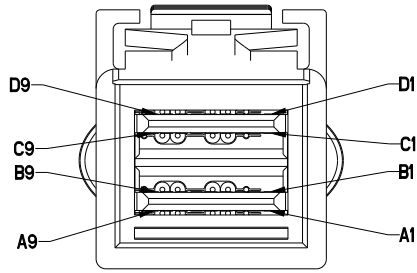
TABLE 2- CABLE PART NUMBER LIST			
PART NUMBER	"DIM L" CABLE LENGTH (METERS)	AWG	NOTES
10122671-2030LF	0.3	30	CONTROLLER TO CONTROLLER WIRING CONFIGURATION (SHEET 2) --- (SEE SHEET 4 FOR ALL NOTES)
10122671-2040LF	0.4	30	
10122671-2050LF	0.5	30	
10122671-2060LF	0.6	30	
10122671-2070LF	0.7	30	
10122671-2080LF	0.8	30	
10122671-2090LF	0.9	30	
10122671-2100LF	1.0	30	

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

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spec ref	-	dr	Andy Wu	20130103	projection	mm	size	A3	scale	1:2
tolerance std	ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Jason Gu	20130516		ecn no	ELN-14703-1		
surface	ISO 1302	linear	chr	Kevin Bai	20130519			product family	-	rel level
		angular	appr	Roger Cheng	20130519	mSAS HD INTERNAL (4i)		10122671	rev	C
		0.X ±0.3 0.XX ±0.10 0.XXX ±0.005	www.fci.com		CABLE ASSEMBLY- 12 Gb/s, short type		Product - Customer Drw sheet 2 of 4			

FCI PART NUMBER	DESCRIPTION	NOTES
10122671-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 2



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
TOLERANCES UNLESS OTHERWISE SPECIFIED	
surface	linear
	0.X ±0.3
	0.XX ±0.10
	0.XXX ±0.005
	angular 0° ±2°

dr	Andy Wu	20130103	projection	mm	size	A3	scale	1:1
eng	Jason Gu	20130516		mm	ecn no	ELK/4-14703-1	rel level	Released
chr	Kevin Bai	20130519						
appr	Roger Cheng	20130519	product family	-	rel level	Released		
www.fci.com		title	mSAS HD INTERNAL (4i)		dwg no	10122671		rev
		CABLE ASSEMBLY- 12 Gb/s, short type						C
		Product - Customer Drw						sheet 3 of 4

Prod File - Rev C - 2009-01-09

PDS: Rev :C

STATUS:Released

Printed: May 20, 2013

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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 =  $\pm 25\text{mm}$   
"DIM L" 1 METER TO 10 METERS =  $\pm 2\%$  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 MINIMUM 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	-	dr	Andy Wu	20130103	projection	mm	size	A3	scale	1:1
tolerance std	ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Jason Gu	20130516			ecn no	ELN-14703-1	
surface	ISO 1302	linear	chr	Kevin Bai	20130519				product family	-
		0.X	±0.3	appr	Roger Cheng	20130519	drawing no		10122671	rev
		0.XX	±0.10	www.fci.com		title		mSAS HD INTERNAL (4i)		C
		0.XXX	±0.005	cat. no.		CABLE ASSEMBLY- 12 Gb/s, short type		Product - Customer Drw		sheet 4 of 4
		angular	0° ±2°	PDS: Rev :C		STATUS:Released		Printed: May 20, 2013		