



FCI PART NUMBER	DESCRIPTION	NOTES
10123416-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 2

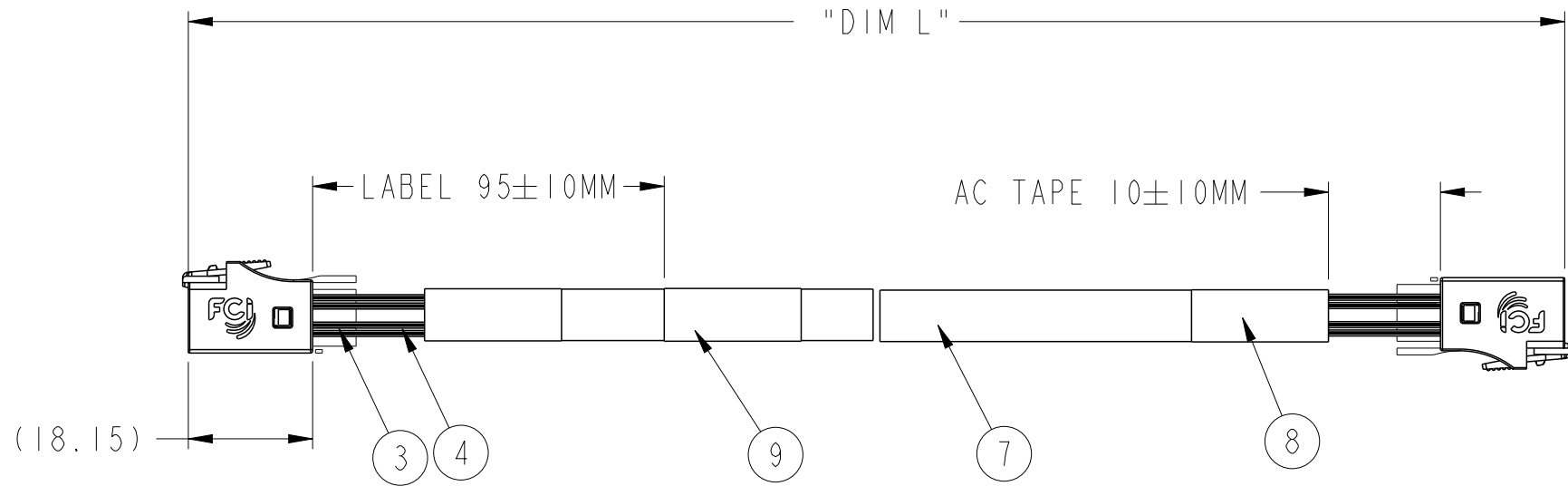
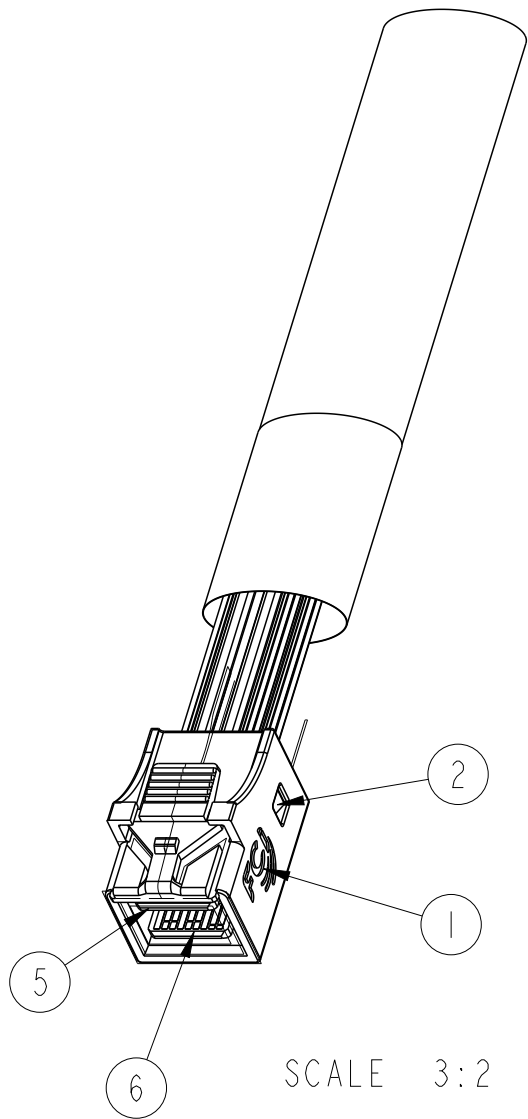


TABLE 1 - BILL OF MATERIALS

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	2013/01/03	projection	mm	size	A3	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Andy Wu	2013/01/17			ecn no	ELX-N-13885-1		
	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-			rel level	Released		
surface	ISO 1302	appr	Roger Cheng	2013/01/20	product family	-				
linear	0.X ±0.3 0.XX ±0.10 0.XXX ±0.005	FCI	mSAS HD INTERNAL (4i)	dwg no	10123416	rev	B			
angular	0° ±2°	www.fci.com	CABLE ASSEMBLY- 6 Gb/s, short type	cat. no.	-	Product - Customer Drw	sheet 1 of 4			

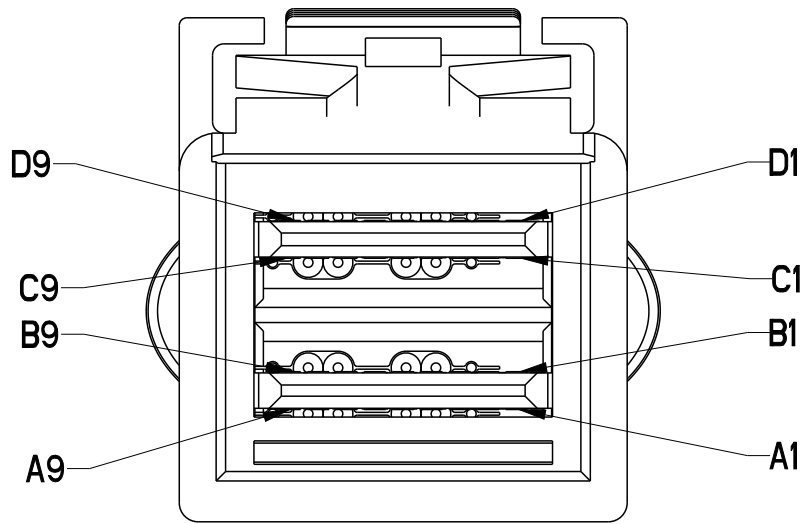
FCI PART NUMBER	DESCRIPTION	NOTES
10123416-XXXXLF	CONTROLLER TO CONTROLLER CONFIGURATION	SEE TABLE 2

TABLE 2- CABLE PART NUMBER LIST			
PART NUMBER	"DIM L" CABLE LENGTH (METERS)	AWG	NOTES
10123416-2030LF	0.3	30	CONTROLLER TO CONTROLLER WIRING CONFIGURATION (SHEET 2) ----- (SEE SHEET 4 FOR ALL NOTES)
10123416-2040LF	0.4	30	
10123416-2050LF	0.5	30	
10123416-2060LF	0.6	30	
10123416-2070LF	0.7	30	
10123416-2080LF	0.8	30	
10123416-2090LF	0.9	30	
10123416-2100LF	1.0	30	

NOTE:
1. ALL CABLE PERFORMANCE COMPLIANCE SAS2.1
2. CABLE MORE THAN 1.0 METER COULD NOT MEET SAS2.1 INSERTION LOSS -6dB MAX.

spec ref -				dr Andy Wu		2013/01/03		projection	mm	size A3		scale 1:2					
tolerance std				eng Andy Wu		2013/01/17				ecn no ELX-N-13885-1							
ISO 406 ISO 1101				chr -		-				rel level Released							
				appr Roger Cheng		2013/01/20		product family -									
surface ISO 1302				linear		0.X		±0.3		www.fci.com		title mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 6 Gb/s, short type		dwg no 10123416		rev B	
						0.XX		±0.10									
						0.XXX		±0.005									
				angular		0°		±2°		cat. no. -		Product - Customer Drw				sheet 2 of 4	

FCI PART NUMBER	DESCRIPTION	NOTES
10123416-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		-		dr		Andy Wu		2013/01/03		projection		mm		size		A3		scale		1:1					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Wu		2013/01/17						ecn no		ELX-N-13885-1									
ISO 406				chr		-		-																	
ISO 1101				appr		Roger Cheng		2013/01/20						product family		-		rel level		Released					
surface		linear		0.X		±0.3				title		mSAS HD INTERNAL (4i)		dwg no		10123416		rev		B					
																						0.XX		±0.10	
																						0.XXX		±0.005	
ISO 1302		angular		0°		±2°		www.fci.com		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 = $\pm 15\text{mm}$
"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 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.

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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Andy Wu	2013/01/17					ecn no		ELX-N-13885-1										
chr				-		-																		
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surface 		linear		0.X		±0.3				title		mSAS HD INTERNAL (4i)		dwg no		10123416		rev		B				
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																					0.XXX		±0.005	
ISO 1302		angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 4 of 4								