

FCI PART NUMBER	DESCRIPTION	NOTES
10122527-XXXXLF	CONTROLLER TO BACKPLANE CONFIGURATION	SEE TABLE 2

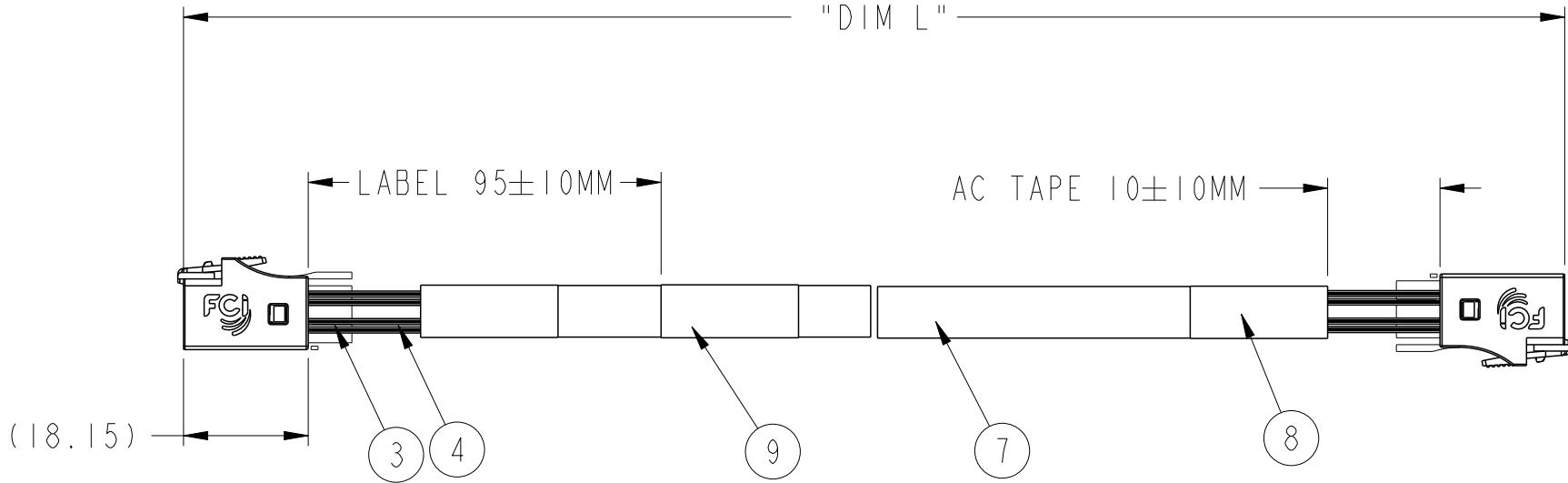
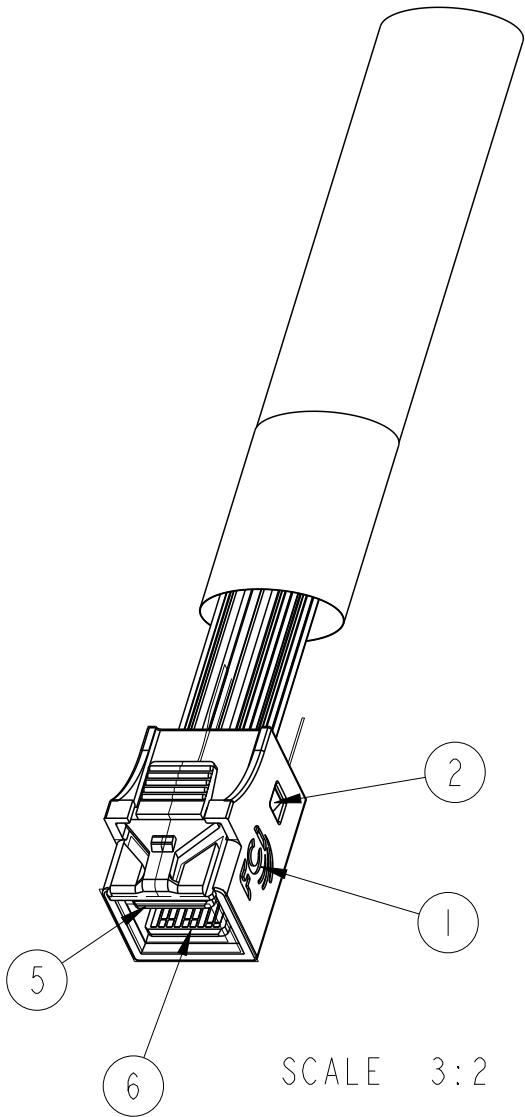
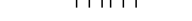


TABLE 1 - BILL OF MATERIALS

ITEM	DESCRIPTION	QTY	NOTES
1	mSAS HD INTERNAL HOUSING- SHORT	2	
2	mSAS HD INTERNAL PCB INSERT- SHORT	2	
3	3M FLAT RIBBON CABLE (30 AWG)	A/R	
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		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Ya Li		2015/04/28						ecn no		ELX-N-20750-1					
chr				-		-															
appr				Delhy Liu		2015/04/28		product family								-		rel level		Released	
surface  ISO 1302		linear		0.X		±0.3				title		mSAS HD INTERNAL (4i)		dwg no		10122527		rev		J	
				0.XX		±0.10															
				0.XXX		±0.005															
angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 1 of 4							

FCI PART NUMBER	DESCRIPTION	NOTES
10122527-XXXXLF	CONTROLLER TO BACKPLANE CONFIGURATION	SEE TABLE 2

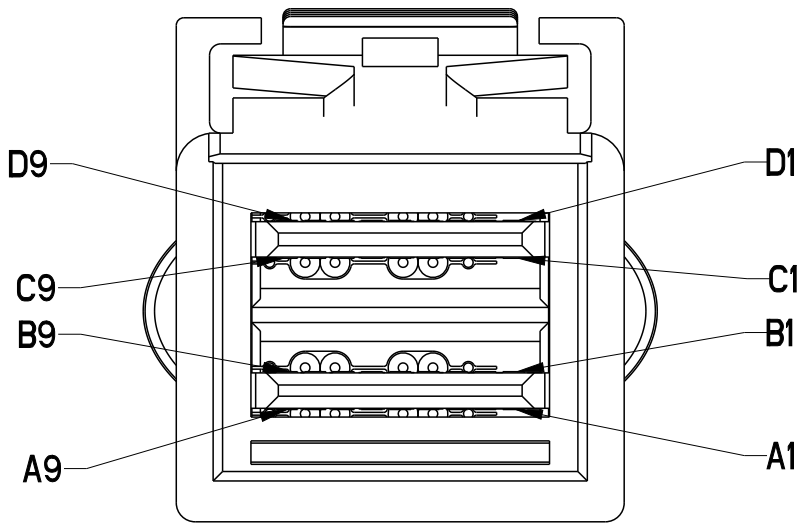
TABLE 2- CABLE PART NUMBER LIST			
PART NUMBER	"DIM L" CABLE LENGTH (METERS)	AWG	NOTES
10122527-2030LF	0.3	30	CONTROLLER TO BACKPLANE WIRING CONFIGURATION (SHEET 2) ----- (SEE SHEET 4 FOR ALL NOTES)
10122527-2040LF	0.4	30	
10122527-2050LF	0.5	30	
10122527-2060LF	0.6	30	
10122527-2070LF	0.7	30	
10122527-2075LF	0.75	30	
10122527-2080LF	0.8	30	
10122527-2090LF	0.9	30	
10122527-2100LF	1.0	30	
10122527-2035LF	0.35	30	
10122527-2043LF	0.436	30	
10122527-2095LF	0.95	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		Andy Wu		2013/01/03		projection		mm		size		A3		scale		1:2																			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Ya Li		2015/04/28						ecn no		ELX-N-20750-1																							
ISO 406				chr		-		-						rel level						Released																			
ISO 1101				appr		Delhy Liu		2015/04/28						product family		-																							
surface				linear		0.X		±0.3				title		mSAS HD INTERNAL (4i)		dwg no		10122527		rev		J																	
ISO 1302																								angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 2 of 4	

FCI PART NUMBER	DESCRIPTION	NOTES
10122527-XXXXLF	CONTROLLER TO BACKPLANE CONFIGURATION	SEE TABLE 2



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		Andy Wu		2013/01/03		projection		mm		size		A3		scale		1:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Ya Li		2015/04/28						ecn no		ELX-N-20750-1					
chr				-		-															
appr				Delhly Liu		2015/04/28		product family								-		rel level		Released	
surface		linear		0.X		±0.3				title		mSAS HD INTERNAL (4i)		dwg no		10122527		rev		J	
				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 = 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: 100 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.

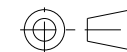
12. "HLF" PRODUCT NUMBERS DESIGNATE THE USE OF HALOGEN FREE RAW CABLE.

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.

FCI
Copyright FCI.

spec ref -				dr Andy Wu		2013/01/03		projection 	mm 	size	A3	scale	1:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Ya Li	2015/04/28	ecn no			ELX-N-20750-1					
				chr	-	-									
ISO 406				appr	Delhly Liu	2015/04/28	product family -			rel level Released					
ISO 1101				 www.fci.com		title		mSAS HD INTERNAL (4i)		dwg no		10122527		rev	J
surface 	linear	0.X	±0.3	 www.fci.com		title		mSAS HD INTERNAL (4i)		dwg no		10122527		rev	J
		0.XX	±0.10												
		0.XXX	±0.005												
ISO 1302	angular	0°	±2°	www.fci.com		cat. no. -		Product - Customer Drw			sheet 4 of 4				