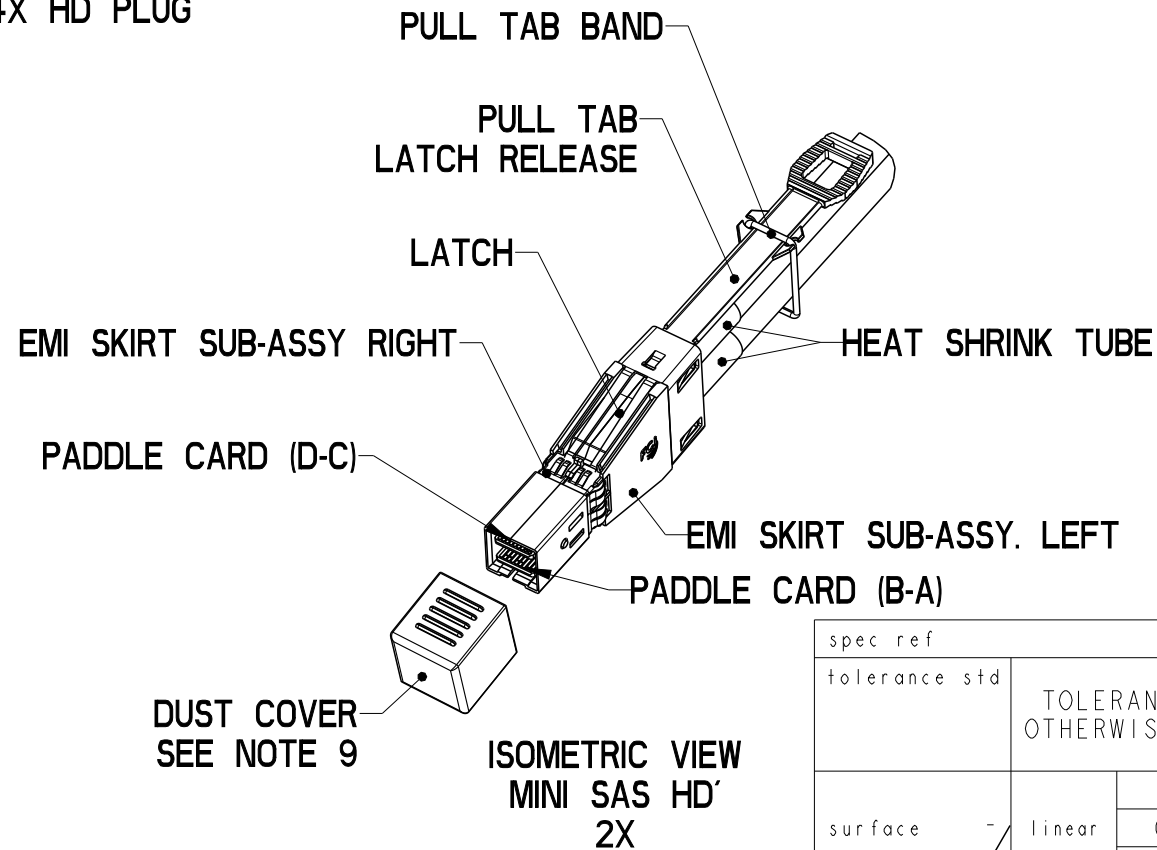
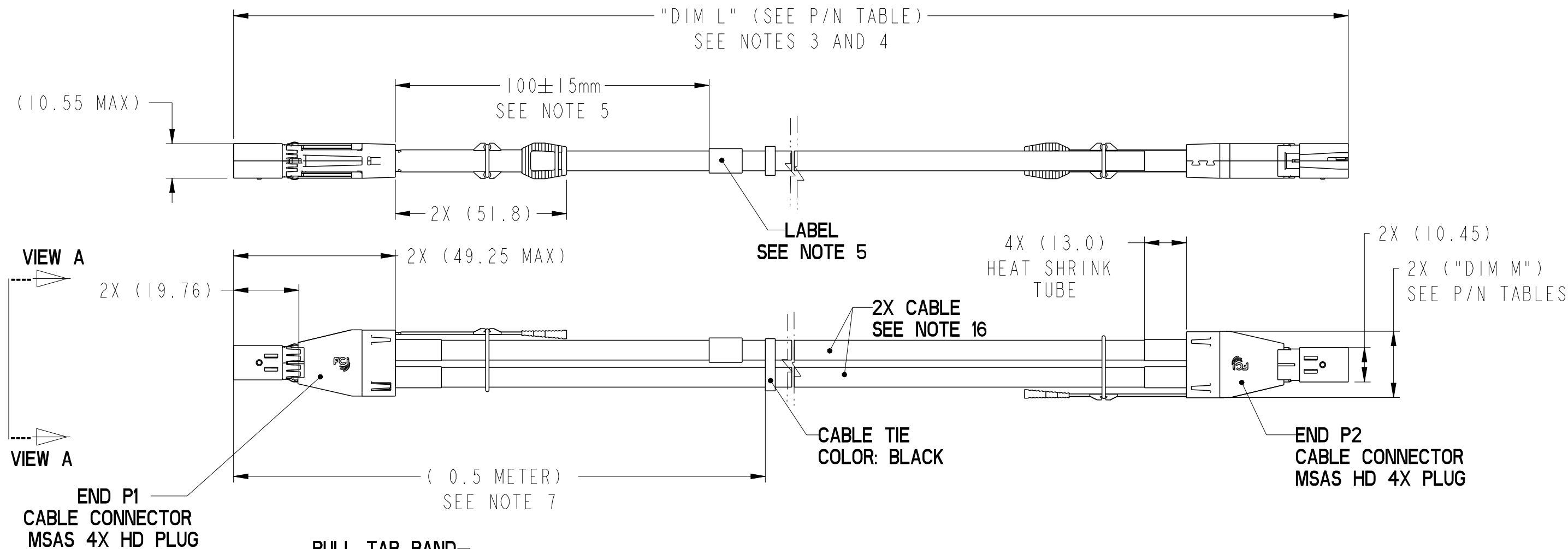
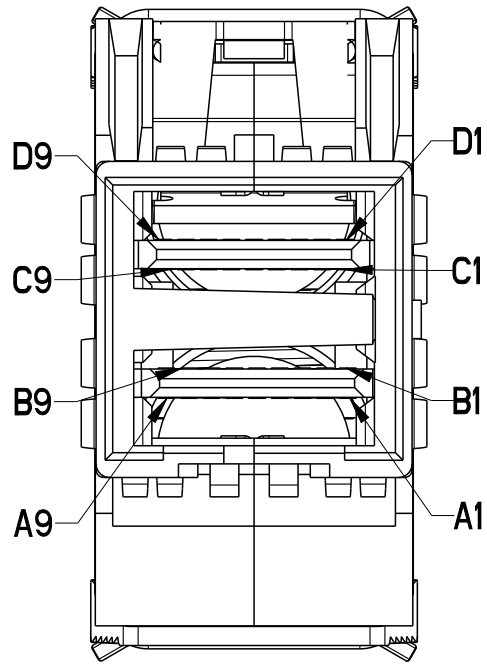


PRODUCT NUMBER	DESCRIPTION	NOTES
10117949-XXXXLF	NON-HF	SEE SHT. 4
10117949-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 4

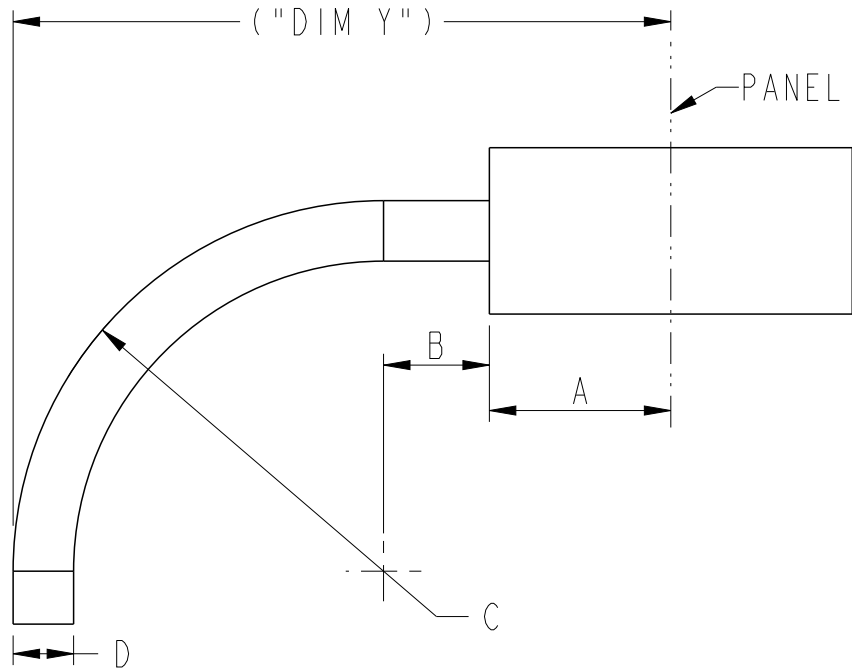


spec ref	dr	David Lord	2011/09/07	projection	mm	size	A3	scale	1:2
tolerance std	eng	Alex Xu	2018/08/17	chr	-	ecn no	ELX-N-30985-1	rel level	Released
	appr	Michael Zhou	2018/08/17	product family	C&A	rel level	Released		
surface	linear	0.X	± -	Amphenol FCi	FINAL ASSEMBLY (PASSIVE)	dwg no	10117949	rev	N
	angular	0°	± - °°		MSAS HD 4X ASSEMBLY (12 Gb/s)	cat. no.	-	Product - Customer Drw	sheet 1 of 4

PRODUCT NUMBER	DESCRIPTION	NOTES
10117949-XXXXLF	NON-HF	SEE SHT. 4
10117949-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 4

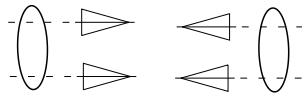


P1
VIEW A
SCALE 4:1

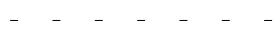


BEND RADIUS
TOP VIEW OF CONNECTOR

LEGEND:



HIGH-SPEED SERIAL
DIFFERENTIAL PAIRS



SIGNAL RETURN



POWER AND MANAGEMENT
INTERFACE

MINIMUM CABLE BEND TABLE

CABLE	A	B	C	D (nominal)	("DIM Y") NON-HF
24 AWG	29.5	13.0	50.28	Ø 8.38	92.78
26 AWG			42.6	Ø 7.1	85.1
28 AWG			36.6	Ø 6.1	79.1
30 AWG			31.8	Ø 5.3	74.3

MINIMUM CABLE BEND TABLE

CABLE	A	B	C	D (nominal)	("DIM Y") HF
24 AWG	29.5	13.0	50.28	Ø 8.38	92.78
26 AWG			45	Ø 7.5	87.5
28 AWG			39	Ø 6.5	81.5
30 AWG			35.4	Ø 5.9	77.9

WIRING LIST (SEE NOTE 6)

END P1

END P2

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	Vman	←→	B2	ModPrsL
D1	Vact	←→	B1	Vact
C1	SCL	←→	A1	Reserved
C2	SDA	←→	A2	IntL
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	ModPrsL	←→	D2	Vman
B1	Vact	←→	D1	Vact
A1	Reserved	←→	C1	SCL
A2	IntL	←→	C2	SDA
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

SHIELD-----

-----SHIELD

spec ref	dr	David Lord	2011/09/07	projection	mm	size	A3	scale	1:2
tolerance std	eng	Alex Xu	2018/08/17	chr	-	ecn no	ELX-N-30985-1	rel level	Released
	appr	Michael Zhou	2018/08/17	product family	C&A	rel level	Released		
surface	linear	0.X	± -	Amphenol FCi	FINAL ASSEMBLY (PASSIVE)	dwg no	10117949	rev	N
		0.XX	± -		MSAS HD 4X ASSEMBLY (12 Gb/s)				
		0.XXX	± -						
	angular	0°	± - °°		cat. no.	-	Product - Customer Drw	sheet 2 of 4	

A

B

C

D

PART NUMBER (NON-HALOGEN FREE) SEE NOTE 12 AND 16	"DIM L" LENGTH (Meters)	"DIM M" (mm)	AWG
10117949-2003LF	0.3	17.3	30
10117949-2004LF	0.4	17.3	30
10117949-2005LF	0.5	17.3	30
10117949-2006LF	0.6	17.3	30
10117949-2007LF	0.7	17.3	30
10117949-2008LF	0.75	17.3	30
10117949-2009LF	0.9	17.3	30
10117949-2010LF	1.0	17.3	30
10117949-2015LF	1.5	17.3	30
10117949-2020LF	2.0	17.3	30
10117949-3005LF	0.5	17.3	28
10117949-3006LF	0.6	17.3	28
10117949-3007LF	0.7	17.3	28
10117949-3008LF	0.8	17.3	28
10117949-3009LF	0.9	17.3	28
10117949-3010LF	1.0	17.3	28
10117949-3015LF	1.5	17.3	28
10117949-3020LF	2.0	17.3	28
10117949-3025LF	2.5	17.3	28
10117949-3030LF	3.0	17.3	28
10117949-4010LF	1.0	20.1	26
10117949-4015LF	1.5	20.1	26
10117949-4020LF	2.0	20.1	26
10117949-4025LF	2.5	20.1	26
10117949-4030LF	3.0	20.1	26
10117949-4035LF	3.5	20.1	26
10117949-4040LF	4.0	20.1	26
10117949-4045LF	4.5	20.1	26
10117949-4050LF	5.0	20.1	26
10117949-4055LF	5.5	20.1	26
10117949-4060LF	6.0	20.1	26
10117949-5010LF	1.0	20.1	24
10117949-5015LF	1.5	20.1	24
10117949-5020LF	2.0	20.1	24
10117949-5025LF	2.5	20.1	24
10117949-5030LF	3.0	20.1	24
10117949-5035LF	3.5	20.1	24
10117949-5040LF	4.0	20.1	24
10117949-5045LF	4.5	20.1	24
10117949-5050LF	5.0	20.1	24
10117949-5055LF	5.5	20.1	24
10117949-5060LF	6.0	20.1	24
10117949-5065LF	6.5	20.1	24
10117949-5070LF	7.0	20.1	24
10117949-5075LF	7.5	20.1	24
10117949-5080LF	8.0	20.1	24

spec ref				dr		David Lord		2011/09/07		projection		mm		size		A3		scale		1:2					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED				eng		Alex Xu		2018/08/17						ecn no		ELX-N-30985-1							
						chr		-		-															
						surface				linear		0.X		± -		Amphenol FCI		title		FINAL ASSEMBLY (PASSIVE)		dwg no		10117949	
0.XX		± -																							
angular		0°		± - °°																					



PART NUMBER (HALOGEN FREE) SEE NOTE 11 AND 16	"DIM L" LENGTH (Meters)	"DIM M" (mm)	AWG
10117949-2003HLF	0.3	17.3	30
10117949-2004HLF	0.4	17.3	30
10117949-2005HLF	0.5	17.3	30
10117949-2006HLF	0.6	17.3	30
10117949-2007HLF	0.7	17.3	30
10117949-2008HLF	0.75	17.3	30
10117949-2009HLF	0.9	17.3	30
10117949-2010HLF	1.0	17.3	30
10117949-2015HLF	1.5	17.3	30
10117949-2020HLF	2.0	17.3	30
10117949-3005HLF	0.5	17.3	28
10117949-3006HLF	0.6	17.3	28
10117949-3007HLF	0.7	17.3	28
10117949-3008HLF	0.8	17.3	28
10117949-3009HLF	0.9	17.3	28
10117949-3010HLF	1.0	17.3	28
10117949-3015HLF	1.5	17.3	28
10117949-3020HLF	2.0	17.3	28
10117949-3025HLF	2.5	17.3	28
10117949-3030HLF	3.0	17.3	28
10117949-3040HLF	4.0	17.3	28
10117949-4010HLF	1.0	20.1	26
10117949-4015HLF	1.5	20.1	26
10117949-4020HLF	2.0	20.1	26
10117949-4025HLF	2.5	20.1	26
10117949-4030HLF	3.0	20.1	26
10117949-4035HLF	3.5	20.1	26
10117949-4040HLF	4.0	20.1	26
10117949-4045HLF	4.5	20.1	26
10117949-4050HLF	5.0	20.1	26
10117949-4055HLF	5.5	20.1	26
10117949-4060HLF	6.0	20.1	26
10117949-5010HLF	1.0	20.1	24
10117949-5015HLF	1.5	20.1	24
10117949-5020HLF	2.0	20.1	24
10117949-5025HLF	2.5	20.1	24
10117949-5030HLF	3.0	20.1	24
10117949-5035HLF	3.5	20.1	24
10117949-5040HLF	4.0	20.1	24
10117949-5045HLF	4.5	20.1	24
10117949-5050HLF	5.0	20.1	24
10117949-5055HLF	5.5	20.1	24
10117949-5060HLF	6.0	20.1	24
10117949-5065HLF	6.5	20.1	24
10117949-5070HLF	7.0	20.1	24
10117949-5075HLF	7.5	20.1	24
10117949-5080HLF	8.0	20.1	24
10117949-5090HLF ONLY USE EXT MSHD INTERFACE DON'T MEET SAS3.0 APPLICATION	9.0	20.1	24
10117949-5100HLF ONLY USE EXT MSHD INTERFACE DON'T MEET SAS3.0 APPLICATION	10.0	20.1	24

Amphenol
FCi

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1

2

3

4

A

B

C

D

PRODUCT NUMBER

10117949-XXXXLF

DESCRIPTION

NON-HF

NOTES

SEE SHT. 4

10117949-XXXXHLF

HALOGEN FREE (H)

SEE SHT. 4

NOTES:

1. MATERIAL:

BACK SHELLS: ZINC ALLOY/ COPPER UNDERPLATE/ NICKEL OVERPLATE

PULL TAB: THERMOPLASTIC POLYMER

LATCH : STAINLESS STEEL

FERRULE: BRASS

EMI SKIRT: STAINLESS STEEL

LOCTITE

PADDLE CARD: PRINTED CIRCUIT SUBSTRATE

HEAT SHRINK TUBE: POLYOLEFIN

2. THIS PRODUCT MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2011/65/EU)

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 4 METERS = ± 2% OF "DIM L"

"DIM L" > 4 METERS = +0.00/-4% OF "DIM L"

5. LABEL DETAILS:

MANUFACTURER CODE OR NAME

COUNTRY ORIGIN

FCI P/N

FCI CUSTOMER DRAWING REVISION

FCI SERIAL NUMBER

BAR CODE OF SERIAL NUMBER

CE MARK

FONT SHALL BE CLEARLY VISIBLE AND BLACK IN COLOR.

CE MARK VERTICAL DIMENSION MAY NOT BE LESS THAN 5mm.

SERIAL NUMBER IS ONLY USED FOR TRACKING PRODUCT,DETAIL IS AS BELOW :

CN1321HB052L0001

CN PRESENT MADE IN CHINA

YYWW(YEAR AND WEEK)

PRESENT PRODUCT BASE NUMBER(USE "HB")

SEQUENCE NUMBER(0001~9999)

PRESENT NON-HF OR HF TYPE(L IS NON-HALOGEN FREE,H IS HALOGEN FREE)

CABLE AWG(2 IS 30AWG,3 IS 28AWG,4 IS 26AWG,5 IS 24AWG)

LENGTH(03 IS 0.3METER,05 IS 0.5METER,0A IS 0.75METER,10 IS 1METER,15 IS 1.5METER,20 IS 2METER,0B IS 10METER ETC)

CABLE LABEL EXAMPLE:

N

FCI CHINA

10117949-2005LF

REV.N

CN1321HB052L0001

|||||

CE

←CE MARK VERTICAL DIMENSION MAY NOT BE LESS THAN 5mm,

6. ALL CABLE ASSEMBLIES 100% TESTED FOR CONTINUITY AS DEFINED IN WIRING LIST.

7. PLACE A CABLE TIE EVERY 0.5 METER ON ALL ASSEMBLIES, UNLESS OTHERWISE SPECIFIED.

IN CASE OF 0.5 METER CABLE ASSEMBLY, CABLE TIE IS TO BE APPLIED AT THE MIDWAY POINT.

8. OTHER TESTING PERFORMED AS REQUIRED BY PRODUCT SPECIFICATION: GS-12-651.

9. PACKAGING OF LEAD FREE PRODUCTS MEETS LABELING AND PACKAGING PER SPECIFICATION GS-14-920.

PACKAGE CABLE ASSEMBLIES PER GS-14-1272.

DUST COVERS ARE TO BE ASSEMBLED PRIOR TO PACKAGING.

FCI PACKAGE TRACKING BAG LABEL IS ONLY FOR REFERENCE.

CE MARK SHOULD BE ADDED ON FCI STANDARD PACKAGE LABEL(G1 LABEL)

CE MARK VERTICAL DIM. MAY NOT BE LESS THAN 5mm.

NOTES CONTINUED:

10. 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.

11. "H" PRODUCT NUMBERS DESIGNATE THE USE OF HALOGEN FREE RAW CABLE.

12. HALOGEN FREE RAW CABLE CAN BE USED AS A SUBSTITUTE ON NON-HF PRODUCT NUMBERS.

13. CABLE ASSEMBLY CAN MEET SAS 3.0 SPECIFICATION.

14. MATES TO SERIES: 10112626 or 10112627 Or 10112628

15. EEPROM INFORMATION REFER TO FCI LATEST PRODUCT SPEC. GS-12-651.

16. CABLE IS OPTIONAL,WHICH HAD BEEN QUALIFIED BY FCI AND MEET FCI PRODUCT SPEC. GS-12-651.

spec ref

tolerance std

surface

TOLERANCES UNLESS OTHERWISE SPECIFIED

linear

angular

0.X

0.XX

0.XXX

0°

± -

± -

± -

± - °°

dr

eng

chr

appr

David Lord

Alex Xu

-

Michael Zhou

2011/09/07

2018/08/17

-

2018/08/17

projection

mm

←

→

product family

C&A

size

A3

ecn no

ELX-N-30985-1

scale

1:2

rel level

Released

Amphenol
FCi

FINAL ASSEMBLY (PASSIVE)

MSAS HD 4X ASSEMBLY (12 Gb/s)

cat. no.

-

Product - Customer Drw

sheet 4 of 4

dwg no

10117949

rev

N

1

2

3

4

PDS: Rev :N

STATUS:Released

Printed: Aug 17, 2018

Mouser Electronics

Authorized Distributor

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FCI / Amphenol:

[10117949-4020LF](#) [10117949-2005HLF](#) [10117949-3020LF](#) [10117949-4020HLF](#) [10117949-2005LF](#) [10117949-4035HLF](#) [10117949-2010LF](#) [10117949-2010HLF](#) [10117949-4035LF](#) [10117949-2020HLF](#) [10117949-3010HLF](#) [10117949-4025LF](#) [10117949-2015LF](#) [10117949-3025LF](#) [10117949-4040LF](#) [10117949-4030LF](#) [10117949-4060LF](#) [10117949-3020HLF](#) [10117949-3015HLF](#) [10117949-5080LF](#) [10117949-3030HLF](#) [10117949-3025HLF](#) [10117949-4050HLF](#) [10117949-3030LF](#) [10117949-2015HLF](#) [10117949-4040HLF](#) [10117949-5100LF](#) [10117949-2003LF](#) [10117949-4030HLF](#) [10117949-4025HLF](#) [10117949-3015LF](#) [10117949-4050LF](#) [10117949-2020LF](#) [10117949-3010LF](#) [10117949-5070LF](#) [10117949-5060HLF](#) [10117949-3006HLF](#) [10117949-3006LF](#) [10117949-2008HLF](#) [10117949-2008LF](#) [10117949-5050HLF](#) [10117949-5040HLF](#) [10117949-5030HLF](#) [10117949-4060HLF](#) [10117949-5060LF](#) [10117949-4010LF](#)