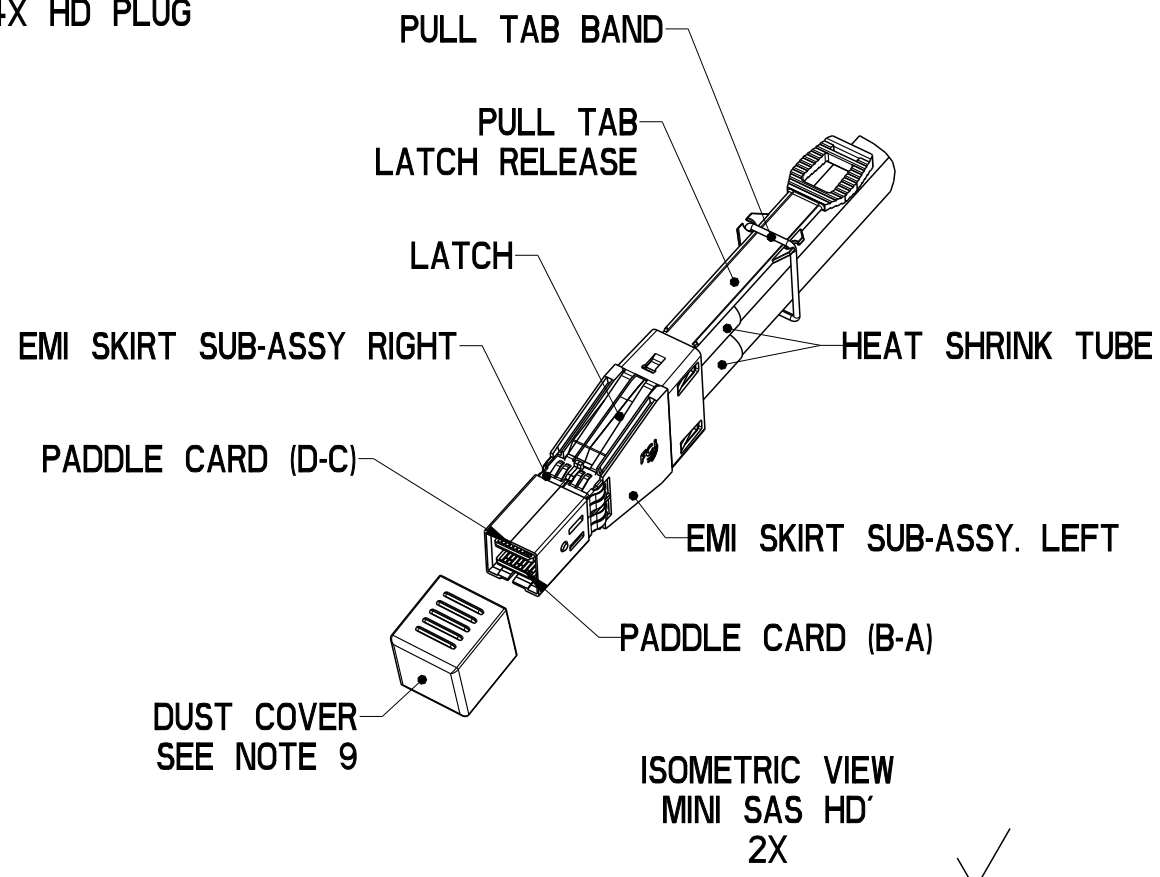
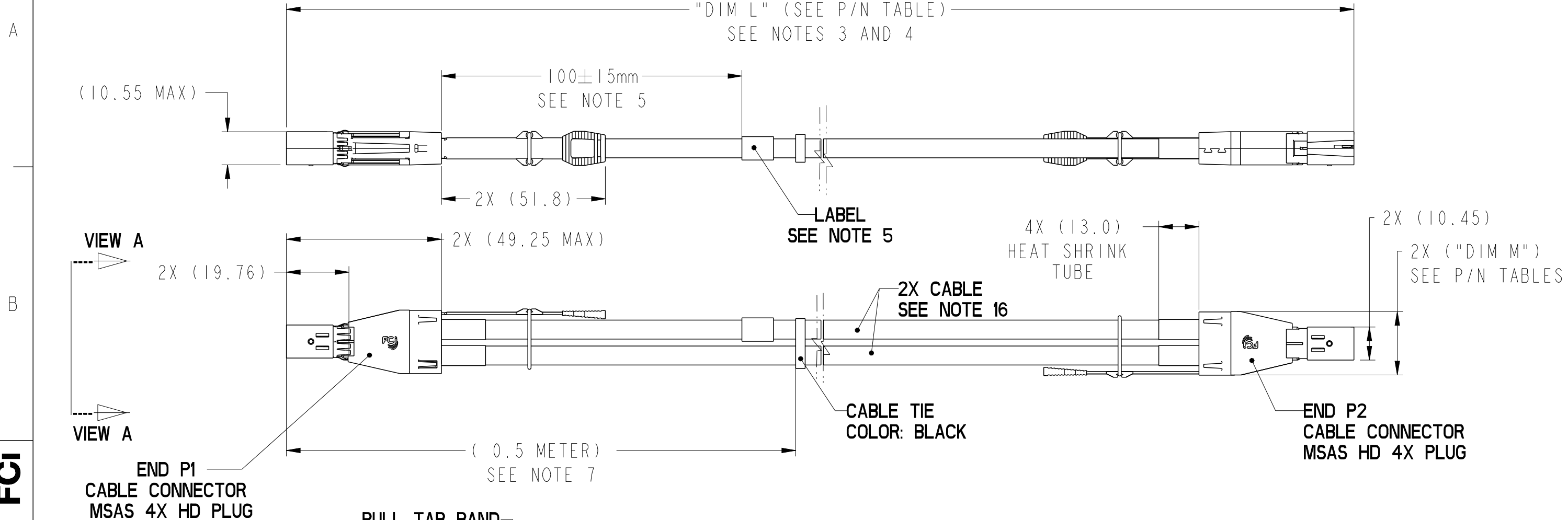


PRODUCT NUMBER	DESCRIPTION	NOTES
10117949-XXXXLF	NON-HF	SEE SHT. 3
10117949-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 3

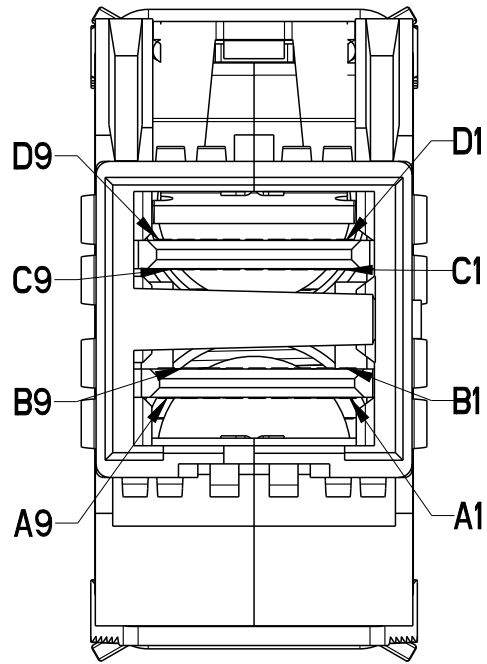


dr	David Lord	2011/09/07	projection	mm	size	A3	scale	1:2
eng	Tom Feng	2016/09/22			ecn no	ELX-N-24287-1		
chr	-	-			rel level	Released		
appr	Michael Zhou	2016/09/22	product family	C&A				
Amphenol FCI	FINAL ASSEMBLY (PASSIVE)				dwg no	10117949	rev	M
www.fci.com	MSAS HD 4X ASSEMBLY (12 Gb/s)							
cat. no.	-	Product - Customer Drw	sheet 1 of 4					

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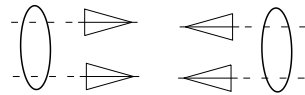
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PRODUCT NUMBER	DESCRIPTION	NOTES
10117949-XXXXLF	NON-HF	SEE SHT. 3
10117949-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 3



P1
VIEW A
SCALE 4:1

LEGEND:



HIGH-SPEED SERIAL
DIFFERENTIAL PAIRS

SIGNAL RETURN



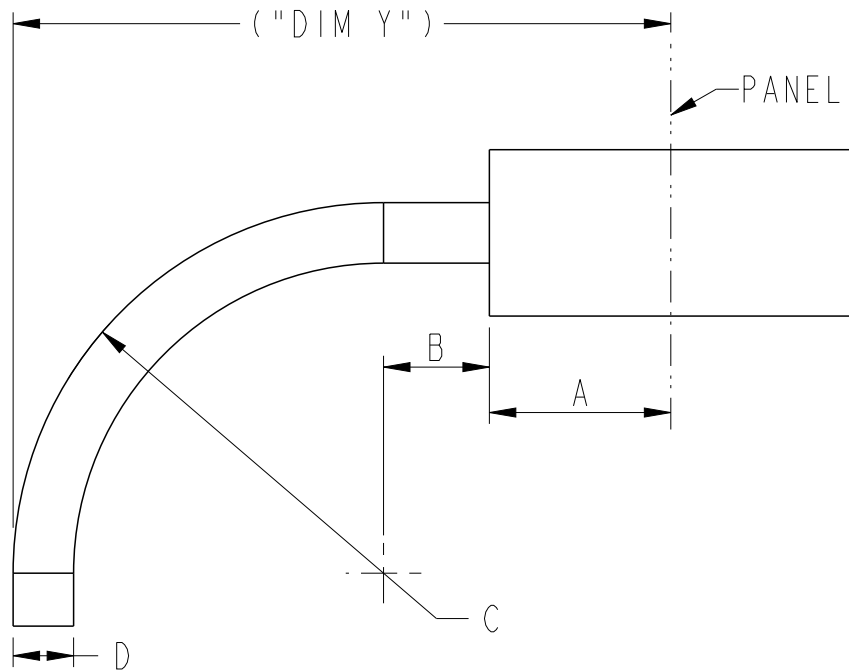
POWER AND MANAGEMENT
INTERFACE

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

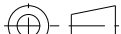


BEND RADIUS
TOP VIEW OF CONNECTOR

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	IntI	
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

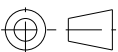
dr	David Lord	2011/09/07	projection  mm	size	A3	scale	1:2	
eng	Tom Feng	2016/09/22		ecn no	ELX-N-24287-1			
chr	-	-		rel level	Released			
appr	Michael Zhou	2016/09/22	product family		C&A			
Amphenol FCI	title	FINAL ASSEMBLY (PASSIVE)			dwg no	10117949		rev
		MSAS HD 4X ASSEMBLY (12 Gb/s)						
www.fci.com	cat. no.	-	Product - Customer Drw				sheet 2 of 4	

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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

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
10117949-4010HLF	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

dr	David Lord	2011/09/07	projection 	mm 	size	scale				
eng	Tom Feng	2016/09/22			A3	1:2				
chr	-	-			ecn no ELX-N-24287-1					
appr	Michael Zhou	2016/09/22	product family		C&A	rel level	Released			
Amphenol FCI		title			FINAL ASSEMBLY (PASSIVE)		dwg no	10117949	rev	
		MSAS HD 4X ASSEMBLY (12 Gb/s)								
www.fci.com		cat. no.		-	Product - Customer Drw			sheet 3 of 4		

PRODUCT NUMBER	DESCRIPTION	NOTES
10117949-XXXXLF	NON-HF	SEE SHT. 3
10117949-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 3

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 = $\pm 25\text{mm}$
"DIM L" 1 METER TO 4 METERS = $\pm 2\%$ OF "DIM L"
"DIM L" > 4 METERS = $+0.00/-4\%$ OF "DIM L"

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.

△

MANUFACTURER CODE OR NAME COUNTRY ORIGIN
 FCI P/N
 FCI CUSTOMER DRAWING REVISION
 FCI SERIAL NUMBER
 BAR CODE OF SERIAL NUMBER

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)

—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)

PRESENT PRODUCT BASE NUMBER(USE "HB")

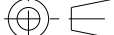
CABLE LABEL EXAMPLE:

FCI CHINA
10117949-2005LF **CE**
REV.M
CN1321HB052L0001
||| ||| ||| |||

← 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(GI LABEL),
CE MARK VERTICAL DIM. MAY NOT BE LESS THAN 5mm.

✓

dr	David Lord	2011/09/07	projection  	size	A3	scale	1:2		
eng	Tom Feng	2016/09/22		ecn no	ELX-N-24287-1				
chr	-	-		rel level	Released				
appr	Michael Zhou	2016/09/22	product family		C&A				
Amphenol FCI	title	FINAL ASSEMBLY (PASSIVE)			dwg no	10117949		rev	M
		MSAS HD 4X ASSEMBLY (12 Gb/s)							
www.fci.com	cat. no.	-	Product - Customer Drw				sheet 4 of 4		

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

FCI / Amphenol:

[10117949-4060LF](#) [10117949-5080LF](#) [10117949-4050HLF](#) [10117949-5100LF](#) [10117949-2003LF](#) [10117949-4050LF](#)
[10117949-5070LF](#) [10117949-5060HLF](#) [10117949-3006HLF](#) [10117949-3006LF](#) [10117949-2008HLF](#) [10117949-](#)
[2008LF](#) [10117949-5050HLF](#) [10117949-5040HLF](#) [10117949-5030HLF](#) [101179492015L](#) [101179494035HL](#)
[101179494025HL](#) [101179492020L](#) [101179494020L](#) [101179494030L](#) [10117949-4060HLF](#) [101179494035L](#)
[10117949-5060LF](#) [10117949-3050LF](#) [10117949-4010LF](#) [101179494025L](#) [101179494030HL](#) [101179492015HL](#)
[101179493010HL](#) [101179494020HL](#) [101179492020HL](#) [101179492010L](#) [101179494040HL](#) [101179493030HL](#)
[101179494040L](#) [101179493020HL](#) [101179493025HL](#) [101179492005HL](#) [101179492005L](#) [101179493030L](#)
[101179492010HL](#) [101179495100L](#) [101179493015L](#) [101179493025L](#) [101179492003L](#) [101179493015HL](#)
[101179493010L](#) [101179493020L](#)