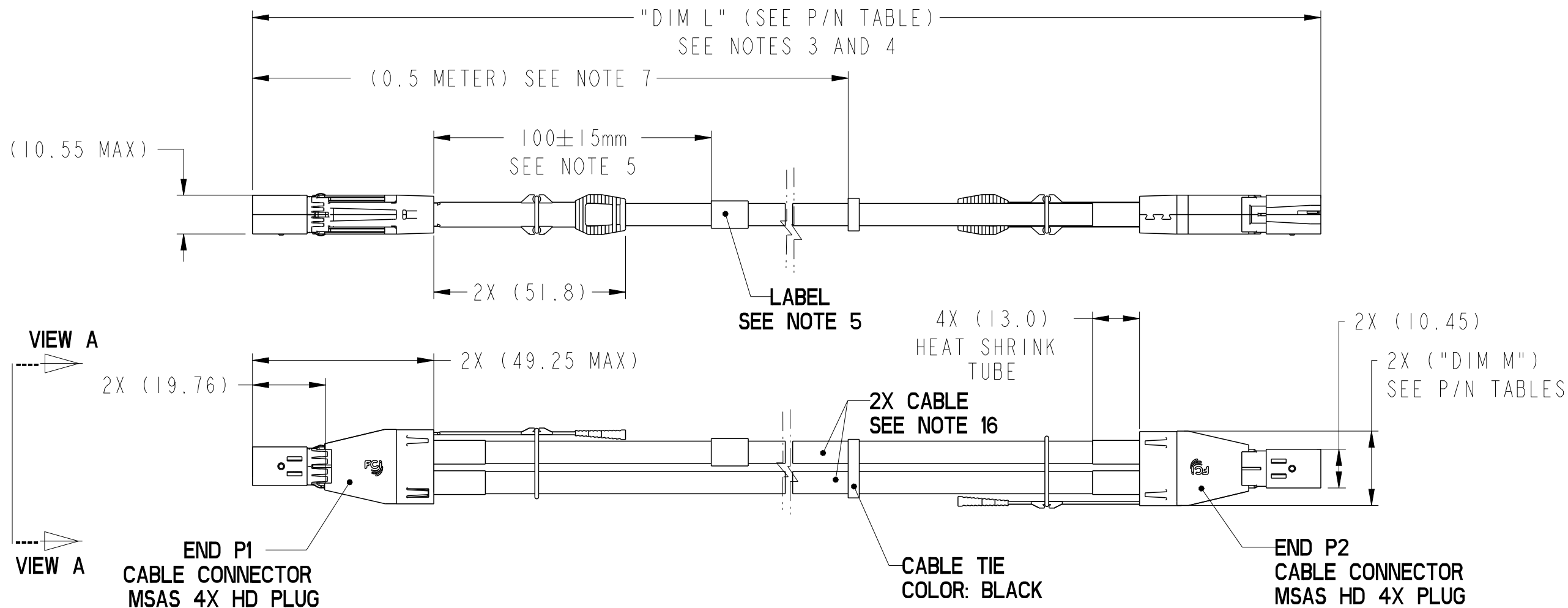


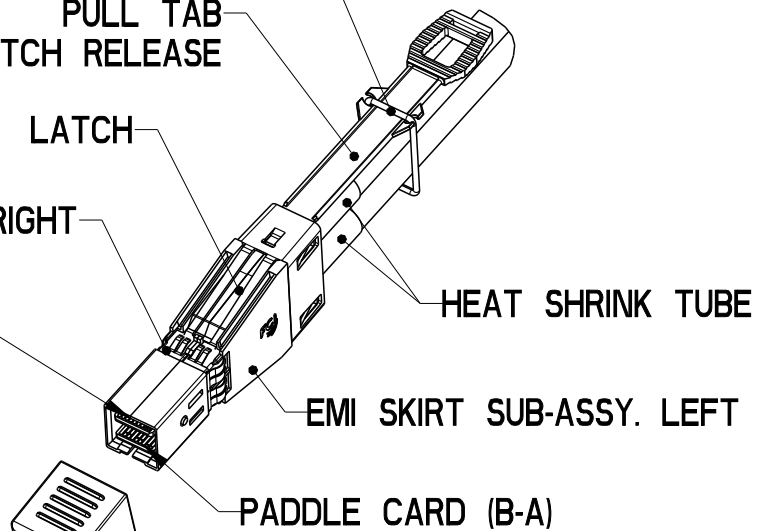
PRODUCT NUMBER	DESCRIPTION	NOTES
10112041-XXXXLF	NON-HF	SEE SHT. 3
10112041-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 4



END P1
CABLE CONNECTOR
MSAS 4X HD PLUG

PULL TAB BAND
PULL TAB
LATCH RELEASE

EMI SKIRT SUB-ASSY RIGHT
PADDLE CARD (D-C)



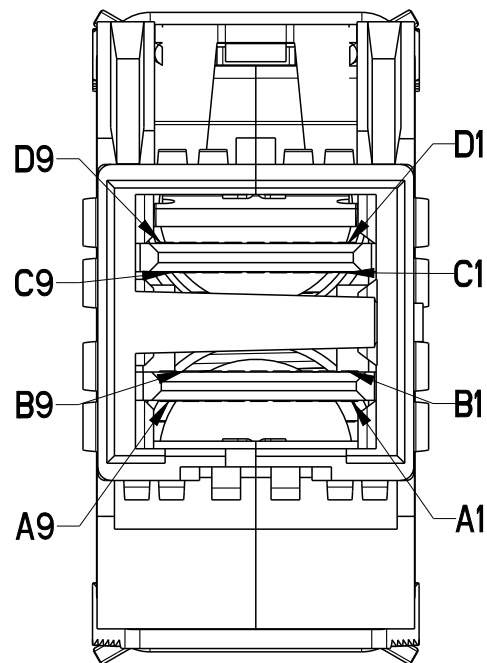
ISOMETRIC VIEW
MINI SAS HD
2X

dr	Deborah Ingram	2010/05/07	projection	mm	size	A3	scale	1:2
eng	Tom Feng	2015/08/12			ecn no	ELX-N-21649-1		
chr	-	-			rel level	Released		
appr	Frank Mao	2015/08/12	product family	C&A				
www.fci.com			title	FINAL ASSEMBLY (PASSIVE) MSAS HD 4X ASSEMBLY (3Gb/s - 6Gb/s)		dwg no	10112041	
			cat. no.	-		Product - Customer Drw	sheet 1 of 5	



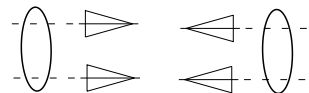
Copyright FCI.

PRODUCT NUMBER	DESCRIPTION	NOTES
10112041-XXXXLF	NON-HF	SEE SHT. 3
10112041-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 4



P1
VIEW A
SCALE 4:1

LEGEND:



HIGH-SPEED SERIAL
DIFFERENTIAL PAIRS



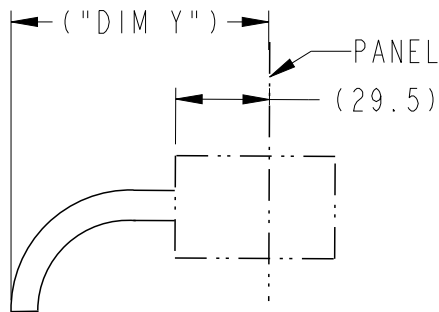
SIGNAL RETURN



POWER AND MANAGEMENT
INTERFACE

MINIMUM CABLE BEND TABLE

CABLE	("DIM Y") HF	("DIM Y") NON-HF
24 AWG	92.8	92.8
26 AWG	87.5	85.1
28 AWG	81.5	79.1
30 AWG	77.9	74.3



PEND 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	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

dr	Deborah Ingram	2010/05/07	<div>projection</div> <div></div>	<div>mm</div> <div></div>	size	A3	scale	1:2
eng	Tom Feng	2015/08/12			ecn no	ELX-N-21649-1		
chr	-	-			rel level	Released		
appr	Frank Mao	2015/08/12	product family		C&A			
	title	FINAL ASSEMBLY (PASSIVE)			dwg no	10112041		rev
		MSAS HD 4X ASSEMBLY (3Gb/s - 6Gb/s)						
www.fci.com	cat. no.	-	Product - Customer Drw			sheet 2 of 5		

A

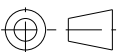


B

C

D

PART NUMBER (NON-HALOGEN FREE) SEE NOTE 12 AND 16	"DIM L" LENGTH (Meters)	"DIM M" (mm)	AWG
10112041-2005LF	0.5	17.3	30
10112041-2010LF	1.0	17.3	30
10112041-2015LF	1.5	17.3	30
10112041-2020LF	2.0	17.3	30
10112041-2025LF	2.5	17.3	30
10112041-2030LF	3.0	17.3	30
10112041-2040LF	4.0	17.3	30
10112041-3010LF	1.0	17.3	28
10112041-3015LF	1.5	17.3	28
10112041-3020LF	2.0	17.3	28
10112041-3025LF	2.5	17.3	28
10112041-3030LF	3.0	17.3	28
10112041-3035LF	3.5	17.3	28
10112041-3040LF	4.0	17.3	28
10112041-3045LF	4.5	17.3	28
10112041-3050LF	5.0	17.3	28
10112041-3060LF	6.0	17.3	28
10112041-3065LF	6.5	17.3	28
ONLY FOR CUSTOMER SPECIAL APPLIACATION, NOT STD OFFERING FOR THIS LENGTH			
10112041-4020LF	2.0	20.1	26
10112041-4025LF	2.5	20.1	26
10112041-4030LF	3.0	20.1	26
10112041-4035LF	3.5	20.1	26
10112041-4040LF	4.0	20.1	26
10112041-4045LF	4.5	20.1	26
10112041-4050LF	5.0	20.1	26
10112041-4055LF	5.5	20.1	26
10112041-4060LF	6.0	20.1	26
10112041-4065LF	6.5	20.1	26
10112041-4070LF	7.0	20.1	26
10112041-4080LF	8.0	20.1	26

NON-HALOGEN FREE CABLE ASSEMBLY PART NUMBERS

dr	Deborah Ingram	2010/05/07	<div>projection</div> <div></div>	<div>mm</div> <div></div>	size	A3	scale	1:2	
eng	Tom Feng	2015/08/12							
chr	-	-							
appr	Frank Mao	2015/08/12	product family		C&A	ecn no	ELX-N-21649-1		
					rel level	Released			
	title	FINAL ASSEMBLY (PASSIVE)			dwg no	10112041		rev	
		MSAS HD 4X ASSEMBLY (3Gb/s - 6Gb/s)							
www.fci.com	cat. no.	-	Product - Customer Drw				sheet 3 of 5		

1

2

3

4

A

B

C

D

A

B

C

D

PART NUMBER (HALOGEN FREE) SEE NOTE 11 AND 16	"DIM L" LENGTH (Meters)	"DIM M" (mm)	AWG
10112041-2005HLF	0.5	17.3	30
10112041-2010HLF	1.0	17.3	30
10112041-2015HLF	1.5	17.3	30
10112041-2020HLF	2.0	17.3	30
10112041-2025HLF	2.5	17.3	30
10112041-2030HLF	3.0	17.3	30
10112041-2040HLF	4.0	17.3	30
10112041-3010HLF	1.0	17.3	28
10112041-3015HLF	1.5	17.3	28
10112041-3020HLF	2.0	17.3	28
10112041-3025HLF	2.5	17.3	28
10112041-3030HLF	3.0	17.3	28
10112041-3035HLF	3.5	17.3	28
10112041-3040HLF	4.0	17.3	28
10112041-3045HLF	4.5	17.3	28
10112041-3050HLF	5.0	17.3	28
10112041-3060HLF	6.0	17.3	28
10112041-4020HLF	2.0	20.1	26
10112041-4025HLF	2.5	20.1	26
10112041-4030HLF	3.0	20.1	26
10112041-4035HLF	3.5	20.1	26
10112041-4040HLF	4.0	20.1	26
10112041-4045HLF	4.5	20.1	26
10112041-4050HLF	5.0	20.1	26
10112041-4055HLF	5.5	20.1	26
10112041-4060HLF	6.0	20.1	26
10112041-4065HLF	6.5	20.1	26
10112041-4070HLF	7.0	20.1	26
10112041-4080HLF	8.0	20.1	26

PART NUMBER (HALOGEN FREE) SEE NOTE 11 AND 16	"DIM L" LENGTH (Meters)	"DIM M" (mm)	AWG
10112041-5030HLF	3.0	20.1	24
10112041-5035HLF	3.5	20.1	24
10112041-5040HLF	4.0	20.1	24
10112041-5045HLF	4.5	20.1	24
10112041-5050HLF	5.0	20.1	24
10112041-5055HLF	5.5	20.1	24
10112041-5060HLF	6.0	20.1	24
10112041-5065HLF	6.5	20.1	24
10112041-5070HLF	7.0	20.1	24
10112041-5075HLF	7.5	20.1	24
10112041-5080HLF	8.0	20.1	24
10112041-5085HLF	8.5	20.1	24
10112041-5090HLF	9.0	20.1	24
10112041-5095HLF	9.5	20.1	24
10112041-5100HLF	10.0	20.1	24

HALOGEN FREE CABLE ASSEMBLY PART NUMBERS



Copyright FCI.

dr	Deborah Ingram	2010/05/07	<div>projection</div> <div></div>	<div>mm</div> <div></div>	size	A3	scale	1:2	
eng	Tom Feng	2015/08/12			ecn no	ELX-N-21649-1			
chr	-	-							
appr	Frank Mao	2015/08/12	product family		C&A	rel level	Released		
<div>FCi</div>		title		FINAL ASSEMBLY (PASSIVE)		dwg no		10112041	rev
				MSAS HD 4X ASSEMBLY (3Gb/s - 6Gb/s)					D
www.fci.com		cat. no.		-		Product - Customer Drw			sheet 4 of 5

2

3

PDS: Rev :D

STATUS:Released

Printed: Aug 12, 2015

PRODUCT NUMBER	DESCRIPTION	NOTES
10112041-XXXXLF	NON-HF	SEE SHT. 3
10112041-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: HIGH POLYMER

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 = $\pm 2.5\text{mm}$
"DIM L" 1 METER TO 10 METERS = $\pm 2\%$ OF "DIM L"
"DIM L" > 10 METERS = $+0.00/-4\%$ OF "DIM L"

5- LABEL DETAILS:
MANUFACTURER CODE OR NAME COUNTRY OF 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.

6- ALL CABLE ASSEMBLIES SHALL BE 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.

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. MEETS ELECTRICAL REQUIREMENTS OF SAS 2.1.

14. MATES WITH SERIES: 10112626 or 10112627 or 10112628

NOTES CONTINUED:

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

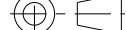

16. CABLE IS OPTIONAL, WHICH HAD BEEN QUALIFIED BY FCI AND MEET FCI PRODUCT SPEC. GS-12-651.

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

CN1352HA052L0001
CN PRESENT MADE IN CHINA
YYWW(YEAR AND WEEK)
PRESENT PRODUCT BASE NUMBER(USE "HA")
SEQUENCE NUMBER(0001~9999)
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(05 IS 0.5METER, 10 IS 1METER, 15 IS 1.5METER, ETC)

CABLE LABEL EXAMPLE:



dr	Deborah Ingram	2010/05/07	<div>projection</div> <div></div>	<div>mm</div> <div></div>	size	A3	scale	1:2	
eng	Tom Feng	2015/08/12			ecn no				ELX-N-21649-1
chr	-	-			rel level				Released
appr	Frank Mao	2015/08/12	product family		C&A				
<div>www.fci.com</div>		cat. no.		-	Product - Customer Drw			sheet 5 of 5	
<div>FCi</div>		title			FINAL ASSEMBLY (PASSIVE)			rev	
		MSAS HD 4X ASSEMBLY (3Gb/s - 6Gb/s)			10112041				
					dwg no			D	