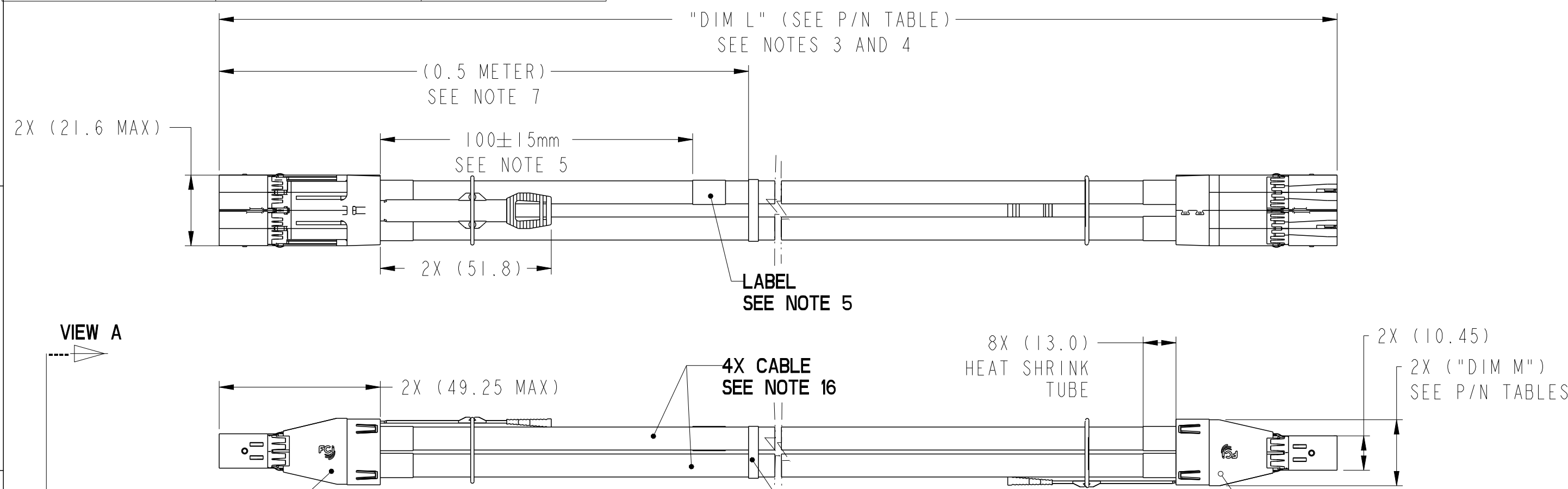


PRODUCT NUMBER	DESCRIPTION	NOTES
10112359-XXXXLF	NON-HF	SEE SHT. 3
10112359-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 4



VIEW A

VIEW A

END P1
CABLE CONNECTOR
MSAS 8X HD PLUG

PULL TAB
LATCH RELEASE

LATCH

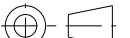
EMI SKIRT
SUB-ASSY RIGHT
PADDLE CARD
(D-C)

DUST COVER
SEE NOTE 9

PADDLE CARD
(B-A)

PULL TAB BAND
HEAT SHRINK TUBE
EMI SKIRT SUB-ASSY LEFT
EMI SKIRT SUB-ASSY CENTER

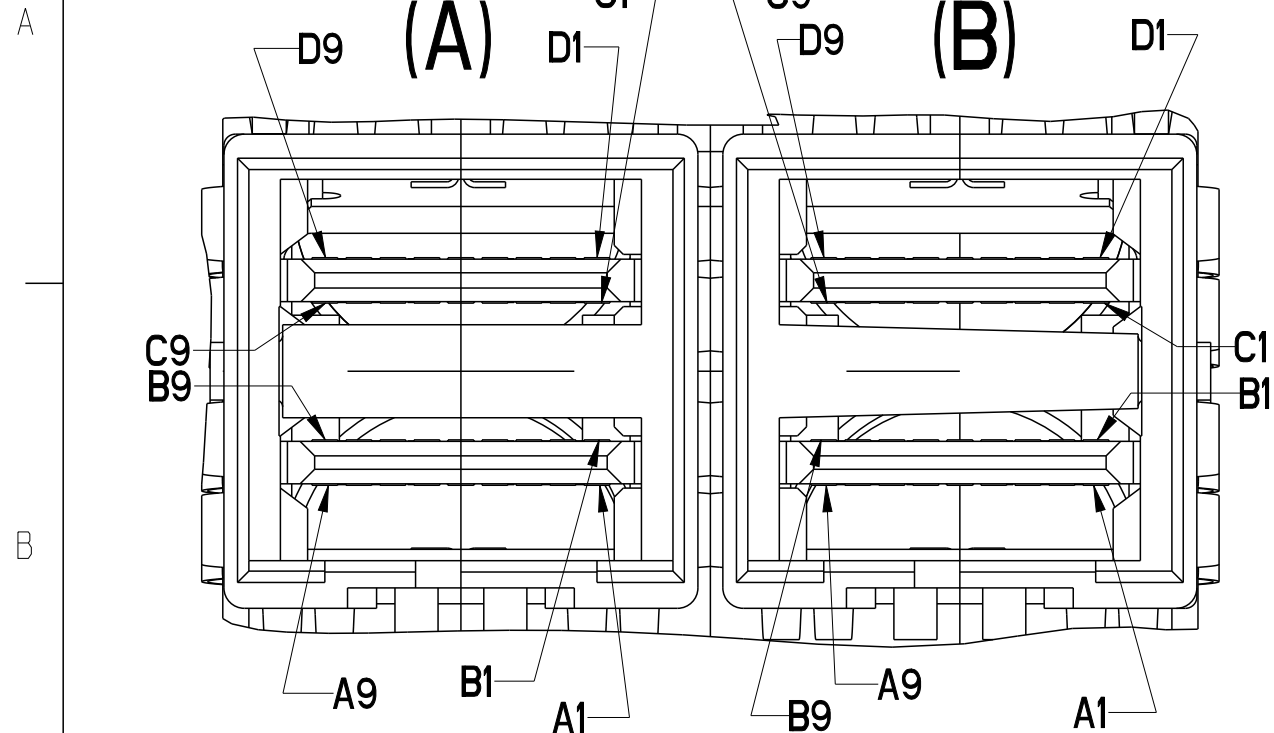
ISOMETRIC VIEW
MINI SAS 8X HD
2X

dr	Deborah Ingram	2010/06/24	projection 	mm	size	A3	scale	4:5
eng	Tommy Lin	2014/01/03			ecn no	E	ELX-N-16637-1	
chr	-	-				rel level		
appr	Roger Cheng	2014/01/05	product family		C&A			
			title		FINAL ASSEMBLY (PASSIVE)			rev
					MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s)			
www.fci.com			cat. no.	-	Product - Customer Drw			sheet 1 of 5
			dwg no		10112359			B

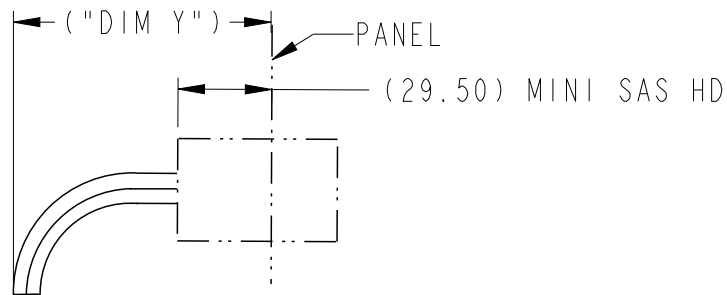


Copyright FCI.

PRODUCT NUMBER	DESCRIPTION	NOTES
10112359-XXXXLF	NON-HF	SEE SHT. 3
10112359-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 4



VIEW A (END P1)
SCALE 6:1



BEND RADIUS
TOP VIEW OF CONNECTOR

MINI SAS HD MINIMUM CABLE BEND TABLE		
CABLE	("DIM Y") HF	("DIM Y") (NON-HF)
24 AWG	101.2	101.2
26 AWG	95	92.2
28 AWG	88	85.2
30 AWG	83.8	79.6

LENGEND:

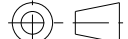
	HIGH-SPEED SERIAL DIFFERENTIAL PAIRS
	SIGNAL RETURN
	POWER AND MANAGEMENT INTERFACE

P1-(A) TO P2-(A)
P1-(B) TO P2-(B)

WIRING LIST (SEE NOTE 6)

END P1 / (A) (B)			END P2 / (A) (B)		
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	2010/06/24	projection 	mm 	size	A3	scale	1:1			
eng	Tommy Lin	2014/01/03			ecn no	E	ELX-N-16637-1				
chr	-	-									
appr	Roger Cheng	2014/01/05	product family		C&A	rel level		Released			
		title			FINAL ASSEMBLY (PASSIVE) MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s)			dwg no	10112359	rev	B
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	LENGTH "DIM L" (Meters)	("DIM M") (mm)	AWG
10112359-2005LF	0.5	17.3	30
10112359-2010LF	1.0	17.3	30
10112359-2015LF	1.5	17.3	30
10112359-2020LF	2.0	17.3	30
10112359-2025LF	2.5	17.3	30
10112359-2030LF	3.0	17.3	30
10112359-3005LF	0.5	17.3	28
10112359-3010LF	1.0	17.3	28
10112359-3015LF	1.5	17.3	28
10112359-3020LF	2.0	17.3	28
10112359-3025LF	2.5	17.3	28
10112359-3030LF	3.0	17.3	28
10112359-3035LF	3.5	17.3	28
10112359-3040LF	4.0	17.3	28
10112359-3045LF	4.5	17.3	28
10112359-3050LF	5.0	17.3	28
10112359-4005LF	0.5	20.1	26
10112359-4010LF	1.0	20.1	26
10112359-4015LF	1.5	20.1	26
10112359-4020LF	2.0	20.1	26
10112359-4025LF	2.5	20.1	26
10112359-4030LF	3.0	20.1	26
10112359-4035LF	3.5	20.1	26
10112359-4040LF	4.0	20.1	26
10112359-4045LF	4.5	20.1	26
10112359-4050LF	5.0	20.1	26
10112359-4055LF	5.5	20.1	26
10112359-4060LF	6.0	20.1	26
10112359-4065LF	6.5	20.1	26
10112359-4070LF	7.0	20.1	26

NON-HALOGEN FREE CABLE ASSEMBLY PART NUMBERS

3

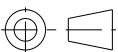
PART NUMBER (NON-HALOGEN FREE) SEE NOTE 12 AND 16	LENGTH "DIM L" (Meters)	("DIM M") (mm)	AWG
10112359-5005LF	0.5	20.1	24
10112359-5010LF	1.0	20.1	24
10112359-5015LF	1.5	20.1	24
10112359-5020LF	2.0	20.1	24
10112359-5025LF	2.5	20.1	24
10112359-5030LF	3.0	20.1	24
10112359-5035LF	3.5	20.1	24
10112359-5040LF	4.0	20.1	24
10112359-5045LF	4.5	20.1	24
10112359-5050LF	5.0	20.1	24
10112359-5055LF	5.5	20.1	24
10112359-5060LF	6.0	20.1	24
10112359-5065LF	6.5	20.1	24
10112359-5070LF	7.0	20.1	24
10112359-5075LF	7.5	20.1	24
10112359-5080LF	8.0	20.1	24
10112359-5085LF	8.5	20.1	24
10112359-5090LF	9.0	20.1	24
10112359-5095LF	9.5	20.1	24
10112359-5100LF	10.0	20.1	24

A

B

C

D

dr	Deborah Ingram	2010/06/24	projection 	mm 	size	scale		
eng	Tommy Lin	2014/01/03			A3	1:1		
chr	-	-			ecn no E	ELX-N-16637-1		
appr	Roger Cheng	2014/01/05	product family C&A		rel level Released			
		title FINAL ASSEMBLY (PASSIVE) MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s)			dwg no 10112359		rev B	
www.fci.com		cat. no. -			Product - Customer Drw		sheet 3 of 5	

2

3

PDS: Rev :B

STATUS:Released

Printed: Jan 06, 2014

1

2

3

4

A

B

C

D

A

B

C

D

PART NUMBER (HALOGEN FREE) SEE NOTE 11 AND 16	LENGTH "DIM L" (Meters)	("DIM M") (mm)	AWG
10112359-2005HLF	0.5	17.3	30
10112359-2010HLF	1.0	17.3	30
10112359-2015HLF	1.5	17.3	30
10112359-2020HLF	2.0	17.3	30
10112359-2025HLF	2.5	17.3	30
10112359-2030HLF	3.0	17.3	30
10112359-3005HLF	0.5	17.3	28
10112359-3010HLF	1.0	17.3	28
10112359-3015HLF	1.5	17.3	28
10112359-3020HLF	2.0	17.3	28
10112359-3025HLF	2.5	17.3	28
10112359-3030HLF	3.0	17.3	28
10112359-3035HLF	3.5	17.3	28
10112359-3040HLF	4.0	17.3	28
10112359-3045HLF	4.5	17.3	28
10112359-3050HLF	5.0	17.3	28
10112359-4005HLF	0.5	20.1	26
10112359-4010HLF	1.0	20.1	26
10112359-4015HLF	1.5	20.1	26
10112359-4020HLF	2.0	20.1	26
10112359-4025HLF	2.5	20.1	26
10112359-4030HLF	3.0	20.1	26
10112359-4035HLF	3.5	20.1	26
10112359-4040HLF	4.0	20.1	26
10112359-4045HLF	4.5	20.1	26
10112359-4050HLF	5.0	20.1	26
10112359-4055HLF	5.5	20.1	26
10112359-4060HLF	6.0	20.1	26
10112359-4065HLF	6.5	20.1	26
10112359-4070HLF	7.0	20.1	26

PART NUMBER (HALOGEN FREE) SEE NOTE 11 AND 16	LENGTH "DIM L" (Meters)	("DIM M") (mm)	AWG
10112359-5005HLF	0.5	20.1	24
10112359-5010HLF	1.0	20.1	24
10112359-5015HLF	1.5	20.1	24
10112359-5020HLF	2.0	20.1	24
10112359-5025HLF	2.5	20.1	24
10112359-5030HLF	3.0	20.1	24
10112359-5035HLF	3.5	20.1	24
10112359-5040HLF	4.0	20.1	24
10112359-5045HLF	4.5	20.1	24
10112359-5050HLF	5.0	20.1	24
10112359-5055HLF	5.5	20.1	24
10112359-5060HLF	6.0	20.1	24
10112359-5065HLF	6.5	20.1	24
10112359-5070HLF	7.0	20.1	24
10112359-5075HLF	7.5	20.1	24
10112359-5080HLF	8.0	20.1	24
10112359-5085HLF	8.5	20.1	24
10112359-5090HLF	9.0	20.1	24
10112359-5095HLF	9.5	20.1	24
10112359-5100HLF	10.0	20.1	24

HALOGEN FREE CABLE ASSEMBLY PART NUMBERS



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dr	Deborah Ingram	2010/06/24	projection	mm	size	scale			
eng	Tommy Lin	2014/01/03			A3	1:2			
chr	-	-			ecn no	E	ELX-N-16637-1		
appr	Roger Cheng	2014/01/05	product family		C&A	rel level	Released		
	title	FINAL ASSEMBLY (PASSIVE) MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s)			dwg no	10112359		rev	
www.fci.com	cat. no.	-	Product - Customer Drw				sheet 4 of 5		

2

3

PDS: Rev :B

STATUS:Released

Printed: Jan 06, 2014



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D

C

B

A

PRODUCT NUMBER	DESCRIPTION	NOTES
10112359-XXXXLF	NON-HF	SEE SHT. 3
10112359-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 = $\pm 25\text{mm}$
"DIM L" 1 METER TO 10 METERS = $\pm 2\%$ OF "DIM L"
"DIM L" > 10 METERS = $+0.00/-4\%$ OF "DIM L"

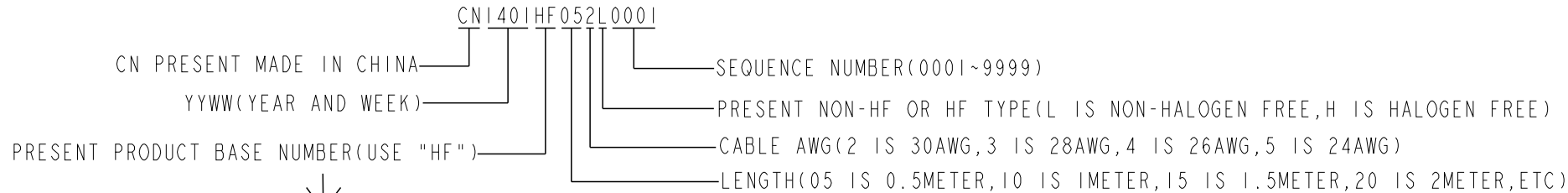


5. LABEL DETAILS:

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

FONT SHALL BE CLEARLY VISIBLE AND BLACK IN COLOR.

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



CABLE LABEL EXAMPLE:

FCI	CHINA
10112359-2005LF	
REV.B	
CNI401HF052L0001	

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.

NOTES CONTINUED:

10. A " $\triangle$ " 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 2.1 SPECIFICATION.

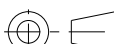
14. MATES TO SERIES: 10112626 or 10112627 Or 10112628



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.

dr	Deborah Ingram	2010/06/24	projection 	mm 	size	A3	scale	1:2
eng	Tommy Lin	2014/01/03			ecn no	E	ELX-N-16637-1	
chr	-	-			rel level	Released		
appr	Roger Cheng	2014/01/05	product family		C&A			
	title	FINAL ASSEMBLY (PASSIVE)			dwg no	10112359		rev
		MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s)						
www.fci.com	cat. no.	-	Product - Customer Drw				sheet 5 of 5	