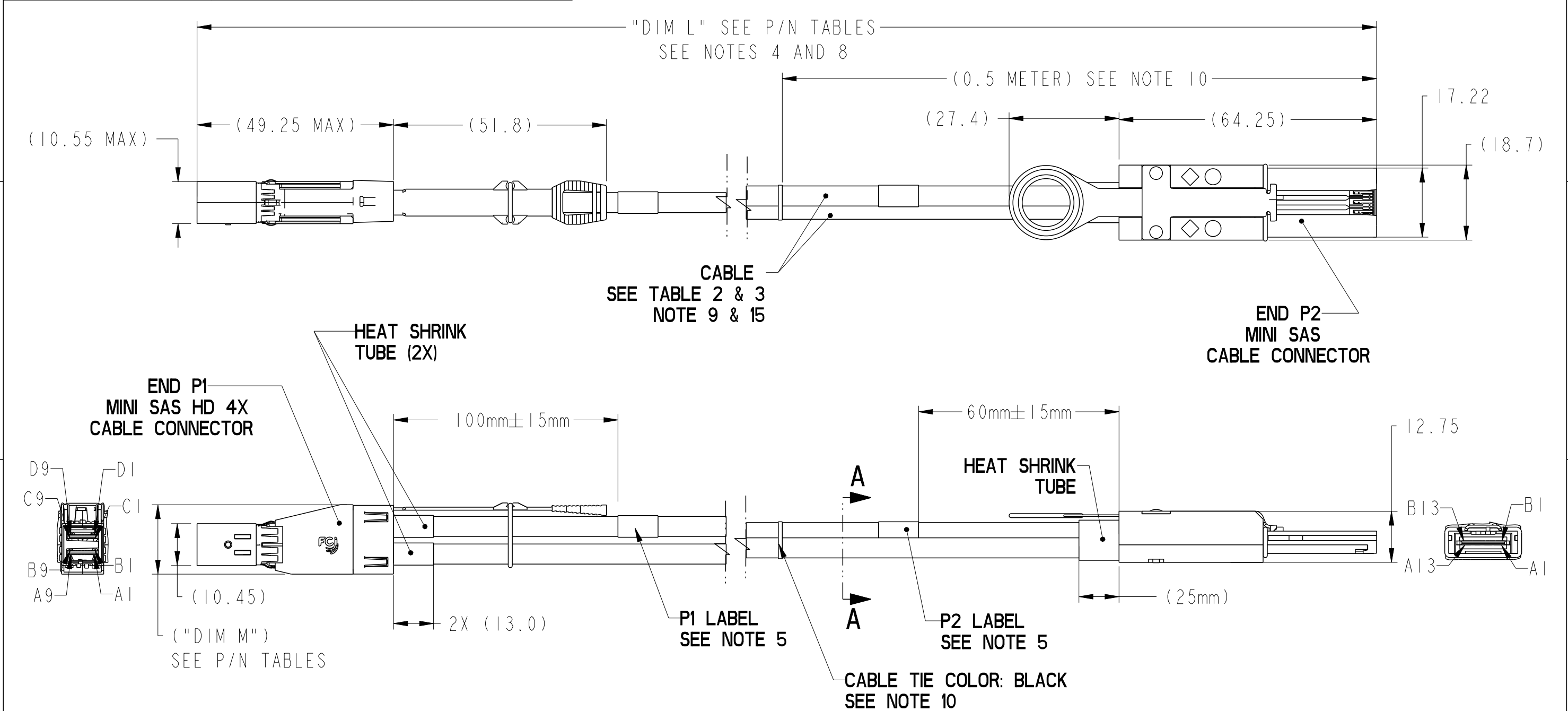
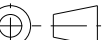


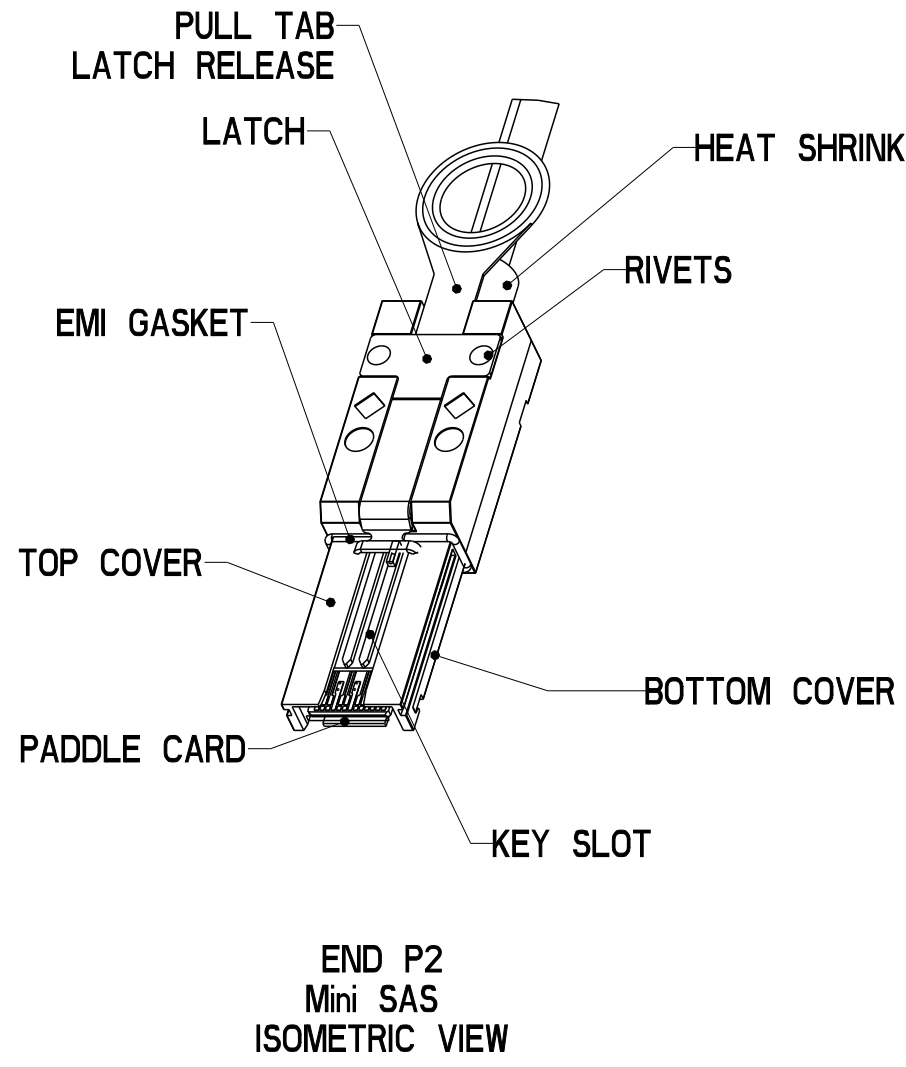
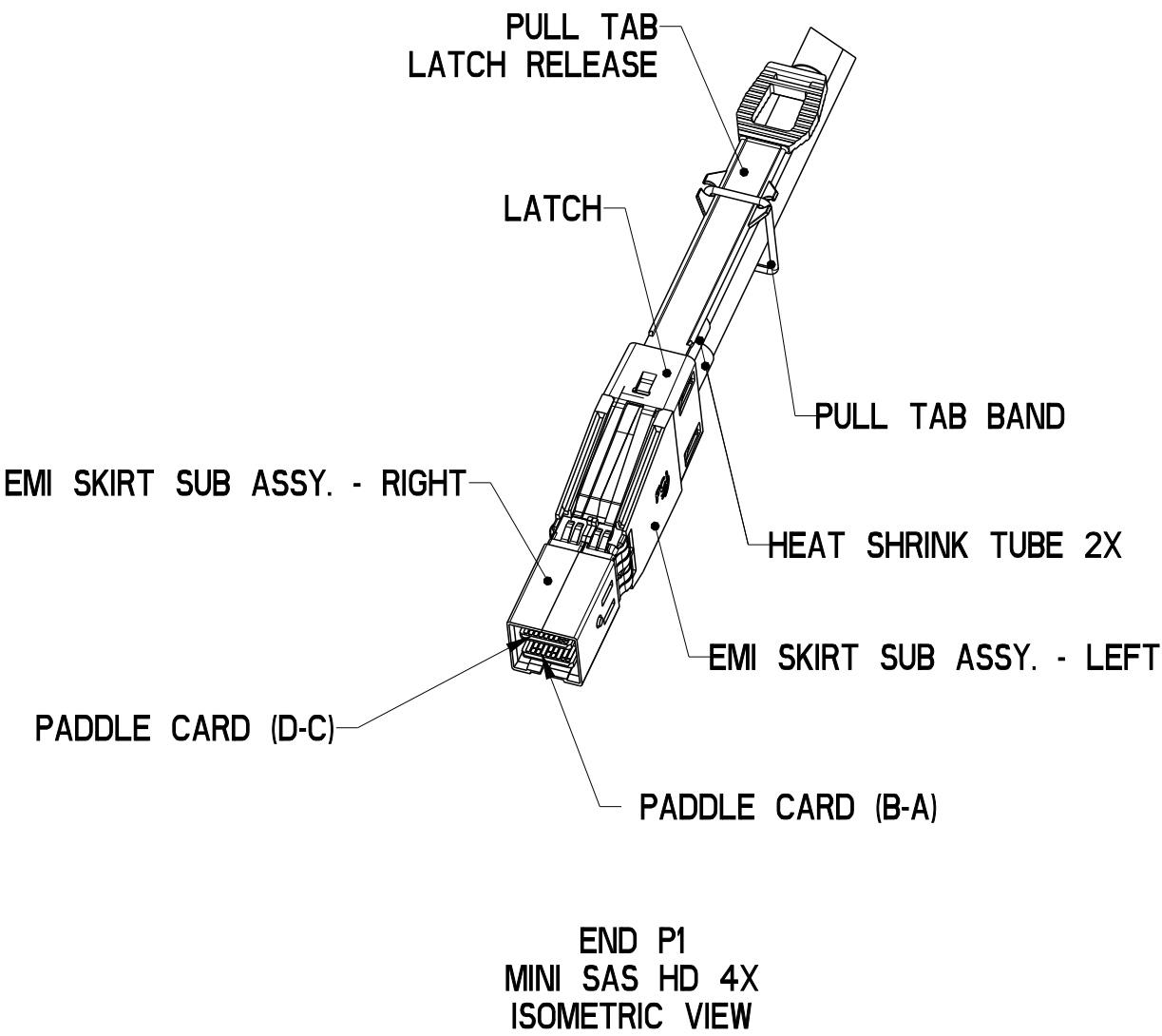
PRODUCT NUMBER	DESCRIPTION	NOTES
10117771-XXXXLF	NON-HF	SEE SHT. 3
10117771-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 3



SECTION A-A
SCALE 2:1
CABLE ORIENTATION ONLY
MSAS END P2

dr	Deborah Ingram	2011/03/17	projection 	MM 	size	A3	scale	1:1			
eng	Tommy Lin	2013/12/19			ecn no	ELX-N-16475-1					
chr	-	-									
appr	Roger Cheng	2013/12/19	product family		C&A	rel level		Released			
FCi		title			Mini SAS HD 4X TO Mini SAS 2.1 TRAINED UNIVERSAL FINAL ASSEMBLY (6Gb/s)			dwg no	10117771	rev	B
www.fci.com		cat. no.		-		Product - Customer Drw			sheet 1 of 5		

PRODUCT NUMBER	DESCRIPTION	NOTES
10117771-XXXXLF	NON-HF	SEE SHT. 3
10117771-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 3

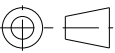


dr	Deborah Ingram	2011/03/17	projection	MM	size	A3	scale	1:1				
eng	Tommy Lin	2013/12/19			ecn no	ELX-N-16475-1						
chr	-	-			rel level	Released						
appr	Roger Cheng	2013/12/19	product family		C&A							
			title			Mini SAS HD 4X TO Mini SAS 2.1		dwg no	10117771	rev	B	
www.fci.com			cat. no.			-	Product - Customer Drw					sheet 2 of 5

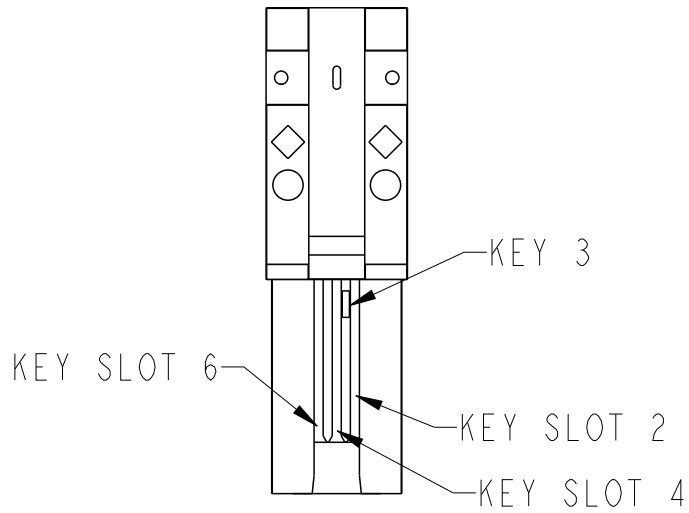
PRODUCT NUMBER	DESCRIPTION	NOTES
10117771-XXXXLF	NON-HF	SEE SHT. 3
10117771-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 3

PRODUCT NUMBER (HALOGEN FREE) SEE NOTE 9 & 15	AWG	"DIM L" LENGTH (Meters)	"DIM M" HIEGHT (mm)
10117771-5030HLF	24 AWG	3 M	(20.1)
10117771-5040HLF	24 AWG	4 M	(20.1)
10117771-5050HLF	24 AWG	5 M	(20.1)
10117771-5060HLF	24 AWG	6 M	(20.1)
10117771-5070HLF	24 AWG	7 M	(20.1)
10117771-5080HLF	24 AWG	8 M	(20.1)
10117771-5090HLF	24 AWG	9 M	(20.1)
10117771-5100HLF	24 AWG	10 M	(20.1)
10117771-4020HLF	26 AWG	2 M	(20.1)
10117771-4030HLF	26 AWG	3 M	(20.1)
10117771-4040HLF	26 AWG	4 M	(20.1)
10117771-4050HLF	26 AWG	5 M	(20.1)
10117771-4060HLF	26 AWG	6 M	(20.1)
10117771-4070HLF	26 AWG	7 M	(20.1)
10117771-4080HLF	26 AWG	8 M	(20.1)
10117771-3010HLF	28 AWG	1 M	(17.3)
10117771-3020HLF	28 AWG	2 M	(17.3)
10117771-3030HLF	28 AWG	3 M	(17.3)
10117771-3040HLF	28 AWG	4 M	(17.3)
10117771-3050HLF	28 AWG	5 M	(17.3)
10117771-3060HLF	28 AWG	6 M	(17.3)
10117771-2005HLF	30 AWG	0.5 M	(17.3)
10117771-2010HLF	30 AWG	1 M	(17.3)
10117771-2020HLF	30 AWG	2 M	(17.3)
10117771-2030HLF	30 AWG	3 M	(17.3)
10117771-2040HLF	30 AWG	4 M	(17.3)

PRODUCT NUMBER (NON-HALOGEN FREE) SEE NOTE 15	AWG	"DIM L" LENGTH (Meters)	"DIM M" HIEGHT (mm)
10117771-5030LF	24 AWG	3 M	(20.1)
10117771-5040LF	24 AWG	4 M	(20.1)
10117771-5050LF	24 AWG	5 M	(20.1)
10117771-5060LF	24 AWG	6 M	(20.1)
10117771-5070LF	24 AWG	7 M	(20.1)
10117771-5080LF	24 AWG	8 M	(20.1)
10117771-5090LF	24 AWG	9 M	(20.1)
10117771-5100LF	24 AWG	10 M	(20.1)
10117771-4020LF	26 AWG	2 M	(20.1)
10117771-4030LF	26 AWG	3 M	(20.1)
10117771-4040LF	26 AWG	4 M	(20.1)
10117771-4050LF	26 AWG	5 M	(20.1)
10117771-4060LF	26 AWG	6 M	(20.1)
10117771-4070LF	26 AWG	7 M	(20.1)
10117771-4080LF	26 AWG	8 M	(20.1)
10117771-3010LF	28 AWG	1 M	(17.3)
10117771-3020LF	28 AWG	2 M	(17.3)
10117771-3030LF	28 AWG	3 M	(17.3)
10117771-3040LF	28 AWG	4 M	(17.3)
10117771-3050LF	28 AWG	5 M	(17.3)
10117771-3060LF	28 AWG	6 M	(17.3)
10117771-2005LF	30 AWG	0.5 M	(17.3)
10117771-2010LF	30 AWG	1 M	(17.3)
10117771-2020LF	30 AWG	2 M	(17.3)
10117771-2030LF	30 AWG	3 M	(17.3)
10117771-2040LF	30 AWG	4 M	(17.3)

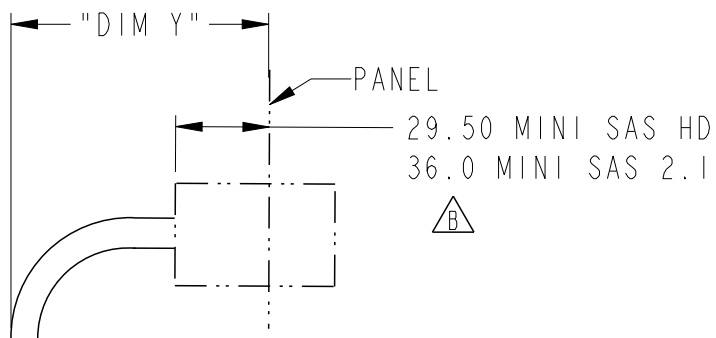
dr	Deborah Ingram	2011/03/17	projection 	size	A3	scale	1:1
eng	Tommy Lin	2013/12/19		ecn no			ELX-N-16475-1
chr	-	-		rel level			Released
appr	Roger Cheng	2013/12/19	product family	C&A			
		Mini SAS HD 4X TO Mini SAS 2.1			dwg no		10117771
www.fci.com		cat. no.			rev		B
		Product - Customer Drw			sheet 3 of 5		

PRODUCT NUMBER	DESCRIPTION	NOTES
10117771-XXXXLF	NON-HF	SEE SHT. 3
10117771-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 3



KEY 3 & KEY SLOT 2, 4 & 6
○ ◇ UNIVERSAL PORT

END P2
MINI SAS

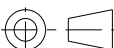
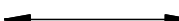


PEND RADIUS
TOP VIEW OF CONNECTOR

MINI SAS HD MINIMUM BEND TABLE		
CABLE	"DIM Y" (HF)	"DIM Y" (NON-HF)
24 AWG	92.8	90.5
26 AWG	87.5	85.1
28 AWG	81.5	79.1
30 AWG	77.9	74.3

MINI SAS 2.1 MINIMUM BEND TABLE		
CABLE	"DIM Y" (HF)	"DIM Y" (NON-HF)
24 AWG	90.6	88.3
26 AWG	85.3	82.9
28 AWG	79.3	76.9
30 AWG	75.7	72.1

WIRING LIST (SEE NOTE 6)				
P1 (MINI SAS HD)			P2 (MINI SAS)	
SIGNAL	PIN#	CONDUCTOR #	PIN#	SIGNAL
GND	A9		B7	GND
Rx 1-	A5	PAIR 2	B6	Tx 1-
Rx 1+	A4		B5	Tx 1+
GND	A3		B4	GND
Rx 3-	A8	PAIR 4	B12	Tx 3-
Rx 3+	A7		B11	Tx 3+
GND	A6		B13	GND
N/C	A1	NO THRU CONNECTION		
Interrupt	A2			
GND	B9			GND
RX 0-	B5	PAIR 1	B3	TX 0-
RX 0+	B4		B2	TX 0+
GND	B3		B1	GND
RX 2-	B8	PAIR 3	B9	TX 2-
RX 2+	B7		B8	TX 2+
GND	B6		B10	GND
N/C	B1	NO THRU CONNECTION		
Mod_PRS_L (GND)	B2			
GND	C9		A7	GND
TX 1-	C5	PAIR 2	A6	RX 1-
TX 1+	C4		A5	RX 1+
GND	C3		A4	GND
TX 3-	C8	PAIR 4	A12	RX 3-
TX 3+	C7		A11	RX 3+
GND	C6		A13	GND
SCL	C1	NO THRU CONNECTION		
SDA	C2			
GND	D9			GND
TX 0-	D5	PAIR 1	A3	RX 0-
TX 0+	D4		A2	RX 0+
GND	D3		A1	GND
TX 2-	D8	PAIR 3	A9	RX 2-
TX 2+	D7		A8	RX 2+
GND	D6		A10	GND
N/C	D1	NO THRU CONNECTION		
V+3.3 for EEPROM	D2			
SHELL		BRAID		SHELL

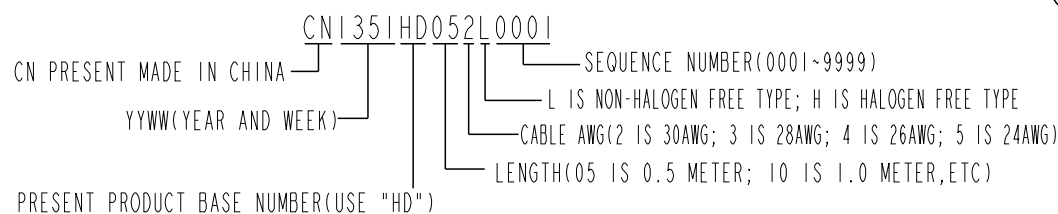
dr	Deborah Ingram	2011/03/17	projection 	MM 	size	A3	scale	1:1	
eng	Tommy Lin	2013/12/19			ecn no				ELX-N-16475-1
chr	-	-			rel level				Released
appr	Roger Cheng	2013/12/19	product family			C&A			
FCi		title			Mini SAS HD 4X TO Mini SAS 2.1			rev	
					dwg no				
					10117771			B	
		TRAINED UNIVERSAL FINAL ASSEMBLY (6Gb/s)							
www.fci.com		cat. no.		-	Product - Customer Drw			sheet 4 of 5	

PRODUCT NUMBER	DESCRIPTION	NOTES
10117771-XXXXLF	NON-HF	SEE SHT. 3
10117771-XXXXHLF	HALOGEN FREE (H)	SEE SHT. 3

 CABLE LABEL EXAMPLE:

FCI CHINA 10117771-2005LF REV.B CNI351HD052L0001	CE
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FCI SERIAL NUMBER IS ONLY USED FOR TRACKING PRODUCT ,
SERIAL NUMBER IS DEFINED AS BELOW:



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

NOTES:

1 - MATERIALS MINI SAS HD (END P1)
BACK SHELLS: ZINC DIE CAST/ COPPER UNDER PLATE/NICKEL OVER PLATE
PULL TAB: THERMOPLASTIC POLYMER
LATCH: STAINLESS STEEL
FERRULE: BRASS
EMI GASKETS: STAINLESS STEEL
LOCTITE
HEAT SHRINK: HIGH POLYMER
PADDLE CARD: PRINTED CIRCUIT SUBSTRATE

MATERIALS MINI SAS (END P2)
BACK SHELLS: ZINC DIE CAST
PULL TAB: THERMOPLASTIC POLYMER
LATCH: STAINLESS STEEL
JET MELT: POLYAMIDE POLYMER
HEAT SHRINK: POLYOLEFIN
PADDLE CARD: PRINTED CIRCUIT SUBSTRATE

2 - ELECTRICAL PERFORMANCE PER CURRENT REVISION: T10/SAS-2.1

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

 4 - UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE IS TO BE:
"DIM L" < 1 METERS = $\pm 25\text{mm}$
"DIM L" = 1 METER TO 10 METER = 2% OF "DIM L"

5- LABEL DETAILS:

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

FONT SHALL BE CLEARLY VISIBLE AND BLACK IN COLOR.
CE MARK VERTICAL DIMENSION MAY NOT BE LESS THAN 5mm.

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

7 -PACKAGING OF LEAD FREE PRODUCTS MEETS LABELING AND PACKAGING PER SPECIFICATION GS-14-920.
 PACKAGE CABLE ASSEMBLIES PER GS-14-1272. DUST COVER IS TO BE APPLIED TO MINI SAS HD CONNECTOR PRIOR TO SHIPPING.
CE MARK SHOULD BE ADDED ON FCI STANDARD PACKAGE LABEL(G1 LABEL),CE MARK VERTICAL DIM. MAY NOT BE LESS THAN 5mm.

 8- THIS DIMENSION IS A FINISHED PRODUCT LENGTH.

 9. "H" IN THE PART NUMBER DENOTES USE OF HALOGEN FREE CABLE.

 10. PLACE A CABLE TIE EVERY 0.5 METERS, IN THE CASE OF A 0.5 METER CABLE LENGTH, PLACE THE CABLE TIE MIDWAY
BETWEEN CONNECTORS.

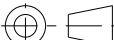
11. A "" SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED
WITH THE CURRENT DRAWING REVISION. THE CURRENT REVISION WILL BE SHOWN IN THE SYMBOL.

12. MATES TO SERIES: MINI SAS HD - 10112626 or 10112627 or 10112628
MINI SAS 2.1 - BOARD CONNECTOR 10098870 AND CAGE 10098871

13. OTHER TESTING PERFORMED AS REQUIRED BY PRODUCT SPECIFICATION: MINISAS HD GS-12-651, MINI SAS 2.1 GS-12-548

 14. EEPROM INFORMATION OF MSHD SIDE REFER TO FCI PRODUCT SPEC. GS-12-651.

 15. CABLE IS OPTIONAL,WHICH HAD BEEN QUALIFIED BY FCI AND MEET FCI PRODUCT SPEC. GS-12-651/548.

dr	Deborah Ingram	2011/03/17	projection 	MM 	size	A3	scale	1:1
eng	Tommy Lin	2013/12/19			ecn no	ELX-N-16475-1		
chr	-	-			rel level			Released
appr	Roger Cheng	2013/12/19	product family		C&A			
	title	Mini SAS HD 4X TO Mini SAS 2.1			dwg no	10117771		rev
		TRAINED UNIVERSAL FINAL ASSEMBLY (6Gb/s)						B
www.fci.com	cat. no.	-	Product - Customer Drw				sheet 5 of 5	



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331