

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



CABLE  
SEE TABLE 2 & 3  
NOTE 9 & 15

END P2  
MINI SAS  
CABLE CONNECTOR

END P1  
MINI SAS HD 4X  
CABLE CONNECTOR

HEAT SHRINK  
TUBE (2X)



P1 LABEL  
SEE NOTE 5

P2 LABEL  
SEE NOTE 5

CABLE TIE COLOR: BLACK  
SEE NOTE 10

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	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 Mini SAS HD 4X TO Mini SAS 2.1 TRAINED UNIVERSAL FINAL ASSEMBLY (6Gb/s)		dwg no 10117771	rev C			
www.fci.com		cat. no.	-		Product - Customer Drw		sheet 1 of 5	



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END P1  
Mini SAS HD 4X  
ISOMETRIC VIEW



END P2  
Mini SAS  
ISOMETRIC VIEW

dr	Deborah Ingram	2011/03/17	projection	MM	size	A3	scale	1:1	
eng	Tom Feng	2015/08/12			ecn no	ELX-N-21649-1			
chr	-	-	product family	C&A	rel level	Released			
appr	Frank Mao	2015/08/12			title	Mini SAS HD 4X TO Mini SAS 2.1		dwg no	10117771
www.fci.com		cat. no.	-		Product - Customer Drw		sheet 2 of 5		

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10117771-XXXXLF	NON-HF	SEE SHT. 3
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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)

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appr	Frank Mao	2015/08/12	product family	C&A			
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KEY 3 & KEY SLOT 2, 4 & 6  
 ○ ◇ UNIVERSAL PORT

**END P2  
MINI SAS**

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



**PEND RADIUS  
TOP VIEW OF CONNECTOR**

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

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appr	Frank Mao	2015/08/12			product family	C&A		
		Mini SAS HD 4X TO Mini SAS 2.1		dwg no	10117771	rev	C	
www.fci.com		cat. no.	-	Product - Customer Drw		sheet 4 of 5		

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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

△ CABLE LABEL EXAMPLE:



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,

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 = ±25mm  
 "DIM L" = 1 METER TO 10 METER = 2% OF "DIM L"

5- LABEL DETAILS:

MANUFACTURER CODE OR NAME	COUNTRY ORIGIN
FCI P/N	<b>CE MARK</b>
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.

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.

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appr	Frank Mao	2015/08/12			product family	C&A		
		Mini SAS HD 4X TO Mini SAS 2.1		dwg no	10117771	rev	C	
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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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