

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

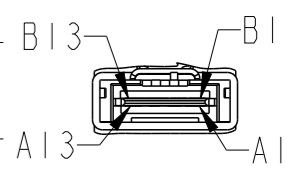


CABLE
SEE TABLE 2 & 3
NOTE 9 & 15

END P2
MINI SAS
CABLE CONNECTOR

END P1
MINI SAS HD 4X
CABLE CONNECTOR

HEAT SHRINK
TUBE (2X)



(10.45)
("DIM M")
SEE P/N TABLES

100mm ± 15mm

2X (13.0)

P1 LABEL
SEE NOTE 5

60mm ± 15mm

HEAT SHRINK
TUBE

P2 LABEL
SEE NOTE 5

CABLE TIE COLOR: BLACK
SEE NOTE 10

(25mm)

12.75

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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| 10117771-XXXXLF | NON-HF | SEE SHT. 3 |
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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 | | |

| 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 | Tom Feng | 2015/08/12 | | | |
| chr | - | - | | | |
| appr | Frank Mao | 2015/08/12 | product family | C&A | rel level Released |
|  | | 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 3 of 5 |



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| 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) | | CONDUCTOR # | P2 (MINI SAS) | |
| SIGNAL | PIN# | | 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 | 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 | | |
| | | 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 | | |

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

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 | CE MARK |
| 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.

| | | | | | | | | |
|-------------|----------------|------------|----------------|------------------------|----------------|---------------|-------|-----|
| 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 | | |
| www.fci.com | | cat. no. | - | Product - Customer Drw | sheet 5 of 5 | | | |

| | | | | | |
|--|--|--------|----------|-----|---|
| | Mini SAS HD 4X TO Mini SAS 2.1 TRAINED UNIVERSAL FINAL ASSEMBLY (6Gb/s) | dwg no | 10117771 | rev | C |
|--|--|--------|----------|-----|---|



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Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<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.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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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