



**DETAIL A**  
KEY SLOTS #2 & #4 SHOWN  
SCALE 2:1



|               |                                       |       |            |            |             |          |                                      |                        |              |          |                |
|---------------|---------------------------------------|-------|------------|------------|-------------|----------|--------------------------------------|------------------------|--------------|----------|----------------|
| spec ref      | ---                                   | dr    | Stu Stoner | 2008/02/05 | projection  | MM       | size                                 | A3                     | scale        | 1:1      |                |
| tolerance std | ---                                   | eng   | Tom Feng   | 2014/09/24 |             |          | ecn no                               | ELX-N-18883-1          | rel level    | Released |                |
| ---           | TOLERANCES UNLESS OTHERWISE SPECIFIED | chr   | -          | ---        |             |          |                                      |                        |              |          | product family |
| surface       | ✓                                     | appr  | Delhy Liu  | 2014/09/24 | www.fci.com | title    | FINAL CABLE ASSEMBLY-ALTERNATE CABLE | dwg no                 | 10084749     | rev      | H              |
| ---           | linear                                | 0.X   | ±0.3       |            |             | cat. no. | -                                    | Product - Customer Drw | sheet 1 of 6 |          |                |
|               |                                       | 0.XX  | ±0.10      |            |             |          |                                      |                        |              |          |                |
|               |                                       | 0.XXX | ±0.050     |            |             |          |                                      |                        |              |          |                |
|               | angular                               | 0°    | ±2°        |            |             |          |                                      |                        |              |          |                |

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KEY SLOT 2, 4 & 6  
 ○ ◇ UNIVERSIAL PORT



KEY SLOT 2 & 4  
 ◇ OUT PORT



KEY SLOT 4 & 6  
 ○ IN PORT

### MINI SAS 2.0

| PRODUCT NUMBER<br>SEE NOTE 4 | HUAWEI<br>PART NUMBER | DESCRIPTION           | GAUGE  | "DIM L"<br>LENGTH | END P1<br>KEY SLOT | END P2<br>KEY SLOT | IDENTIFIER   |
|------------------------------|-----------------------|-----------------------|--------|-------------------|--------------------|--------------------|--|
| I0084749-M060002LF           | /                     | X4 SAS CABLE ASSEMBLY | 24 AWG | 6M                | 4, 6               | 4, 6               | SUBTRACTIVE ROUTING (IN PORT), SAS                                 |
| I0084749-N040002LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 4M                | 4, 6               | 4, 6               |  |
| I0084749-N050002LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 5M                | 4, 6               | 4, 6               |  |
| I0084749-P010002LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 1M                | 4, 6               | 4, 6               |  |
| I0084749-P020002LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 2M                | 4, 6               | 4, 6               |  |
| I0084749-P030002LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 3M                | 4, 6               | 4, 6               |  |
| I0084749-M060003LF           | /                     | X4 SAS CABLE ASSEMBLY | 24 AWG | 6M                | 2, 4, 6            | 2, 4, 6            | UNIVERSAL KEY, SAS   |
| I0084749-N030003LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 3M                | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-N040003LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 4M                | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-N050003LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 5M                | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-P002503LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 0.25M             | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-P010003LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 1M                | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-P015003LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 1.5M              | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-P020003LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 2M                | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-P025003LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 2.5M              | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-P030003LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 3M                | 2, 4, 6            | 2, 4, 6            |  |
| I0084749-M060006LF           | /                     | X4 SAS CABLE ASSEMBLY | 24 AWG | 6M                | 2, 4               | 4, 6               | SAS, TABLE ROUTING (OUT PORT),<br>TO SUBTRACTIVE ROUTING (IN PORT) |
| I0084749-N010006LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 1M                | 2, 4               | 4, 6               |  |
| I0084749-N030006LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 3M                | 2, 4               | 4, 6               |  |
| I0084749-N040006LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 4M                | 2, 4               | 4, 6               |  |
| I0084749-N050006LF           | /                     | X4 SAS CABLE ASSEMBLY | 26 AWG | 5M                | 2, 4               | 4, 6               |  |
| I0084749-P010006LF           | 0405G005              | X4 SAS CABLE ASSEMBLY | 28 AWG | 1M                | 2, 4               | 4, 6               |  |
| I0084749-P020006LF           | /                     | X4 SAS CABLE ASSEMBLY | 28 AWG | 2M                | 2, 4               | 4, 6               |  |
| I0084749-P030006LF           | 0405G003              | X4 SAS CABLE ASSEMBLY | 28 AWG | 3M                | 2, 4               | 4, 6               |  |

### MINI SAS 2.0 KEYING OPTIONS

|               |                                       |             |            |                          |                                      |              |          |                 |           |                        |              |
|---------------|---------------------------------------|-------------|------------|--------------------------|--------------------------------------|--------------|----------|-----------------|-----------|------------------------|--------------|
| spec ref      | ---                                   | dr          | Stu Stoner | 2008/02/05               | projection                           | MM           | size     | A3              | scale     | 1:1                    |              |
| tolerance std | ---                                   | eng         | Tom Feng   | 2014/09/24               |                                      |              | ecn no   | ELX-N-18883-1   | rel level | Released               |              |
| ---           | TOLERANCES UNLESS OTHERWISE SPECIFIED | chr         | -          | -                        |                                      |              |          |                 |           |                        |              |
| surface       | ✓                                     | appr        | Delhy Liu  | 2014/09/24               | product family                       | MiniSAS/SATA | dwg no   |                 | 10084749  | rev                    | H            |
| linear        | 0.X ±0.3                              |             |            | title                    | FINAL CABLE ASSEMBLY-ALTERNATE CABLE |              | cat. no. |                 | -         | Product - Customer Drw | sheet 2 of 6 |
| linear        | 0.XX ±0.10                            | www.fci.com |            | Mini SAS 2.0/SATA (CRKT) |                                      | PDS: Rev :H  |          | STATUS:Released |           | Printed: Sep 24, 2014  |              |
| linear        | 0.XXX ±0.050                          |             |            |                          |                                      |              |          |                 |           |                        |              |
| angular       | 0° ±2°                                |             |            |                          |                                      |              |          |                 |           |                        |              |

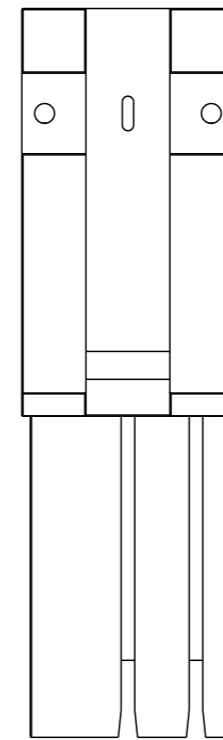
# SATA

| PRODUCT NUMBER<br>SEE NOTE 4 | DESCRIPTION            | GAUGE  | "DIM L"<br>LENGTH | END P1<br>KEY SLOT | END P2<br>KEY SLOT | IDENTIFIER    |
|------------------------------|------------------------|--------|-------------------|--------------------|--------------------|---------------|
| 10084749-M060004LF           | X4 SATA CABLE ASSEMBLY | 24 AWG | 6M                | 1,4                | 1,4                | X CABLE, SATA |
| 10084749-N020004LF           | X4 SATA CABLE ASSEMBLY | 26 AWG | 2M                | 1,4                | 1,4                |               |
| 10084749-N040004LF           | X4 SATA CABLE ASSEMBLY | 26 AWG | 4M                | 1,4                | 1,4                |               |
| 10084749-N050004LF           | X4 SATA CABLE ASSEMBLY | 26 AWG | 5M                | 1,4                | 1,4                |               |
| 10084749-P010004LF           | X4 SATA CABLE ASSEMBLY | 28 AWG | 1M                | 1,4                | 1,4                |               |
| 10084749-P030004LF           | X4 SATA CABLE ASSEMBLY | 28 AWG | 3M                | 1,4                | 1,4                |               |
| 10084749-M060005LF           | X4 SATA CABLE ASSEMBLY | 24 AWG | 6M                | 7                  | 7                  | M CABLE, SATA |
| 10084749-N020005LF           | X4 SATA CABLE ASSEMBLY | 26 AWG | 2M                | 7                  | 7                  |               |
| 10084749-N040005LF           | X4 SATA CABLE ASSEMBLY | 26 AWG | 4M                | 7                  | 7                  |               |
| 10084749-N050005LF           | X4 SATA CABLE ASSEMBLY | 26 AWG | 5M                | 7                  | 7                  |               |
| 10084749-P010005LF           | X4 SATA CABLE ASSEMBLY | 28 AWG | 1M                | 7                  | 7                  |               |
| 10084749-P030005LF           | X4 SATA CABLE ASSEMBLY | 28 AWG | 3M                | 7                  | 7                  |               |

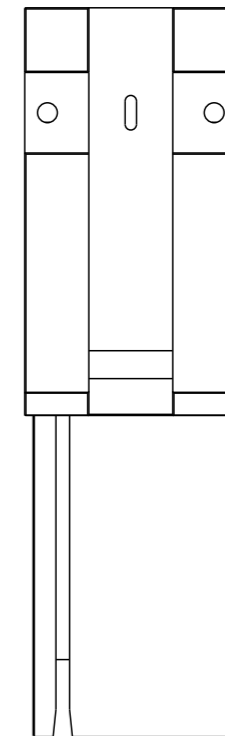


**BEND RADIUS  
(24 AWG SHOWN)**

| CABLE  | DIM "A" | DIM "B"   |
|--------|---------|-----------|
| 24 AWG | (R46.9) | (Ø 9.5mm) |
| 26 AWG | (R41.7) | (Ø 8.3mm) |
| 28 AWG | (R37.7) | (Ø 7.6mm) |



KEY SLOT 1 & 4  
X CABLE, SATA



KEY SLOT 7  
M CABLE, SATA

## SATA KEYING OPTIONS

|               |                                       |       |            |             |                          |              |                                      |               |                                   |              |   |
|---------------|---------------------------------------|-------|------------|-------------|--------------------------|--------------|--------------------------------------|---------------|-----------------------------------|--------------|---|
| spec ref      | ---                                   | dr    | Stu Stoner | 2008/02/05  | projection               | MM           | size                                 | A3            | scale                             | 1:1          |   |
| tolerance std | ---                                   | eng   | Tom Feng   | 2014/09/24  |                          |              | ecn no                               | ELX-N-18883-1 | rel level                         | Released     |   |
| ---           | TOLERANCES UNLESS OTHERWISE SPECIFIED | chr   | -          | -           |                          |              |                                      |               |                                   |              |   |
| surface       | ✓                                     | appr  | Delhly Liu | 2014/09/24  | product family           | MiniSAS/SATA | dwg no                               |               | 10084749                          | rev          | H |
| ---           | linear                                | 0.X   | ±0.3       |             | title                    |              | FINAL CABLE ASSEMBLY-ALTERNATE CABLE |               | cat. no. - Product - Customer Drw | sheet 3 of 6 |   |
|               |                                       | 0.XX  | ±0.10      |             | Mini SAS 2.0/SATA (CRKT) |              |                                      |               |                                   |              |   |
|               |                                       | 0.XXX | ±0.050     |             |                          |              |                                      |               |                                   |              |   |
|               | angular                               | 0°    | ±2°        | www.fci.com |                          |              |                                      |               |                                   |              |   |

A

B

C

D

A

B

C

D

WIRING LIST SEE NOTE 7



|    |       |     |     |     |       |
|----|-------|-----|-----|-----|-------|
|    | GND   | A1  | --- | B1  | GND   |
|    | Rx 0+ | A2  | ←   | B2  | Tx 0+ |
|    | Rx 0- | A3  | ←   | B3  | Tx 0- |
|    | GND   | A4  | --- | B4  | GND   |
|    | Rx 1+ | A5  | ←   | B5  | Tx 1+ |
|    | Rx 1- | A6  | ←   | B6  | Tx 1- |
|    | GND   | A7  | --- | B7  | GND   |
|    | Rx 2+ | A8  | ←   | B8  | Tx 2+ |
|    | Rx 2- | A9  | ←   | B9  | Tx 2- |
|    | GND   | A10 | --- | B10 | GND   |
|    | Rx 3+ | A11 | ←   | B11 | Tx 3+ |
|    | Rx 3- | A12 | ←   | B12 | Tx 3- |
|    | GND   | A13 | --- | B13 | GND   |
| P1 | GND   | B1  | --- | A1  | GND   |
|    | Tx 0+ | B2  | →   | A2  | Rx 0+ |
|    | Tx 0- | B3  | →   | A3  | Rx 0- |
|    | GND   | B4  | --- | A4  | GND   |
|    | Tx 1+ | B5  | →   | A5  | Rx 1+ |
|    | Tx 1- | B6  | →   | A6  | Rx 1- |
|    | GND   | B7  | --- | A7  | GND   |
|    | Tx 2+ | B8  | →   | A8  | Rx 2+ |
|    | Tx 2- | B9  | →   | A9  | Rx 2- |
|    | GND   | B10 | --- | A10 | GND   |
|    | Tx 3+ | B11 | →   | A11 | Rx 3+ |
|    | Tx 3- | B12 | →   | A12 | Rx 3- |
|    | GND   | B13 | --- | A13 | GND   |
|    |       |     |     |     | P2    |



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|---------------|---------------------------------------|-------------|------------|--|------------------------|-----------------|--------------|---------------|-----------|----------|
| spec ref      | ---                                   | dr          | Stu Stoner | 2008/02/05   | projection             | MM              | size         | A3            | scale     | 1:1      |
| tolerance std | ---                                   | eng         | Tom Feng   | 2014/09/24   |                        |                 | ecn no       | ELX-N-18883-1 | rel level | Released |
| ---           | TOLERANCES UNLESS OTHERWISE SPECIFIED | chr         | -          | -  |                        |                 |              |               |           |          |
| surface       | ✓                                     | appr        | Delhy Liu  | 2014/09/24   | product family         | MiniSAS/SATA    |              |               |           |          |
| linear        | 0.X ±0.3                              |             |            | title FINAL CABLE ASSEMBLY-ALTERNATE CABLE<br>Mini SAS 2.0/SATA (CRKT) |                        | dwg no 10084749 |              | rev H         |           |          |
|               | 0.XX ±0.10                            |             |            |  |                        |                 |              |               |           |          |
|               | 0.XXX ±0.050                          |             |            |  |                        |                 |              |               |           |          |
| angular       | 0° ±2°                                | www.fci.com | cat. no.   | -  | Product - Customer Drw |                 | sheet 4 of 6 |               |           |          |

NOTES:

- ① - MATERIAL:  
 BACK SHELLS: ZINC DIECAST  
 PULL TAB: MOLDED THERMOPLASTIC  
 LATCH: STAINLESS STEEL  
 JET MELT: POLYAMIDE POLYMER
- 2 - ELECTRICAL PERFORMANCE PER CURRENT REVISION  
 OF SERIAL ATA, T10/I760-D (SAS-2 REQUIREMENTS).
- ③ - THIS PRODUCT MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN  
 ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2002/95/EC)

4 - PART NUMBER DESCRIPTION

10084749 - X XX XX XX LF



- ⑤ - UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE IS TO BE:  
 < 1 METER =  $\pm 25.0\text{mm}$   
 > 1 METER TO 6 METERS =  $\pm 2\%$  OF "DIM L"

|               |                                       |       |               |                          |             |                                      |                |               |           |          |
|---------------|---------------------------------------|-------|---------------|--------------------------|-------------|--------------------------------------|----------------|---------------|-----------|----------|
| spec ref      | ---                                   | dr    | Stu Stoner    | 2008/02/05               | projection  | MM                                   | size           | A3            | scale     | 1:1      |
| tolerance std | ---                                   | eng   | Tom Feng      | 2014/09/24               |             | ← →                                  | ecn no         | ELX-N-18883-1 |           |          |
| ---           | TOLERANCES UNLESS OTHERWISE SPECIFIED | chr   | -             | -                        |             |                                      | product family | MiniSAS/SATA  | rel level | Released |
| surface       | ✓                                     | appr  | Delhy Liu     | 2014/09/24               | www.fci.com |                                      | dwg no         | 10084749      | rev       | H        |
| ---           | linear                                | 0.X   | $\pm 0.3$     | title                    |             | FINAL CABLE ASSEMBLY-ALTERNATE CABLE |                |               |           |          |
|               |                                       | 0.XX  | $\pm 0.10$    | Mini SAS 2.0/SATA (CRKT) |             | cat. no.                             |                | -             |           |          |
|               |                                       | 0.XXX | $\pm 0.050$   | Product - Customer Drw   |             | sheet 5 of 6                         |                |               |           |          |
|               | angular                               | 0°    | $\pm 2^\circ$ | STATUS:Released          |             | Printed: Sep 24, 2014                |                |               |           |          |



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NOTES CONTINUED:

- ⑥ - UNLESS OTHERWISE SPECIFIED LABEL POSITION IS TO BE 100mm FROM REAR OF CONNECTOR.  
LABEL DETAILS:



FONT SHALL BE CLEARLY VISIBLE AND BLACK IN COLOR.

- ⑦ - ALL CABLE ASSEMBLIES SHALL BE 100% TESTED FOR CONTINUITY AS DEFINED IN WIRING LIST.
- ⑧ - UNLESS OTHERWISE SPECIFIED ALL CABLE ASSEMBLIES SHALL BE 100% HI-POT TESTED BY APPLYING 300V DC FOR A MINIMUM OF 10ms, UNLESS ACTIVE COMPONENTS ARE USED IN THIS ASSEMBLY.
- 9 - OTHER TESTING PERFORMED AS REQUIRED BY PRODUCT SPECIFICATION: GS-12-548.
- 10 - PACKAGING OF LEAD FREE PRODUCTS MEETS LABELING AND PACKAGING PER SPECIFICATION GS-14-920. PACKAGE CABLE ASSEMBLIES PER GS-14-1272. ADD DUST COVER ON MINI-SAS CONNECTOR WHEN PACKAGE FOR SHIPMENT NEED STICK BELOW LABEL ON PE BAG.



11. THIS DIMENSION IS A FINISHED PRODUCT LENGTH.

12. 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.

|               |                                       |  |            |             |            |    |   |                    |              |           |
|---------------|---------------------------------------|--|------------|-------------|------------|----|---|--------------------|--------------|-----------|
| spec ref      | ---                                   | dr                                     | Stu Stoner | 2008/02/05  | projection | MM | size  | A3                 | scale        | 1:1       |
| tolerance std | ---                                   | eng                                    | Tom Feng   | 2014/09/24  |            |    | ecn no  | ELX-N-18883-1      |              |           |
| ---           | TOLERANCES UNLESS OTHERWISE SPECIFIED | chr                                    | -          | -           |            |    |   | product family     | MiniSAS/SATA | rel level |
| surface       | ✓                                     | appr                                   | Delhy Liu  | 2014/09/24  |            |    | title<br>FINAL CABLE ASSEMBLY-ALTERNATE CABLE<br>Mini SAS 2.0/SATA (CRKT) | dwg no<br>10084749 | rev<br>H     |           |
| ---           | linear                                | 0.X ±0.3<br>0.XX ±0.10<br>0.XXX ±0.050 |            | www.fci.com | cat. no.   | -  | Product - Customer Drw  | sheet 6 of 6       |              |           |
|               | angular                               | 0° ±2°                                 |            |             |            |    |   |                    |              |           |



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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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