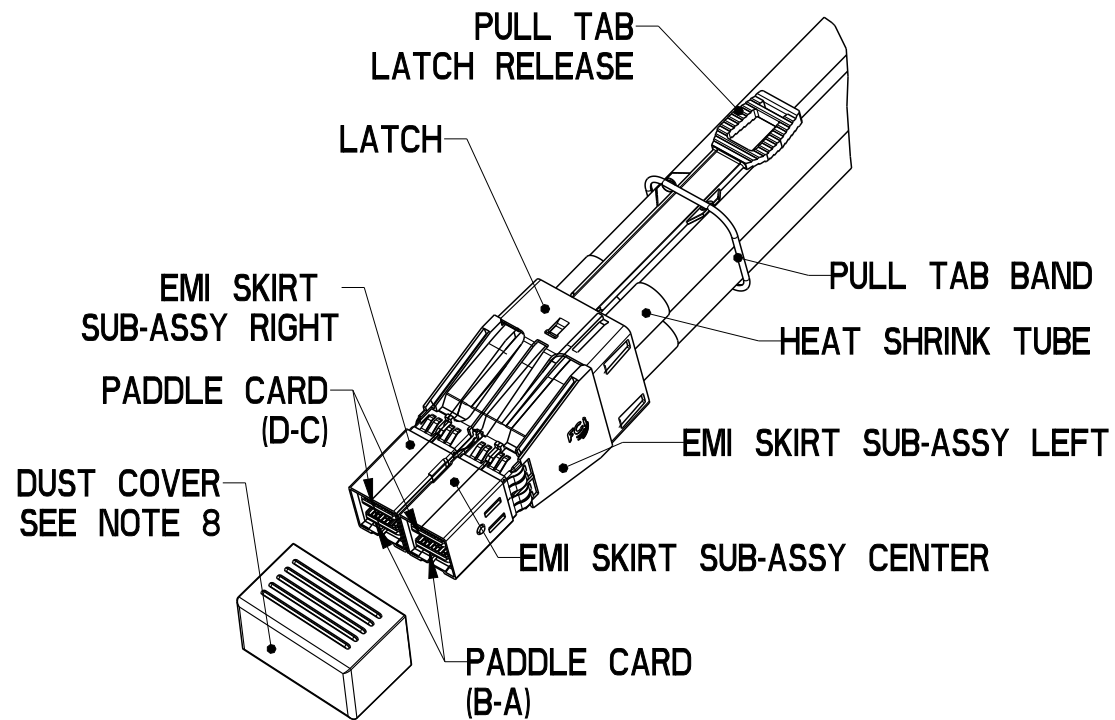
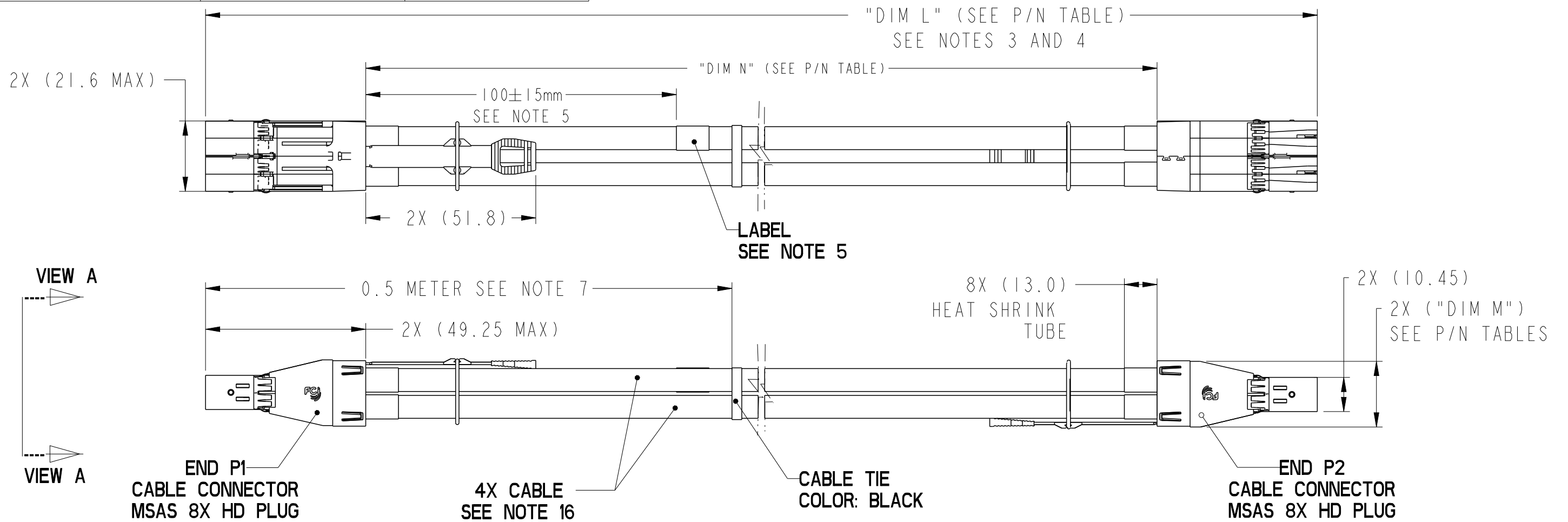
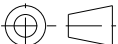


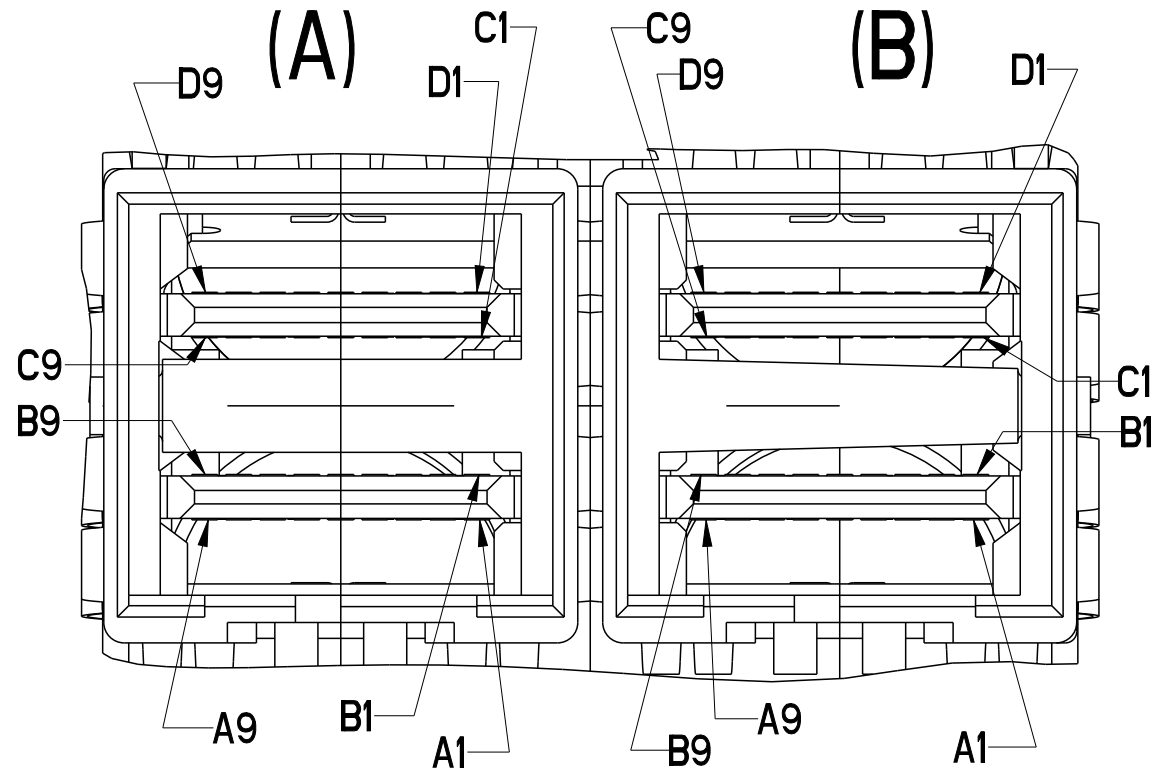
| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10117950-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10117950-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 3 |



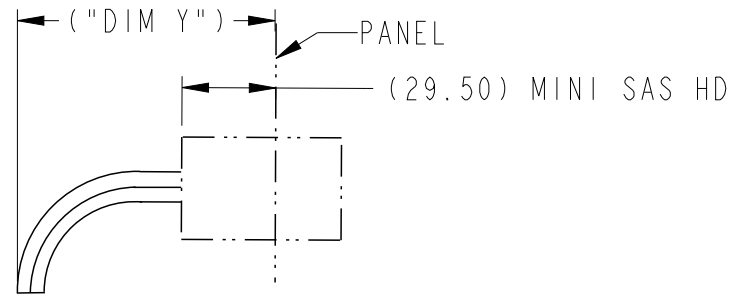
ISOMETRIC VIEW  
MINI SAS 8X HD  
2X

|                 |                |                               |                                                                                                     |                                                                                             |        |               |              |          |  |
|-----------------|----------------|-------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------|---------------|--------------|----------|--|
| dr              | Deborah Ingram | 2011/11/16                    | projection<br> | mm<br> | size   | A3            | scale        | 4:5      |  |
| eng             | Tom Feng       | 2016/06/15                    |                                                                                                     |                                                                                             | ecn no | ELX-N-24288-1 |              |          |  |
| chr             | -              | -                             |                                                                                                     |                                                                                             |        |               |              |          |  |
| appr            | Michael Zhou   | 2016/09/22                    | product family                                                                                      |                                                                                             | C&A    | rel level     |              | Released |  |
| Amphenol<br>FCi | title          | FINAL ASSEMBLY (PASSIVE)      |                                                                                                     |                                                                                             | dwg no | 10117950      |              | rev      |  |
|                 |                | MSAS HD 8X ASSEMBLY (12 Gbps) |                                                                                                     |                                                                                             |        |               |              | E        |  |
| www.fci.com     | cat. no.       |                               | -                                                                                                   | Product - Customer Drw                                                                      |        |               | sheet 1 of 4 |          |  |

| PRODUCT NUMBER   | DESCRIPTION      |
|------------------|------------------|
| 10117950-XXXXLF  | NON-HF           |
| 10117950-XXXXHLF | HALOGEN FREE (H) |



VIEW A (END P1)  
SCALE 6:1



BEND RADIUS  
TOP VIEW OF CONNECTOR

| △ MINI SAS HD<br>MINIMUM CABLE BEND TABLE |                 |                       |
|-------------------------------------------|-----------------|-----------------------|
| CABLE                                     | ("DIM Y")<br>HF | ("DIM Y")<br>(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:

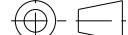
|  |                                         |
|--|-----------------------------------------|
|  | HIGH-SPEED SERIAL<br>DIFFERENTIAL PAIRS |
|  | SIGNAL RETURN                           |
|  | POWER AND MANAGEMENT<br>INTERFACE       |

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 | 2011/11/16                    | projection<br> | mm<br> | size      | A3            | scale        | 1:1 |
| eng                     | Tom Feng       | 2016/06/15                    |                                                                                                     |                                                                                             | ecn no    | ELX-N-24288-1 |              |     |
| chr                     | -              | -                             |                                                                                                     |                                                                                             | rel level | Released      |              |     |
| appr                    | Michael Zhou   | 2016/09/22                    | product family                                                                                      |                                                                                             | C&A       |               |              |     |
| <b>Amphenol<br/>FCi</b> | title          | FINAL ASSEMBLY (PASSIVE)      |                                                                                                     |                                                                                             | dwg no    | 10117950      |              | rev |
|                         |                | MSAS HD 8X ASSEMBLY (12 Gbps) |                                                                                                     |                                                                                             |           |               |              |     |
| www.fci.com             | cat. no.       | -                             | Product - Customer Drw                                                                              |                                                                                             |           |               | sheet 2 of 4 |     |

Amphenol  
FCi

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A

B

C

D



| △ PART NUMBER<br>(NON-HALOGEN FREE)<br>SEE NOTE 12 AND 16 | LENGTH "DIM L"<br>(Meters) | LENGTH "DIM N"<br>(Meters) | ("DIM M")<br>(mm) | AWG |
|-----------------------------------------------------------|----------------------------|----------------------------|-------------------|-----|
| 10117950-2004LF                                           | (0.43)                     | 0.33                       | 17.3              | 30  |
| 10117950-2005LF                                           | 0.5                        |                            | 17.3              | 30  |
| 10117950-2010LF                                           | 1.0                        |                            | 17.3              | 30  |
| 10117950-2015LF                                           | 1.5                        |                            | 17.3              | 30  |
| 10117950-2020LF                                           | 2.0                        |                            | 17.3              | 30  |
| 10117950-3010LF                                           | 1.0                        |                            | 17.3              | 28  |
| 10117950-3015LF                                           | 1.5                        |                            | 17.3              | 28  |
| 10117950-3020LF                                           | 2.0                        |                            | 17.3              | 28  |
| 10117950-3025LF                                           | 2.5                        |                            | 17.3              | 28  |
| 10117950-3030LF                                           | 3.0                        |                            | 17.3              | 28  |
| 10117950-4010LF                                           | 1.0                        |                            | 20.1              | 26  |
| 10117950-4015LF                                           | 1.5                        |                            | 20.1              | 26  |
| 10117950-4020LF                                           | 2.0                        |                            | 20.1              | 26  |
| 10117950-4025LF                                           | 2.5                        |                            | 20.1              | 26  |
| 10117950-4030LF                                           | 3.0                        |                            | 20.1              | 26  |
| 10117950-4035LF                                           | 3.5                        |                            | 20.1              | 26  |
| 10117950-4040LF                                           | 4.0                        |                            | 20.1              | 26  |
| 10117950-4045LF                                           | 4.5                        |                            | 20.1              | 26  |
| 10117950-4050LF                                           | 5.0                        |                            | 20.1              | 26  |
| 10117950-4055LF                                           | 5.5                        |                            | 20.1              | 26  |
| 10117950-4060LF                                           | 6.0                        |                            | 20.1              | 26  |
| 10117950-5010LF                                           | 1.0                        |                            | 20.1              | 24  |
| 10117950-5015LF                                           | 1.5                        |                            | 20.1              | 24  |
| 10117950-5020LF                                           | 2.0                        |                            | 20.1              | 24  |
| 10117950-5025LF                                           | 2.5                        |                            | 20.1              | 24  |
| 10117950-5030LF                                           | 3.0                        |                            | 20.1              | 24  |
| 10117950-5035LF                                           | 3.5                        |                            | 20.1              | 24  |
| 10117950-5040LF                                           | 4.0                        |                            | 20.1              | 24  |
| 10117950-5045LF                                           | 4.5                        |                            | 20.1              | 24  |
| 10117950-5050LF                                           | 5.0                        |                            | 20.1              | 24  |
| 10117950-5055LF                                           | 5.5                        |                            | 20.1              | 24  |
| 10117950-5060LF                                           | 6.0                        |                            | 20.1              | 24  |
| 10117950-5065LF                                           | 6.5                        |                            | 20.1              | 24  |
| 10117950-5070LF                                           | 7.0                        |                            | 20.1              | 24  |
| 10117950-5075LF                                           | 7.5                        |                            | 20.1              | 24  |
| 10117950-5080LF                                           | 8.0                        |                            | 20.1              | 24  |

| △ PART NUMBER<br>(HALOGEN FREE)<br>SEE NOTE 11 AND 16                            | LENGTH "DIM L"<br>(Meters) | LENGTH "DIM N"<br>(Meters) | ("DIM M")<br>(mm) | AWG |
|----------------------------------------------------------------------------------|----------------------------|----------------------------|-------------------|-----|
| 10117950-2004HLF                                                                 | (0.43)                     | 0.33                       | 17.3              | 30  |
| 10117950-2005HLF                                                                 | 0.5                        |                            | 17.3              | 30  |
| 10117950-2010HLF                                                                 | 1.0                        |                            | 17.3              | 30  |
| 10117950-2015HLF                                                                 | 1.5                        |                            | 17.3              | 30  |
| 10117950-2020HLF                                                                 | 2.0                        |                            | 17.3              | 30  |
| 10117950-3010HLF                                                                 | 1.0                        |                            | 17.3              | 28  |
| 10117950-3015HLF                                                                 | 1.5                        |                            | 17.3              | 28  |
| 10117950-3020HLF                                                                 | 2.0                        |                            | 17.3              | 28  |
| 10117950-3025HLF                                                                 | 2.5                        |                            | 17.3              | 28  |
| 10117950-3030HLF                                                                 | 3.0                        |                            | 17.3              | 28  |
| 10117950-4010HLF                                                                 | 1.0                        |                            | 20.1              | 26  |
| 10117950-4015HLF                                                                 | 1.5                        |                            | 20.1              | 26  |
| 10117950-4020HLF                                                                 | 2.0                        |                            | 20.1              | 26  |
| 10117950-4025HLF                                                                 | 2.5                        |                            | 20.1              | 26  |
| 10117950-4030HLF                                                                 | 3.0                        |                            | 20.1              | 26  |
| 10117950-4035HLF                                                                 | 3.5                        |                            | 20.1              | 26  |
| 10117950-4040HLF                                                                 | 4.0                        |                            | 20.1              | 26  |
| 10117950-4045HLF                                                                 | 4.5                        |                            | 20.1              | 26  |
| 10117950-4050HLF                                                                 | 5.0                        |                            | 20.1              | 26  |
| 10117950-4055HLF                                                                 | 5.5                        |                            | 20.1              | 26  |
| 10117950-4060HLF                                                                 | 6.0                        |                            | 20.1              | 26  |
| 10117950-5010HLF                                                                 | 1.0                        |                            | 20.1              | 24  |
| 10117950-5015HLF                                                                 | 1.5                        |                            | 20.1              | 24  |
| 10117950-5020HLF                                                                 | 2.0                        |                            | 20.1              | 24  |
| 10117950-5025HLF                                                                 | 2.5                        |                            | 20.1              | 24  |
| 10117950-5030HLF                                                                 | 3.0                        |                            | 20.1              | 24  |
| 10117950-5035HLF                                                                 | 3.5                        |                            | 20.1              | 24  |
| 10117950-5040HLF                                                                 | 4.0                        |                            | 20.1              | 24  |
| 10117950-5045HLF                                                                 | 4.5                        |                            | 20.1              | 24  |
| 10117950-5050HLF                                                                 | 5.0                        |                            | 20.1              | 24  |
| 10117950-5055HLF                                                                 | 5.5                        |                            | 20.1              | 24  |
| 10117950-5060HLF                                                                 | 6.0                        |                            | 20.1              | 24  |
| 10117950-5065HLF                                                                 | 6.5                        |                            | 20.1              | 24  |
| 10117950-5070HLF                                                                 | 7.0                        |                            | 20.1              | 24  |
| 10117950-5075HLF                                                                 | 7.5                        |                            | 20.1              | 24  |
| 10117950-5080HLF                                                                 | 8.0                        |                            | 20.1              | 24  |
| 10117950-5090HLF<br>ONLY USE EXT MSHD INTERFACE<br>DON'T MEET SAS3.0 APPLICATION | 9.0                        |                            | 20.1              | 24  |
| 10117950-5100HLF<br>ONLY USE EXT MSHD INTERFACE<br>DON'T MEET SAS3.0 APPLICATION | 10.0                       |                            | 20.1              | 24  |

A

B

C

D

|                     |                |            |                                   |                           |        |               |              |     |     |  |
|---------------------|----------------|------------|-----------------------------------|---------------------------|--------|---------------|--------------|-----|-----|--|
| dr                  | Deborah Ingram | 2011/11/16 | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size   | A3            | scale        | 1:1 |     |  |
| eng                 | Tom Feng       | 2016/06/15 |                                   |                           | ecn no | ELX-N-24288-1 |              |     |     |  |
| chr                 | -              | -          |                                   |                           |        |               |              |     |     |  |
| appr                | Michael Zhou   | 2016/09/22 | product family                    |                           | C&A    | rel level     | Released     |     |     |  |
| <b>Amphenol FCI</b> |                | title      | FINAL ASSEMBLY (PASSIVE)          |                           |        | dwg no        | 10117950     |     | rev |  |
|                     |                |            | MSAS HD 8X ASSEMBLY (12 Gbps)     |                           |        |               |              |     | E   |  |
| www.fci.com         |                | cat. no.   | -                                 | Product - Customer Drw    |        |               | sheet 3 of 4 |     |     |  |

| PRODUCT NUMBER   | DESCRIPTION      |
|------------------|------------------|
| 10117950-XXXXLF  | NON-HF           |
| 10117950-XXXXHLF | HALOGEN FREE (H) |

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)

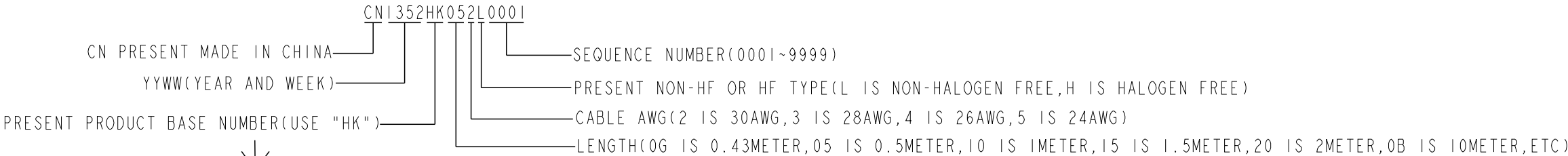
3. THIS DIMENSION IS A FINISHED PRODUCT LENGTH.
4. UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE IS TO BE:  
"DIM L" < 1 METER =  $\pm 25\text{mm}$   
"DIM L" 1 METER TO 4 METERS =  $\pm 2\%$  OF "DIM L"  
"DIM L" > 4 METERS =  $+0.00/-4\%$  OF "DIM L"

5. LABEL DETAILS:

|  |                               |                |
|--|-------------------------------|----------------|
|  | MANUFACTURER CODE OR NAME     | COUNTRY ORIGIN |
|  | FCI P/N                       |                |
|  | FCI CUSTOMER DRAWING REVISION |                |
|  | FCI SERIAL NUMBER             |                |
|  | BAR CODE OF 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 |
| 10117950-2005LF  |       |
| REV.E            |       |
| CN1352HK052L0001 |       |
|                  |       |

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 3.0 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 | 2011/11/16                    | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size                     | A3            | scale  | 1:2          |     |   |
| eng          | Tom Feng       | 2016/06/15                    |                                   |                           | ec n no                  | ELX-N-24288-1 |        |              |     |   |
| chr          | -              | -                             |                                   |                           | rel level                | Released      |        |              |     |   |
| appr         | Michael Zhou   | 2016/09/22                    | product family                    |                           | C&A                      |               |        |              |     |   |
| Amphenol FCI |                | title                         |                                   |                           | FINAL ASSEMBLY (PASSIVE) |               | dwg no | 10117950     | rev | E |
|              |                | MSAS HD 8X ASSEMBLY (12 Gbps) |                                   |                           |                          |               |        |              |     |   |
| www.fci.com  |                | cat. no.                      |                                   | -                         | Product - Customer Drw   |               |        | sheet 4 of 4 |     |   |



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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**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

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