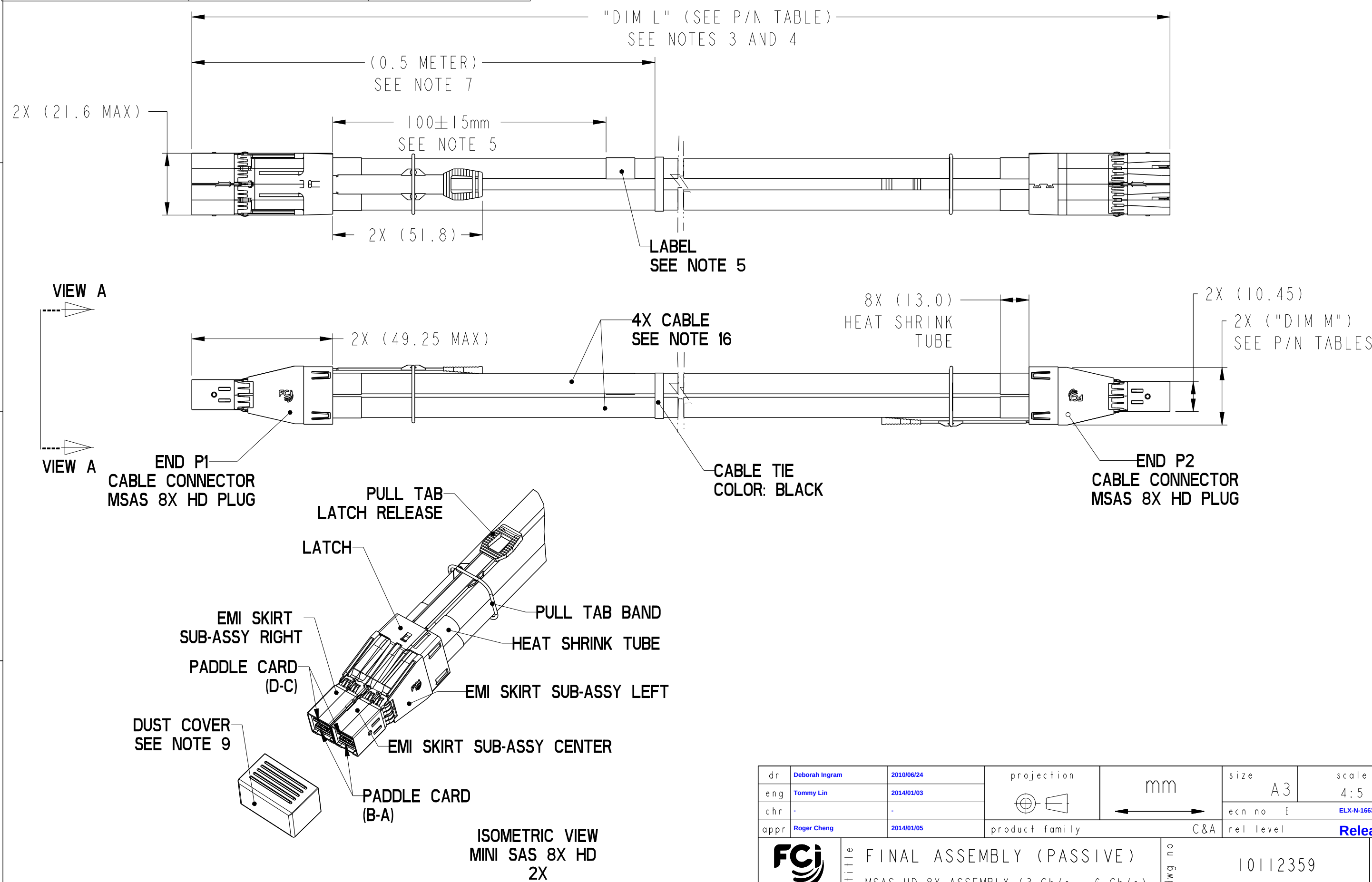


| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10112359-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10112359-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 4 |



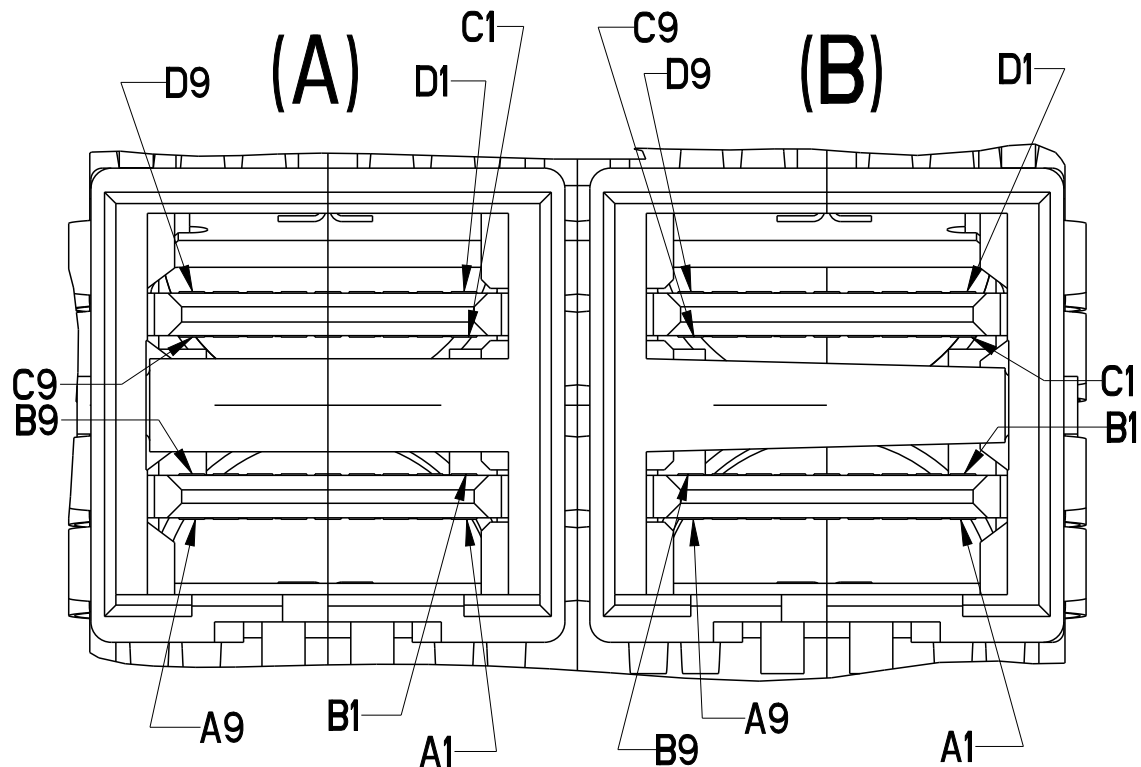
|             |                |            |                        |              |           |                                                                   |        |               |
|-------------|----------------|------------|------------------------|--------------|-----------|-------------------------------------------------------------------|--------|---------------|
| dr          | Deborah Ingram | 2010/06/24 | projection             | mm           | size      | A3                                                                | scale  | 4:5           |
| eng         | Tommy Lin      | 2014/01/03 |                        |              | ecn no    | E                                                                 |        | ELX-N-16637-1 |
| chr         | -              | -          |                        |              | rel level |                                                                   |        | Released      |
| appr        | Roger Cheng    | 2014/01/05 | product family         | C&A          |           |                                                                   |        |               |
| www.fci.com | cat. no.       | -          | Product - Customer Drw | sheet 1 of 5 | title     | FINAL ASSEMBLY (PASSIVE)<br>MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s) | dwg no | 10112359      |
|             |                |            |                        |              | rev       | B                                                                 |        |               |



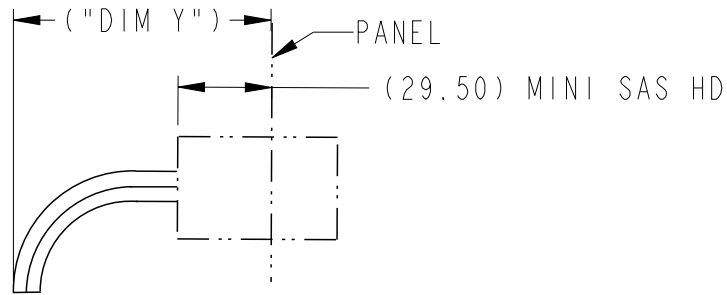
Copyright FCI.

| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10112359-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10112359-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 4 |

P1-(A) TO P2-(A)  
P1-(B) TO P2-(B)



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                  |

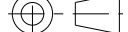
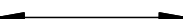
LENGEND:

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

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   |  |

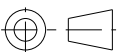
SHIELD----->SHIELD

|                                                                                       |                |            |                                                                                                     |                                                                                             |                                                                   |           |               |          |  |              |     |   |
|---------------------------------------------------------------------------------------|----------------|------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------|---------------|----------|--|--------------|-----|---|
| dr                                                                                    | Deborah Ingram | 2010/06/24 | projection<br> | mm<br> | size                                                              | A3        | scale         | 1:1      |  |              |     |   |
| eng                                                                                   | Tommy Lin      | 2014/01/03 |                                                                                                     |                                                                                             | ecn no                                                            | E         | ELX-N-16637-1 |          |  |              |     |   |
| chr                                                                                   | -              | -          |                                                                                                     |                                                                                             |                                                                   |           |               |          |  |              |     |   |
| appr                                                                                  | Roger Cheng    | 2014/01/05 | product family                                                                                      |                                                                                             | C&A                                                               | rel level |               | Released |  |              |     |   |
|  |                | title      |                                                                                                     |                                                                                             | FINAL ASSEMBLY (PASSIVE)<br>MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s) |           |               | dwg no   |  | 10112359     | rev | B |
| www.fci.com                                                                           |                | cat. no.   |                                                                                                     | -                                                                                           | Product - Customer Drw                                            |           |               |          |  | sheet 2 of 5 |     |   |

| PART NUMBER<br>(NON-HALOGEN FREE)<br>SEE NOTE 12 AND 16 | LENGTH "DIM L" (Meters) | ("DIM M")<br>(mm) | AWG |
|---------------------------------------------------------|-------------------------|-------------------|-----|
|                                                         |                         |                   |     |
| 10112359-2005LF                                         | 0.5                     | 17.3              | 30  |
| 10112359-2010LF                                         | 1.0                     | 17.3              | 30  |
| 10112359-2015LF                                         | 1.5                     | 17.3              | 30  |
| 10112359-2020LF                                         | 2.0                     | 17.3              | 30  |
| 10112359-2025LF                                         | 2.5                     | 17.3              | 30  |
| 10112359-2030LF                                         | 3.0                     | 17.3              | 30  |
| 10112359-3005LF                                         | 0.5                     | 17.3              | 28  |
| 10112359-3010LF                                         | 1.0                     | 17.3              | 28  |
| 10112359-3015LF                                         | 1.5                     | 17.3              | 28  |
| 10112359-3020LF                                         | 2.0                     | 17.3              | 28  |
| 10112359-3025LF                                         | 2.5                     | 17.3              | 28  |
| 10112359-3030LF                                         | 3.0                     | 17.3              | 28  |
| 10112359-3035LF                                         | 3.5                     | 17.3              | 28  |
| 10112359-3040LF                                         | 4.0                     | 17.3              | 28  |
| 10112359-3045LF                                         | 4.5                     | 17.3              | 28  |
| 10112359-3050LF                                         | 5.0                     | 17.3              | 28  |
| 10112359-4005LF                                         | 0.5                     | 20.1              | 26  |
| 10112359-4010LF                                         | 1.0                     | 20.1              | 26  |
| 10112359-4015LF                                         | 1.5                     | 20.1              | 26  |
| 10112359-4020LF                                         | 2.0                     | 20.1              | 26  |
| 10112359-4025LF                                         | 2.5                     | 20.1              | 26  |
| 10112359-4030LF                                         | 3.0                     | 20.1              | 26  |
| 10112359-4035LF                                         | 3.5                     | 20.1              | 26  |
| 10112359-4040LF                                         | 4.0                     | 20.1              | 26  |
| 10112359-4045LF                                         | 4.5                     | 20.1              | 26  |
| 10112359-4050LF                                         | 5.0                     | 20.1              | 26  |
| 10112359-4055LF                                         | 5.5                     | 20.1              | 26  |
| 10112359-4060LF                                         | 6.0                     | 20.1              | 26  |
| 10112359-4065LF                                         | 6.5                     | 20.1              | 26  |
| 10112359-4070LF                                         | 7.0                     | 20.1              | 26  |

| PART NUMBER<br>(NON-HALOGEN FREE)<br>SEE NOTE 12 AND 16 | LENGTH "DIM L" (Meters) | ("DIM M")<br>(mm) | AWG |
|---------------------------------------------------------|-------------------------|-------------------|-----|
|                                                         |                         |                   |     |
| 10112359-5005LF                                         | 0.5                     | 20.1              | 24  |
| 10112359-5010LF                                         | 1.0                     | 20.1              | 24  |
| 10112359-5015LF                                         | 1.5                     | 20.1              | 24  |
| 10112359-5020LF                                         | 2.0                     | 20.1              | 24  |
| 10112359-5025LF                                         | 2.5                     | 20.1              | 24  |
| 10112359-5030LF                                         | 3.0                     | 20.1              | 24  |
| 10112359-5035LF                                         | 3.5                     | 20.1              | 24  |
| 10112359-5040LF                                         | 4.0                     | 20.1              | 24  |
| 10112359-5045LF                                         | 4.5                     | 20.1              | 24  |
| 10112359-5050LF                                         | 5.0                     | 20.1              | 24  |
| 10112359-5055LF                                         | 5.5                     | 20.1              | 24  |
| 10112359-5060LF                                         | 6.0                     | 20.1              | 24  |
| 10112359-5065LF                                         | 6.5                     | 20.1              | 24  |
| 10112359-5070LF                                         | 7.0                     | 20.1              | 24  |
| 10112359-5075LF                                         | 7.5                     | 20.1              | 24  |
| 10112359-5080LF                                         | 8.0                     | 20.1              | 24  |
| 10112359-5085LF                                         | 8.5                     | 20.1              | 24  |
| 10112359-5090LF                                         | 9.0                     | 20.1              | 24  |
| 10112359-5095LF                                         | 9.5                     | 20.1              | 24  |
| 10112359-5100LF                                         | 10.0                    | 20.1              | 24  |

NON-HALOGEN FREE CABLE ASSEMBLY PART NUMBERS

|                                                                                                  |                |                                       |                                                                                                                        |                                                                                                                |                          |           |               |                        |          |     |              |  |
|--------------------------------------------------------------------------------------------------|----------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------|-----------|---------------|------------------------|----------|-----|--------------|--|
| dr                                                                                               | Deborah Ingram | 2010/06/24                            | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size                     | A3        | scale         | 1:1                    |          |     |              |  |
| eng                                                                                              | Tommy Lin      | 2014/01/03                            |                                                                                                                        |                                                                                                                | ecn no                   | E         | ELX-N-16637-1 |                        |          |     |              |  |
| chr                                                                                              | -              | -                                     |                                                                                                                        |                                                                                                                |                          |           |               |                        |          |     |              |  |
| appr                                                                                             | Roger Cheng    | 2014/01/05                            | product family                                                                                                         |                                                                                                                | C&A                      | rel level |               |                        | Released |     |              |  |
| <div></div> |                |                                       | title                                                                                                                  |                                                                                                                | FINAL ASSEMBLY (PASSIVE) |           |               | dwg no                 | 10112359 | rev | B            |  |
|                                                                                                  |                | MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s) |                                                                                                                        |                                                                                                                |                          |           |               |                        |          |     |              |  |
| www.fci.com                                                                                      |                |                                       | cat. no.                                                                                                               |                                                                                                                | -                        |           |               | Product - Customer Drw |          |     | sheet 3 of 5 |  |

A

B

C

D

| PART NUMBER<br>(HALOGEN FREE)<br>SEE NOTE 11 AND 16 | LENGTH "DIM L" (Meters) | ("DIM M")<br>(mm) | AWG |
|-----------------------------------------------------|-------------------------|-------------------|-----|
| 10112359-2005HLF                                    | 0.5                     | 17.3              | 30  |
| 10112359-2010HLF                                    | 1.0                     | 17.3              | 30  |
| 10112359-2015HLF                                    | 1.5                     | 17.3              | 30  |
| 10112359-2020HLF                                    | 2.0                     | 17.3              | 30  |
| 10112359-2025HLF                                    | 2.5                     | 17.3              | 30  |
| 10112359-2030HLF                                    | 3.0                     | 17.3              | 30  |
| 10112359-3005HLF                                    | 0.5                     | 17.3              | 28  |
| 10112359-3010HLF                                    | 1.0                     | 17.3              | 28  |
| 10112359-3015HLF                                    | 1.5                     | 17.3              | 28  |
| 10112359-3020HLF                                    | 2.0                     | 17.3              | 28  |
| 10112359-3025HLF                                    | 2.5                     | 17.3              | 28  |
| 10112359-3030HLF                                    | 3.0                     | 17.3              | 28  |
| 10112359-3035HLF                                    | 3.5                     | 17.3              | 28  |
| 10112359-3040HLF                                    | 4.0                     | 17.3              | 28  |
| 10112359-3045HLF                                    | 4.5                     | 17.3              | 28  |
| 10112359-3050HLF                                    | 5.0                     | 17.3              | 28  |
| 10112359-4005HLF                                    | 0.5                     | 20.1              | 26  |
| 10112359-4010HLF                                    | 1.0                     | 20.1              | 26  |
| 10112359-4015HLF                                    | 1.5                     | 20.1              | 26  |
| 10112359-4020HLF                                    | 2.0                     | 20.1              | 26  |
| 10112359-4025HLF                                    | 2.5                     | 20.1              | 26  |
| 10112359-4030HLF                                    | 3.0                     | 20.1              | 26  |
| 10112359-4035HLF                                    | 3.5                     | 20.1              | 26  |
| 10112359-4040HLF                                    | 4.0                     | 20.1              | 26  |
| 10112359-4045HLF                                    | 4.5                     | 20.1              | 26  |
| 10112359-4050HLF                                    | 5.0                     | 20.1              | 26  |
| 10112359-4055HLF                                    | 5.5                     | 20.1              | 26  |
| 10112359-4060HLF                                    | 6.0                     | 20.1              | 26  |
| 10112359-4065HLF                                    | 6.5                     | 20.1              | 26  |
| 10112359-4070HLF                                    | 7.0                     | 20.1              | 26  |

HALOGEN FREE CABLE ASSEMBLY PART NUMBERS

3

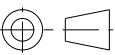
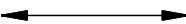
| PART NUMBER<br>(HALOGEN FREE)<br>SEE NOTE 11 AND 16 | LENGTH "DIM L" (Meters) | ("DIM M")<br>(mm) | AWG |
|-----------------------------------------------------|-------------------------|-------------------|-----|
| 10112359-5005HLF                                    | 0.5                     | 20.1              | 24  |
| 10112359-5010HLF                                    | 1.0                     | 20.1              | 24  |
| 10112359-5015HLF                                    | 1.5                     | 20.1              | 24  |
| 10112359-5020HLF                                    | 2.0                     | 20.1              | 24  |
| 10112359-5025HLF                                    | 2.5                     | 20.1              | 24  |
| 10112359-5030HLF                                    | 3.0                     | 20.1              | 24  |
| 10112359-5035HLF                                    | 3.5                     | 20.1              | 24  |
| 10112359-5040HLF                                    | 4.0                     | 20.1              | 24  |
| 10112359-5045HLF                                    | 4.5                     | 20.1              | 24  |
| 10112359-5050HLF                                    | 5.0                     | 20.1              | 24  |
| 10112359-5055HLF                                    | 5.5                     | 20.1              | 24  |
| 10112359-5060HLF                                    | 6.0                     | 20.1              | 24  |
| 10112359-5065HLF                                    | 6.5                     | 20.1              | 24  |
| 10112359-5070HLF                                    | 7.0                     | 20.1              | 24  |
| 10112359-5075HLF                                    | 7.5                     | 20.1              | 24  |
| 10112359-5080HLF                                    | 8.0                     | 20.1              | 24  |
| 10112359-5085HLF                                    | 8.5                     | 20.1              | 24  |
| 10112359-5090HLF                                    | 9.0                     | 20.1              | 24  |
| 10112359-5095HLF                                    | 9.5                     | 20.1              | 24  |
| 10112359-5100HLF                                    | 10.0                    | 20.1              | 24  |

A

B

C

D

|                                                                                       |                |                                                                   |                                                                                                                        |                                                                                                                |                        |               |
|---------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------|---------------|
| dr                                                                                    | Deborah Ingram | 2010/06/24                                                        | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size                   | scale         |
| eng                                                                                   | Tommy Lin      | 2014/01/03                                                        |                                                                                                                        |                                                                                                                | A3                     | 1:2           |
| chr                                                                                   | -              | -                                                                 |                                                                                                                        |                                                                                                                | ecn no E               | ELX-N-16637-1 |
| appr                                                                                  | Roger Cheng    | 2014/01/05                                                        | product family                                                                                                         | C&A                                                                                                            | rel level              | Released      |
|  |                | title                                                             |                                                                                                                        |                                                                                                                | dwg no                 | rev           |
| www.fci.com                                                                           |                | FINAL ASSEMBLY (PASSIVE)<br>MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s) |                                                                                                                        |                                                                                                                | 10112359               | B             |
| cat. no.                                                                              |                | -                                                                 |                                                                                                                        |                                                                                                                | Product - Customer Drw | sheet 4 of 5  |

2

3

PDS: Rev :B

STATUS:Released

4

Printed: Jan 06, 2014

| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10112359-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10112359-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 4 |

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)

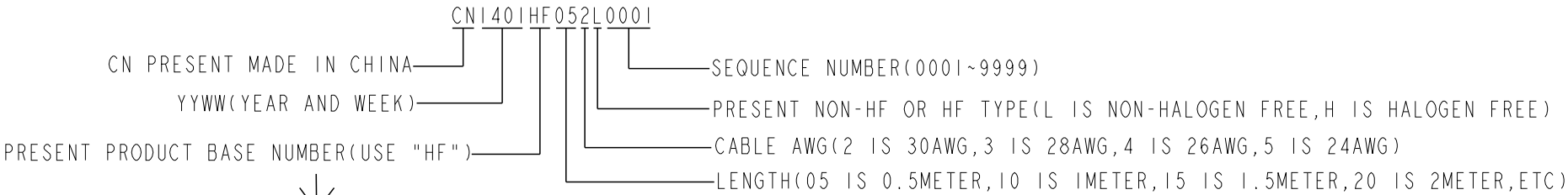
3. THIS DIMENSION IS A FINISHED PRODUCT LENGTH.

4. UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE IS TO BE:  
"DIM L" < 1 METER = ±25mm  
"DIM L" 1 METER TO 10 METERS = ± 2% OF "DIM L"  
"DIM L" > 10 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

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  
10112359-2005LF  
REV.B  
CN1401HF052L0001

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 "△" 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 2.1 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 | 2010/06/24                            | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size      | A3       | scale         | 1:2      |
| eng                                                                                   | Tommy Lin      | 2014/01/03                            |                                   |                           | ecn no    | E        | ELX-N-16637-1 |          |
| chr                                                                                   | -              | -                                     |                                   |                           | rel level |          |               | Released |
| appr                                                                                  | Roger Cheng    | 2014/01/05                            | product family                    |                           | C&A       |          |               |          |
|  | title          | FINAL ASSEMBLY (PASSIVE)              |                                   |                           | dwg no    | 10112359 |               | rev      |
|                                                                                       |                | MSAS HD 8X ASSEMBLY (3 Gb/s - 6 Gb/s) |                                   |                           |           |          |               |          |
| www.fci.com                                                                           | cat. no.       | -                                     | Product - Customer Drw            |                           |           |          | sheet 5 of 5  |          |