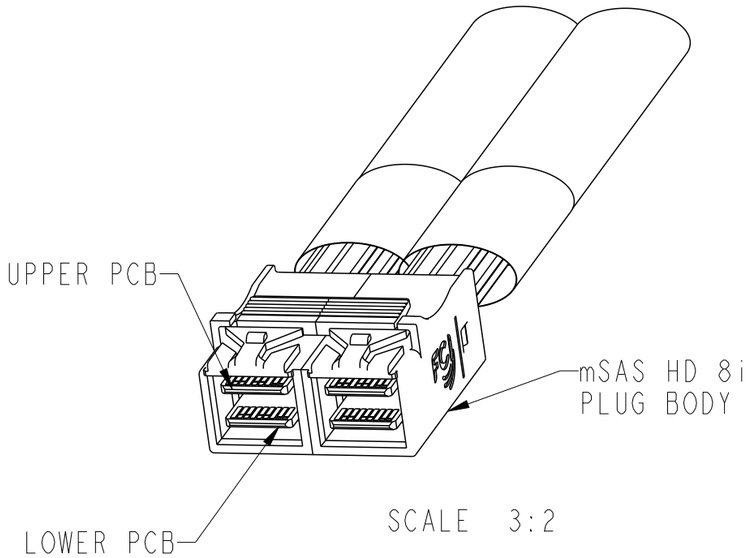
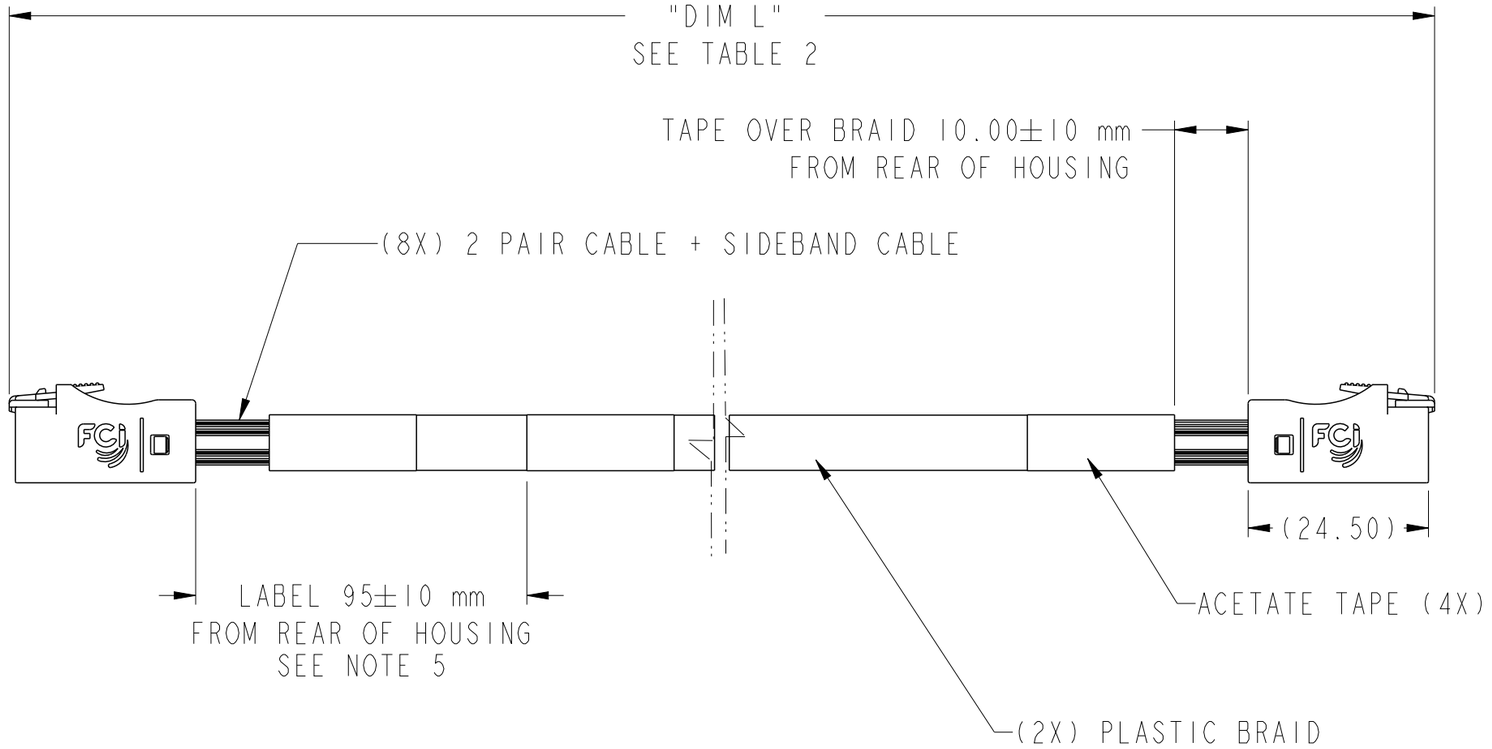
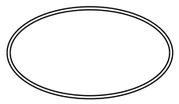
| FCI PART NUMBER | DESCRIPTION | NOTES |
|---|---|---|
| 10120089-XXXXLF | CONTROLLER TO CONTROLLER CONFIGURATION | SEE TABLE 1 |




SCALE 3:2



APPROX. CABLE
CROSS SECTION
8.0 mm x 5.25mm
SCALE 2:1

Copyright FCI.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | S Paulpandian | 2012/08/03 | projection | mm |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Jason Gu | 2013/05/16 | | |
| | | | | chr | Kevin Bai | 2013/05/19 | | |
| | | | | appr | Roger Cheng | 2013/05/19 | product family - | |
| surface - ISO 1302 | linear | 0.X | ±0.3 | FCI www.fci.com | title | mSAS HD INTERNAL (8i) CABLE ASSEMBLY- 12 Gb/s | dwg no 10120089 | rev C |
| | | 0.XX | ±0.10 | | | | | |
| | | 0.XXX | ±0.005 | | | | | |
| | angular | 0° | ±2° | | cat. no. - | Product - Customer Drw | | sheet 1 of 4 |

size A3 | scale 1:1 | ecn no ELX-N-14782-1 | rel level **Released**

| FCI PART NUMBER | DESCRIPTION | NOTES |
|---|---|---|
| 10120089-XXXXLF | CONTROLLER TO CONTROLLER CONFIGURATION | SEE TABLE 1 |

## TABLE 1 - CABLE PART NUMBER LIST

| PART NUMBER | "DIM L" CABLE LENGTH (METERS) | AWG | NOTES |
|---|---|---|---|
| 10120089-2030LF | 0.3 | 30 | CONTROLLER TO CONTROLLER WIRING CONFIGURATION (SHEET 2) ---- (SEE SHEET 3 FOR ALL NOTES) |
| 10120089-2040LF | 0.4 | 30 | |
| 10120089-2050LF | 0.5 | 30 | |
| 10120089-2060LF | 0.6 | 30 | |
| 10120089-2070LF | 0.7 | 30 | |
| 10120089-2080LF | 0.8 | 30 | |
| 10120089-2090LF | 0.9 | 30 | |
| 10120089-2100LF | 1.0 | 30 | |

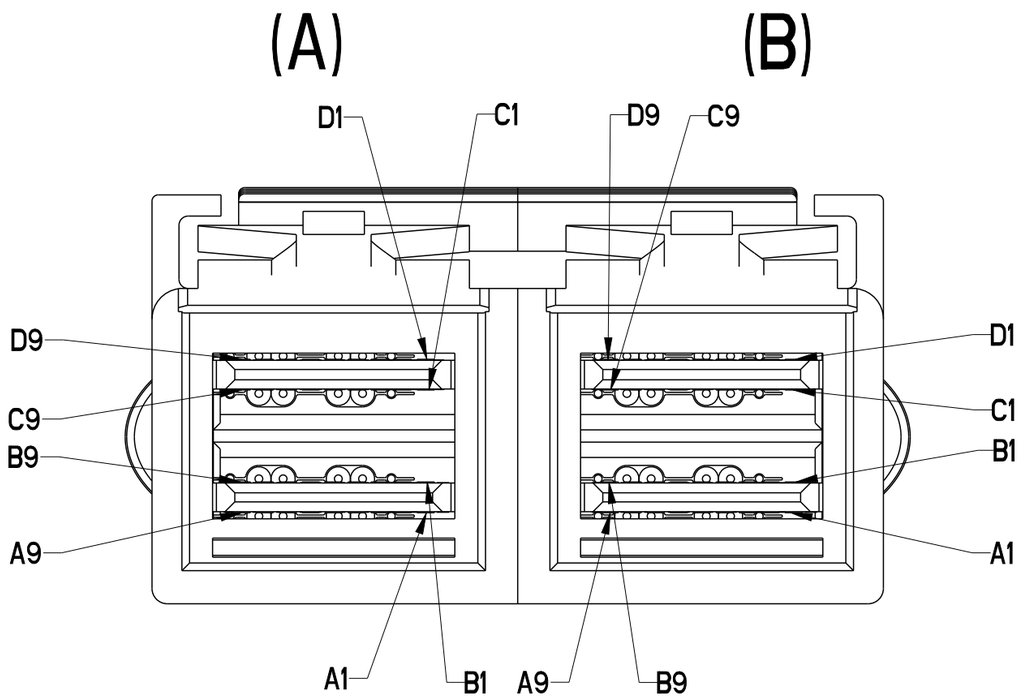
NOTE:
1. ALL CABLE PERFORMANCE COMPLIANT SAS3.0 C
2. CABLE MORE THAN 1M COULD NOT MEET SAS3.0 INSERTION LOSS -11dB MAX. C

Copyright FCI.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref - | | | dr | S Paulpandian | 2012/08/03 | projection | mm | size A3 / scale 1:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Jason Gu | 2013/05/16 | | | |
| | | | chr | Kevin Bai | 2013/05/19 | | | ecn no ELX-N-14782-1 |
| | | | appr | Roger Cheng | 2013/05/19 | product family - | | rel level Released |
| surface - ISO 1302 | linear | 0.X ±0.3 | FCI | title | mSAS HD INTERNAL (8i) CABLE ASSEMBLY- 12 Gb/s | | dwg no 10120089 | rev C |
| | | 0.XX ±0.10 | | | | | | |
| | | 0.XXX ±0.005 | | | | | | |
| | angular | 0° ±2° | www.fci.com | cat. no. - | | Product - Customer Drw | | sheet 2 of 4 |

| FCI PART NUMBER | DESCRIPTION | NOTES |
|---|---|---|
| 10120089-XXXXLF | CONTROLLER TO CONTROLLER CONFIGURATION | SEE TABLE 1 |

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




SCALE 5:1

| LEGEND | |
|---|---|
| | HIGH-SPEED SERIAL DIFFERENTIAL PAIRS |
| - - - - - - - - | SIGNAL RETURN |
| | SIDEBAND SIGNAL |

| WIRING LIST (CONTROLLER TO CONTROLLER) | | | | |
|---|---|---|---|---|
| END P1 (CONTROLLER) | | | END P2 (CONTROLLER) | |
| 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 | SIDEBAND 6 | <--------> | B2 | SIDEBAND 1 |
| D1 | SIDEBAND 5 | <--------> | C2 | SIDEBAND 2 |
| C1 | SIDEBAND 4 | <--------> | B1 | SIDEBAND 3 |
| C2 | SIDEBAND 2 | <--------> | D1 | SIDEBAND 5 |
| 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 | SIDEBAND 1 | <--------> | D2 | SIDEBAND 6 |
| B1 | SIDEBAND 3 | <--------> | C1 | SIDEBAND 4 |
| A1 | SIDEBAND 7 | <--------> | A2 | SIDEBAND 0 |
| A2 | SIDEBAND 0 | <--------> | A1 | SIDEBAND 7 |
| 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 |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | dr | S Paulpandian | 2012/08/03 | projection | mm | size A3 / scale 2:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | eng | Jason Gu | 2013/05/16 | | | ecn no ELX-N-14782-1 |
| surface - ISO 1302 | linear 0.X ±0.3; 0.XX ±0.10; 0.XXX ±0.005 | chr | Kevin Bai | 2013/05/19 | | | |
| | angular 0° ±2° | appr | Roger Cheng | 2013/05/19 | product family - | | rel level Released |

| | | | |
|---|---|---|---|
| www.fci.com | title: mSAS HD INTERNAL (8i) CABLE ASSEMBLY- 12 Gb/s | dwg no 10120089 | rev C |
| | cat. no. - | Product - Customer Drw | sheet 3 of 4 |

NOTES:
1. MATERIAL:
    HOUSINGS: MODIFIED POLYPHENYLENE ETHER
    PADDLE CARD: PRINTED CIRCUIT SUBSTRATE
    HEAT SHRINK TUBE: POLYOLEFIN
    EPOXY LOCTITE

2. THIS PRODUCT MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN
    ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2002/95/EC)

3. THIS DIMENSION IS A FINISHED PRODUCT LENGTH.

4. UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE IS TO BE:
    "DIM L" < 1 METER = ±15mm
    "DIM L"  1 METER TO 10 METERS = ± 2% OF "DIM L"

5. UNLESS OTHERWISE SPECIFIED LABEL POSITION IS TO BE 95mm FROM REAR OF P1 CONNECTOR.
    LABEL DETAILS:
    MANUFACTURER CODE OR NAME  COUNTRY OF ORIGIN
    CUSTOMER P/N OR FCI P/N
    REVISION
    DATE CODE (YYYY/MM/DD FORMAT) - SERIAL NUMBER

    FONT SHALL BE CLEARLY VISIBLE AND BLACK IN COLOR.

6. ALL CABLE ASSEMBLIES SHALL BE 100% TESTED FOR CONTINUITY AS DEFINED IN WIRING LIST.

7. ALL CABLE ASSEMBLIES SHALL BE 100% HI-POT TESTED BH APPLYING 300V DC FOR A MINUMUM OF 10ms.

8. IMPEDANCE: 100Ω DIFFERENTIAL.

9. OTHER TESTING PERFORMED AS REQUIRED BY PRODUCT SPECIFICATION: GS-12-650.

10. PACKAGE AND LABEL CABLE ASSEMBLIES PER GS-14-1272.

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. "HLF" PRODUCT NUMBERS DESIGNATE THE USE OF HALOGEN FREE RAW CABLE.

13. HALOGEN FREE RAW CABLE CAN BE USED AS A SUBSTITUTE ON NON-HF PRODUCT NUMBERS.

14. PART NUMBER/SUPPLIER SUBSTITUTION IS NOT ALLOWED.

15. THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING AND ELECTRICAL REQUIREMENTS OF THE SFF-8643 SPECIFICATION.

△C

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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref - | | | | dr | S Paulpandian | 2012/08/03 | projection | mm | size A3 / scale 2:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Jason Gu | 2013/05/16 | | | |
| | | | | chr | Kevin Bai | 2013/05/19 | | | ecn no ELX-N-14782-1 |
| | | | | appr | Roger Cheng | 2013/05/19 | product family - | | rel level Released |
| surface - ISO 1302 | linear | 0.X | ±0.3 | FCI | title | mSAS HD INTERNAL (8i) CABLE ASSEMBLY- 12 Gb/s | | dwg no 10120089 | rev C |
| | | 0.XX | ±0.10 | | | | | | |
| | | 0.XXX | ±0.005 | | | | | | |
| | angular | 0° | ±2° | www.fci.com | cat. no. - | | Product - Customer Drw | | sheet 4 of 4 |