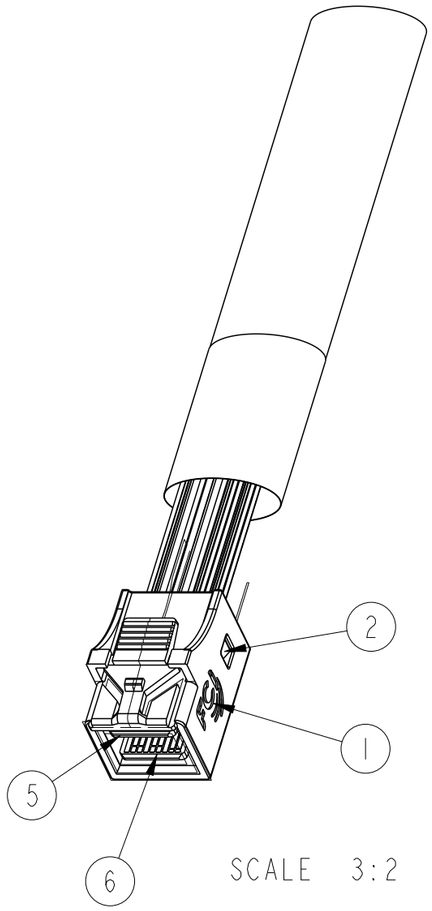
| FCI PART NUMBER | DESCRIPTION | NOTES |
|---|---|---|
| 10123417-XXXXLF | CONTROLLER TO BACKPLANE CONFIGURATION | SEE TABLE 2 |




SCALE 3:2

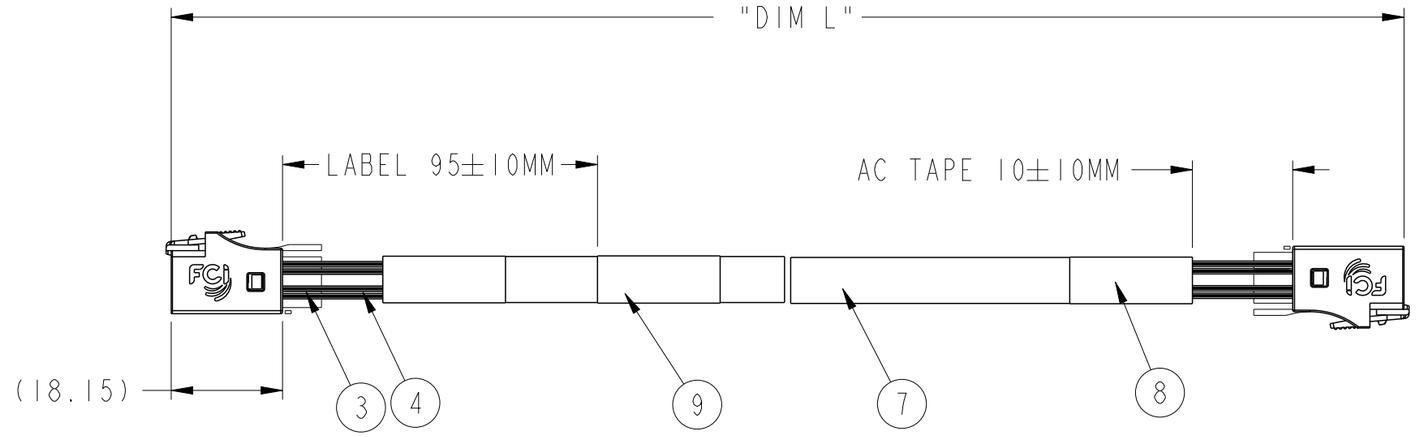



**TABLE 1 - BILL OF MATERIALS**

| ITEM | DESCRIPTION | QTY | NOTES |
|---|---|---|---|
| 1 | mSAS HD INTERNAL HOUSING- SHORT | 2 | |
| 2 | mSAS HD INTERNAL PCB INSERT- SHORT | 2 | |
| 3 | FLAT RIBBON CABLE GPPG (30 AWG) | A/R | SEE TABLE 2 |
| 4 | SIDE BAND FLAT RIBBON CABLE (30 AWG) | A/R | |
| 5 | mSAS HD INTERNAL LOWER (A-B) PCB | 2 | |
| 6 | mSAS HD INTERNAL UPPER (C-D) PCB | 2 | |
| 7 | PLASTIC BRAID | A/R | |
| 8 | ACETATE TAPE 20mm BLACK | A/R | |
| 9 | LABEL | 1 | SEE NOTE 5 |
| 10 | 3525 LOCTITE | A/R | NOT SHOWN |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | | dr | Andy Wu | 2013/01/03 | projection | mm |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Andy Wu | 2013/01/17 | | |
| | | | chr | - | - | | |
| | | | appr | Roger Cheng | 2013/01/20 | product family | - |
| surface - ISO 1302 | linear | 0.X ±0.3 | FCI www.fci.com | title | mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 6 Gb/s, short type | dwg no | 10123417 |
| | | 0.XX ±0.10 | | | | | |
| | | 0.XXX ±0.005 | | | | | |
| | angular | 0° ±2° | | cat. no. | - | Product - Customer Drw | |

| size | scale | rev |
|---|---|---|
| A3 | 1:1 | B |
| ecn no | ELX-N-13885-1 | |
| rel level | Released | |
| sheet 1 of 4 | | |

Copyright FCI.

Pro/E File - REV C - 2009-06-09

PDS: Rev :B STATUS:Released Printed: Jan 21, 2013

| FCI PART NUMBER | DESCRIPTION | NOTES |
|---|---|---|
| 10123417-XXXXLF | CONTROLLER TO BACKPLANE CONFIGURATION | SEE TABLE 2 |

## TABLE 2- CABLE PART NUMBER LIST

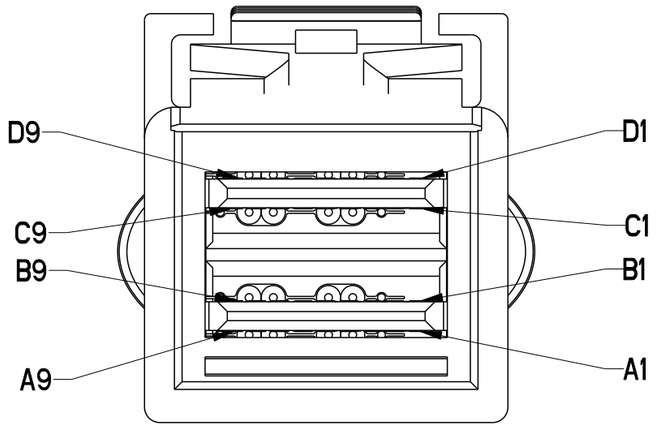
| PART NUMBER | "DIM L" CABLE LENGTH (METERS) | AWG | NOTES |
|---|---|---|---|
| 10123417-2030LF | 0.3 | 30 | CONTROLLER TO BACKPLANE WIRING CONFIGURATION (SHEET 2) ---- (SEE SHEET 4 FOR ALL NOTES) |
| 10123417-2040LF | 0.4 | 30 | |
| 10123417-2050LF | 0.5 | 30 | |
| 10123417-2060LF | 0.6 | 30 | |
| 10123417-2070LF | 0.7 | 30 | |
| 10123417-2080LF | 0.8 | 30 | |
| 10123417-2090LF | 0.9 | 30 | |
| 10123417-2100LF | 1.0 | 30 | |

NOTE:
1. ALL CABLE PERFORMANCE COMPLIANCE SAS2.1
2. CABLE MORE THAN 1.0 METER COULD NOT MEET SAS2.1 INSERTION LOSS -6dB MAX.

Copyright FCI.

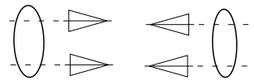
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | dr | Andy Wu | 2013/01/03 | projection | mm | size A3 / scale 1:2 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Andy Wu | 2013/01/17 | | | |
| | | | chr | - | - | | | ecn no ELX-N-13885-1 |
| | | | appr | Roger Cheng | 2013/01/20 | product family - | | rel level Released |
| surface - ISO 1302 | linear | 0.X ±0.3 | FCI www.fci.com | title | mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 6 Gb/s, short type | | dwg no 10123417 | rev B |
| | | 0.XX ±0.10 | | | | | | |
| | | 0.XXX ±0.005 | | | | | | |
| | angular | 0° ±2° | | cat. no. - | | Product - Customer Drw | | sheet 2 of 4 |

| FCI PART NUMBER | DESCRIPTION | NOTES |
|---|---|---|
| 10123417-XXXXLF | CONTROLLER TO BACKPLANE CONFIGURATION | SEE TABLE 2 |




SCALE 5:1

## LEGEND

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

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

Copyright FCI.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | | dr | Andy Wu | 2013/01/03 | projection | mm |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Andy Wu | 2013/01/17 | | |
| | | | chr | - | - | | |
| | | | appr | Roger Cheng | 2013/01/20 | product family | - |
| surface - ISO 1302 | linear | 0.X ±0.3 | | | | | |
| | | 0.XX ±0.10 | | | | | |
| | | 0.XXX ±0.005 | | | | | |
| | angular | 0° ±2° | | | | | |

| | | | | |
|---|---|---|---|---|
| size A3 | scale 1:1 | | | |
| ecn no | ELX-N-13885-1 | | | |
| rel level | Released | | | |
| www.fci.com | title | mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 6 Gb/s, short type | dwg no 10123417 | rev B |
| cat. no. - | Product - Customer Drw | | | sheet 3 of 4 |

Pro/E File - REV C - 2009-06-09

PDS: Rev :B STATUS:Released Printed: Jan 21, 2013

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.

Copyright FCI.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Andy Wu | 2013/01/03 | projection | mm | size A3 / scale 1:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Andy Wu | 2013/01/17 | | | ecn no ELX-N-13885-1 |
| | | | | chr | - | - | | | |
| | | | | appr | Roger Cheng | 2013/01/20 | product family - | | rel level Released |
| surface - ISO 1302 | linear | 0.X | ±0.3 | FCI | title: mSAS HD INTERNAL (4i) CABLE ASSEMBLY- 6 Gb/s, short type | | dwg no 10123417 | | rev B |
| | | 0.XX | ±0.10 | | | | | | |
| | | 0.XXX | ±0.005 | | | | | | |
| | angular | 0° | ±2° | www.fci.com | cat. no. - | | Product - Customer Drw | | sheet 4 of 4 |