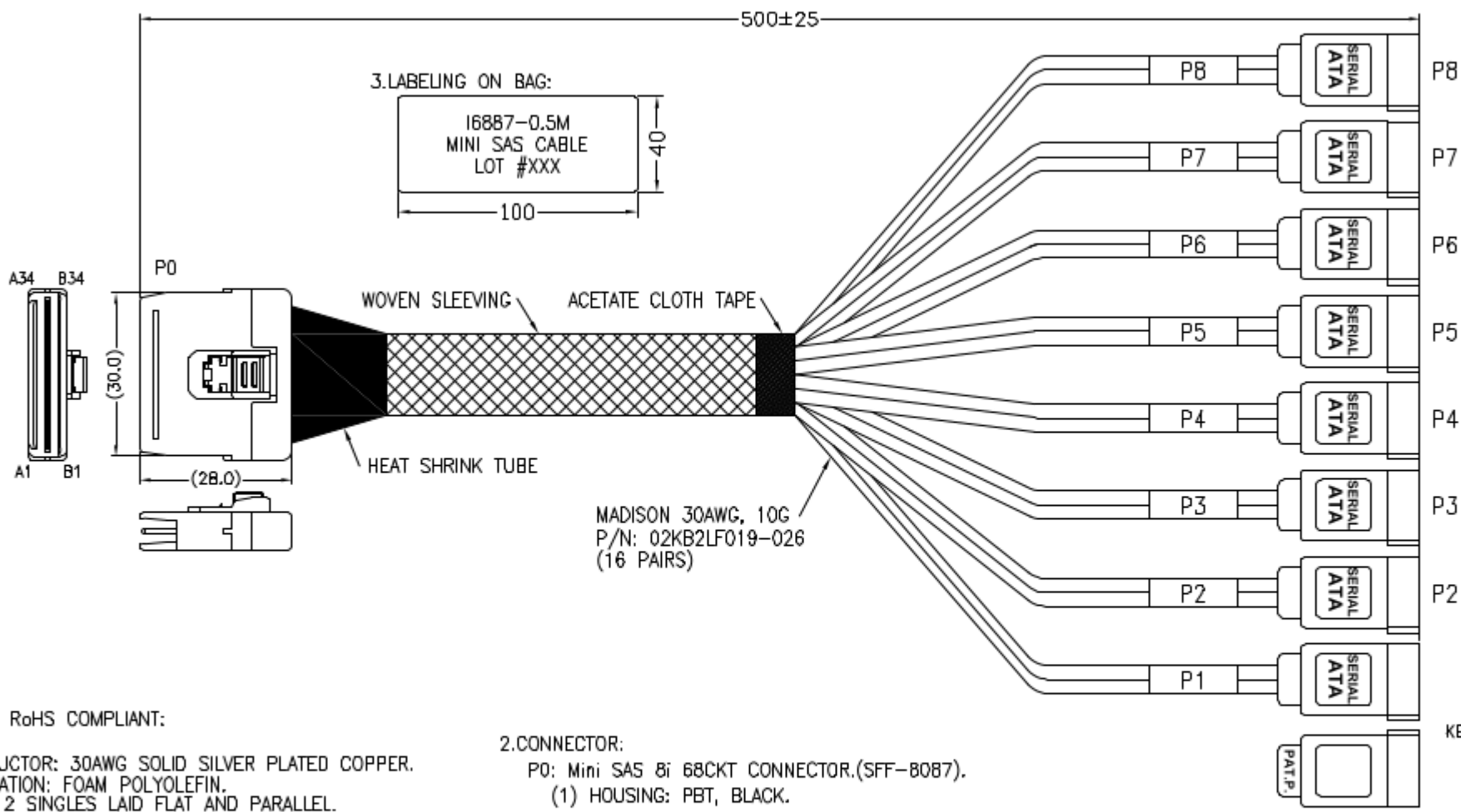


|      |        |      |       |   |   |   |   |   |
|------|--------|------|-------|---|---|---|---|---|
| 1    | 2      | 3    | 4     | 5 | 6 | 7 | 8 | 9 |
| REV. | REMARK | DATE | SIGN. |   |   |   |   |   |
|      |        |      |       |   |   |   |   |   |

RoHS



MATERIAL RoHS COMPLIANT:

1.CABLE:

CONDUCTOR: 30AWG SOLID SILVER PLATED COPPER.  
 INSULATION: FOAM POLYOLEFIN.  
 PAIR: 2 SINGLES LAID FLAT AND PARALLEL.  
 PAIR DRAIN WIRE: 30AWG SOLID TIN PLATED COPPER.  
 PAIR SHIELD: ALUMINUM/POLYESTER TAPE.  
 ALUMINUM SIDE FACING IN, 25% OVERLAP.  
 DIFFERENTIAL IMPEDANCE: 100±5 OHMS @TDR  
 UL RECOGNIZED: AWM STYLE 21490 80°C 30 VOLTS.

2.CONNECTOR:

P0: Mini SAS 8i 68CKT CONNECTOR.(SFF-8087).  
 (1) HOUSING: PBT, BLACK.  
 (2) P.C.B: 4 LAYERS, GOLD PLATING ON CONTACT PADS.  
 (3) LATCH: STAINLESS.  
 (4) INTERNAL, WITHOUT SIDEBAND.  
 P1-P8: SATA 7P INTERNAL CABLE REC.

**TMC** The Mate Company

|       |  |              |            |          |           |       |          |         |             |  |
|-------|--|--------------|------------|----------|-----------|-------|----------|---------|-------------|--|
| DESC. | MiniSAS 8i TO 8*SATA 7PIN WITHOUT SIDEBAND CABLE ASS'Y | APPROVED     | CHECKED    | DESIGNED | TOLERANCE | SCALE | *        | UNIT    | mm          |  |
| P/N   | 16887-0.5M   | CUSTOMER P/N | 16887-0.5M | Sino     |           | DATE  | 07/12/17 | DWG NO: | DWG\RC\8310 |  |

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

|      |                 |           |       |
|------|-----------------|-----------|-------|
| REV. | REMARK          | DATE      | SIGN. |
| ◇    | REVISED PIN&GND | 07/25/'17 | Sino  |

WIRING DIAGRAM

| Mini SAS 8i(HOST) |           |        | SATA internal cable rec.(TARGET) |        |        |
|-------------------|-----------|--------|----------------------------------|--------|--------|
| PLUG              | PIN       | SIGNAL | REC.                             | PIN    | SIGNAL |
| P0                | A2        | RX0+   | P1                               | 6      | TX+    |
|                   | A3        | RX0-   |                                  | 5      | TX-    |
|                   | B3        | TX0-   |                                  | 3      | RX-    |
|                   | B2        | TX0+   |                                  | 2      | RX+    |
|                   | GND GROUP |        |                                  | 1,4,7  | GROUND |
|                   | A5        | RX1+   | P2                               | 6      | TX+    |
|                   | A6        | RX1-   |                                  | 5      | TX-    |
|                   | B6        | TX1-   |                                  | 3      | RX-    |
|                   | B5        | TX1+   |                                  | 2      | RX+    |
|                   | GND GROUP |        |                                  | 1,4,7  | GROUND |
| ◇                 | A8        | RX2+   | P3                               | 6      | TX+    |
| ◇                 | A9        | RX2-   |                                  | 5      | TX-    |
| ◇                 | B9        | TX2-   |                                  | 3      | RX-    |
| ◇                 | B8        | TX2+   |                                  | 2      | RX+    |
| GND GROUP         |           | 1,4,7  |                                  | GROUND |        |
| ◇                 | A11       | RX3+   | P4                               | 6      | TX+    |
| ◇                 | A12       | RX3-   |                                  | 5      | TX-    |
| ◇                 | B12       | TX3-   |                                  | 3      | RX-    |
| ◇                 | B11       | TX3+   |                                  | 2      | RX+    |
| GND GROUP         |           | 1,4,7  |                                  | GROUND |        |

| Mini SAS 8i(HOST) |           |        | SATA internal cable rec.(TARGET) |        |        |
|-------------------|-----------|--------|----------------------------------|--------|--------|
| PLUG              | PIN       | SIGNAL | REC.                             | PIN    | SIGNAL |
| P0                | A23       | RX4+   | P5                               | 6      | TX+    |
|                   | A24       | RX4-   |                                  | 5      | TX-    |
|                   | B24       | TX4-   |                                  | 3      | RX-    |
|                   | B23       | TX4+   |                                  | 2      | RX+    |
|                   | GND GROUP |        |                                  | 1,4,7  | GROUND |
| A26               | RX5+      | P6     | 6                                | TX+    |        |
| A27               | RX5-      |        | 5                                | TX-    |        |
| B27               | TX5-      |        | 3                                | RX-    |        |
| B26               | TX5+      |        | 2                                | RX+    |        |
| GND GROUP         |           |        | 1,4,7                            | GROUND |        |
| A29               | RX6+      | P7     | 6                                | TX+    |        |
| A30               | RX6-      |        | 5                                | TX-    |        |
| B30               | TX6-      |        | 3                                | RX-    |        |
| B29               | TX6+      |        | 2                                | RX+    |        |
| GND GROUP         |           |        | 1,4,7                            | GROUND |        |
| A32               | RX7+      | P8     | 6                                | TX+    |        |
| A33               | RX7-      |        | 5                                | TX-    |        |
| B33               | TX7-      |        | 3                                | RX-    |        |
| B32               | TX7+      |        | 2                                | RX+    |        |
| GND GROUP         |           |        | 1,4,7                            | GROUND |        |

P0 GND GROUP:  
A1,A4,A7,A10,A13,A22,A25,A28,A31,A34  
B1,B4,B7,B10,B13,B22,B25,B28,B31,B34



|       |  |              |         |          |           |       |           |         |             |  |
|-------|--|--------------|---------|----------|-----------|-------|-----------|---------|-------------|--|
| DESC. | MiniSAS 8i TO 8*SATA 7PIN WITHOUT SIDEBAND CABLE ASS'Y | APPROVED     | CHECKED | DESIGNED | TOLERANCE | SCALE | *         | UNIT    | mm          |  |
| P/N   | 16887-0.5M   | CUSTOMER P/N |         | Sino     |           | DATE  | 07/25/'17 | DWG NO: | DWG\RC\8310 |  |