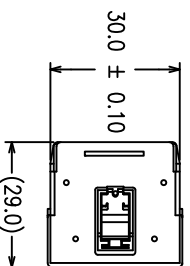


| REVISION RECORD |                    |          |
|-----------------|--------------------|----------|
| REV.            | ECR/ECN/ECO NUMBER | DATE     |
| A               | ECO-0037298        | 04/11/11 |
| B               | ECO-0037543        | 18/11/11 |

Technical drawing of a cable assembly. The drawing shows a top view of the cable with various dimensions and callouts. The total length is indicated as "LENGTH" with a triangle symbol. The cable has a central section with a label that reads: #9568-AXXXX05-XX, VENDOR ID: 0000, LOT #: 111111. The cable is terminated with connectors at both ends. Dimensions include: 6.37 ± 0.13 (connector width), 30 ± 3 (cable width), 1.75 ± 0.15 (cable width), and 6.37 ± 0.13 (connector width). Callouts B1, A1, B34, A34, P1, and P2 are shown. A triangle symbol is used to indicate a specific feature.



8 F 68 - AA X X 05 - X.XX

- PINOUT (SEE PINOUTS ON SHEET 2)

- LENGTH IN METERS

CABLE USED

G : 4-LANE WITH SIDEBANDS, SN-PLATED SIGNAL, CABLE P/N SL8801/12-21DA5-00  
J : 4-LANE WITH SIDEBANDS, AG-PLATED SIGNAL, CABLE P/N SL8801/12-20DA5-00  
\* FOR CABLES WITHOUT SIDEBANDS OR OTHER CONFIGURATIONS, PLEASE CONTACT A 3M REPRESENTATIVE.

|                                                                                     |                                                                                                                                                                                          |                |                                    |  |            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------|--|------------|
| UNIT: MM                                                                            | DATE                                                                                                                                                                                     |                | DIVISION                           |  | STATUS     |
| GEN. TOLERANCES                                                                     | DTG                                                                                                                                                                                      | KOK HOE LEE    | ESD                                |  | RELEASED   |
| LINEAR                                                                              | CHKD                                                                                                                                                                                     | YUNJONG QIAO   | MODEL                              |  |            |
| .0 = ±0.25                                                                          | APPLY                                                                                                                                                                                    | SAJJIT BANDHU  | DATE                               |  |            |
| .00 = ±0.15                                                                         | THIS DOCUMENT CONTAINS INFORMATION WHICH IS PREPARED TO SAY OR MAKE NO REPRESENTATION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM S&L |                |                                    |  |            |
| .000 = ±0.05                                                                        |                                                                                                                                                                                          |                |                                    |  |            |
| ANGLE ±1°                                                                           |                                                                                                                                                                                          |                |                                    |  |            |
| PROJECTION                                                                          | INTERPRET PER ASME Y14.5M-1994                                                                                                                                                           |                | TITLE                              |  |            |
|  | SIZE                                                                                                                                                                                     | DRAWING NO.    | INTERNAL 68P MINISAS RIBBON TWINAX |  |            |
|                                                                                     | A3                                                                                                                                                                                       | 78-5100-2450-4 | CABLE ASSEMBLY                     |  |            |
|  | SCALE : NTS                                                                                                                                                                              |                | DET LIST                           |  | YES        |
|                                                                                     |                                                                                                                                                                                          |                | NO                                 |  | SHT 1 of 2 |

3M™ HIGH ROUTABILITY INTERNAL MINISAS CABLE ASSEMBLY, 8F68 SERIES

| REVISION RECORD       |                    |      |
|-----------------------|--------------------|------|
| REV.                  | ECR/ECN/ECO NUMBER | DATE |
|                       |                    |      |
| REFER TO SHEET 1 OF 2 |                    |      |

PINOUT 1

BACKPLANE-TO-CONTROLLER

| P1            | B1  | P2        | B1  | P1            | A1  | P2        | B1  |
|---------------|-----|-----------|-----|---------------|-----|-----------|-----|
| A1 GND        | B1  | GND       | B2  | A2 GND        | A2  | Rx_0+     | B2  |
| A2 Rx_0+      | B2  | Tx_0+     | B3  | A3 Rx_0-      | A3  | Rx_0-     | B3  |
| A3 Rx_0-      | B3  | Tx_0-     | B4  | A4 GND        | A4  | GND       | B4  |
| A4 GND        | B4  | GND       | B5  | A5 Rx_1+      | A5  | Rx_1+     | B5  |
| A5 Rx_1+      | B5  | Tx_1+     | B6  | A6 Rx_1-      | A6  | Rx_1-     | B6  |
| A6 Rx_1-      | B6  | Tx_1-     | B7  | A7 GND        | A7  | GND       | B7  |
| A7 GND        | B7  | GND       | B8  | A8 Rx_2+      | A8  | Rx_2+     | B8  |
| A8 Rx_2+      | B8  | Tx_2+     | B9  | A9 Rx_2-      | A9  | Rx_2-     | B9  |
| A9 Rx_2-      | B9  | Tx_2-     | B10 | A10 GND       | A10 | GND       | B10 |
| A10 GND       | B10 | GND       | B11 | A11 Rx_3+     | A11 | Rx_3+     | B11 |
| A11 Rx_3+     | B11 | Tx_3+     | B12 | A12 Rx_3-     | A12 | Rx_3-     | B12 |
| A12 Rx_3-     | B12 | Tx_3-     | B13 | A13 GND       | A13 | GND       | B13 |
| A13 GND       | B13 | GND       | B14 | A14 SIDE BAND | A14 | SIDE BAND | B14 |
| A14 SIDE BAND | B14 | SIDE BAND | B15 | A15 SIDE BAND | A15 | SIDE BAND | B15 |
| A15 SIDE BAND | B15 | SIDE BAND | B16 | A16 SIDE BAND | A16 | SIDE BAND | B16 |
| A16 SIDE BAND | B16 | SIDE BAND | B17 | A17 SIDE BAND | A17 | SIDE BAND | B17 |
| A17 SIDE BAND | B17 | SIDE BAND | B18 | A18 SIDE BAND | A18 | SIDE BAND | B18 |
| A18 SIDE BAND | B18 | SIDE BAND | B19 | A19 SIDE BAND | A19 | SIDE BAND | B19 |
| A19 SIDE BAND | B19 | SIDE BAND | B20 | A20 SIDE BAND | A20 | SIDE BAND | B20 |
| A20 SIDE BAND | B20 | SIDE BAND | B21 | A21 SIDE BAND | A21 | SIDE BAND | B21 |
| A21 SIDE BAND | B21 | SIDE BAND | B22 | A22 GND       | A22 | GND       | B22 |
| A22 GND       | B22 | GND       | B23 | A23 Rx_4+     | A23 | Rx_4+     | B23 |
| A23 Rx_4+     | B23 | Tx_4+     | B24 | A24 Rx_4-     | A24 | Rx_4-     | B24 |
| A24 Rx_4-     | B24 | Tx_4-     | B25 | A25 GND       | A25 | GND       | B25 |
| A25 GND       | B25 | GND       | B26 | A26 Tx_5+     | A26 | Rx_5+     | B26 |
| A26 Tx_5+     | B26 | Tx_5+     | B27 | A27 Rx_5-     | A27 | Rx_5-     | B27 |
| A27 Rx_5-     | B27 | Tx_5-     | B28 | A28 GND       | A28 | GND       | B28 |
| A28 GND       | B28 | GND       | B29 | A29 Rx_6+     | A29 | Rx_6+     | B29 |
| A29 Rx_6+     | B29 | Tx_6+     | B30 | A30 Rx_6-     | A30 | Rx_6-     | B30 |
| A30 Rx_6-     | B30 | Tx_6-     | B31 | A31 GND       | A31 | GND       | B31 |
| A31 GND       | B31 | GND       | B32 | A32 Rx_7+     | A32 | Rx_7+     | B32 |
| A32 Rx_7+     | B32 | Tx_7+     | B33 | A33 Rx_7-     | A33 | Rx_7-     | B33 |
| A33 Rx_7-     | B33 | Tx_7-     | B34 | A34 GND       | A34 | GND       | B34 |

PINOUT 3

BACKPLANE-TO-CONTROLLER (NO SIDE BANDS)

| P1        | B1  | P2    | B1  | P1        | A1  | P2    | B1  |
|-----------|-----|-------|-----|-----------|-----|-------|-----|
| A1 GND    | B1  | GND   | B2  | A2 GND    | A2  | Rx_0+ | B2  |
| A2 Rx_0+  | B2  | Tx_0+ | B3  | A3 Rx_0-  | A3  | Rx_0- | B3  |
| A3 Rx_0-  | B3  | Tx_0- | B4  | A4 GND    | A4  | GND   | B4  |
| A4 GND    | B4  | GND   | B5  | A5 Rx_1+  | A5  | Rx_1+ | B5  |
| A5 Rx_1+  | B5  | Tx_1+ | B6  | A6 Rx_1-  | A6  | Rx_1- | B6  |
| A6 Rx_1-  | B6  | Tx_1- | B7  | A7 GND    | A7  | GND   | B7  |
| A7 GND    | B7  | GND   | B8  | A8 Rx_2+  | A8  | Rx_2+ | B8  |
| A8 Rx_2+  | B8  | Tx_2+ | B9  | A9 Rx_2-  | A9  | Rx_2- | B9  |
| A9 Rx_2-  | B9  | Tx_2- | B10 | A10 GND   | A10 | GND   | B10 |
| A10 GND   | B10 | GND   | B11 | A11 Rx_3+ | A11 | Rx_3+ | B11 |
| A11 Rx_3+ | B11 | Tx_3+ | B12 | A12 Rx_3- | A12 | Rx_3- | B12 |
| A12 Rx_3- | B12 | Tx_3- | B13 | A13 GND   | A13 | GND   | B13 |
| A13 GND   | B13 | GND   | B22 | A22 GND   | A22 | GND   | B22 |
| A22 GND   | B22 | GND   | B23 | A23 Rx_4+ | A23 | Rx_4+ | B23 |
| A23 Rx_4+ | B23 | Tx_4+ | B24 | A24 Rx_4- | A24 | Rx_4- | B24 |
| A24 Rx_4- | B24 | Tx_4- | B25 | A25 GND   | A25 | GND   | B25 |
| A25 GND   | B25 | GND   | B26 | A26 Tx_5+ | A26 | Rx_5+ | B26 |
| A26 Tx_5+ | B26 | Tx_5+ | B27 | A27 Rx_5- | A27 | Rx_5- | B27 |
| A27 Rx_5- | B27 | Tx_5- | B28 | A28 GND   | A28 | GND   | B28 |
| A28 GND   | B28 | GND   | B29 | A29 Rx_6+ | A29 | Rx_6+ | B29 |
| A29 Rx_6+ | B29 | Tx_6+ | B30 | A30 Rx_6- | A30 | Rx_6- | B30 |
| A30 Rx_6- | B30 | Tx_6- | B31 | A31 GND   | A31 | GND   | B31 |
| A31 GND   | B31 | GND   | B32 | A32 Rx_7+ | A32 | Rx_7+ | B32 |
| A32 Rx_7+ | B32 | Tx_7+ | B33 | A33 Rx_7- | A33 | Rx_7- | B33 |
| A33 Rx_7- | B33 | Tx_7- | B34 | A34 GND   | A34 | GND   | B34 |

NOTES:

1. A1, A4, A7, A10, A13, A22, A25, A28, A31, A34, B1, B4, B7, B10, B13, B22, B25, B28, B31 AND B34 ARE ALL REFERENCE GROUNDS AND ARE SHORTED TOGETHER THROUGH THE PADDELCARD GROUND PLANES.
2. A14-A21 AND B14-B21 HAVE NO CONNECTIONS TO CABLE.

5. PRODUCT DATA SHEET: 78-5102-0113-6

6. FOUR RIBBONS OF 3M RIBBON TWIN AXIAL CABLE

7. THIS UNIQUE CABLE CONSTRUCTION HAS A THIN ALUMINUM INNER LAYER EXPOSED AT EACH EDGE. USERS SHOULD ASSESS WHETHER THE EXPOSED EDGE PRESENTS A SHORTING RISK IN THEIR SPECIFIC APPLICATION. INSULATING TAPE MAY BE APPLIED AT THE CABLE ASSEMBLY LEVEL, AS NEEDED, TO COVER THIS EXPOSED EDGE IN RISK AREAS.

LENGTH TOLERANCE:

± 10MM FOR LENGTH <=0.5 METER  
± 15MM FOR LENGTH >0.5 METER

- NOTE:
1. A1, A4, A7, A10, A13, A22, A25, A28, A31, A34, B1, B4, B7, B10, B13, B22, B25, B28, B31 AND B34 ARE ALL REFERENCE GROUNDS AND ARE SHORTED TOGETHER THROUGH THE PADDELCARD GROUND PLANES.

Visit <http://www.3Mconnector.com>

|                                                    |                                                                                                                                                        |               |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UNIT: MM                                           | DATE 18/11/11                                                                                                                                          | DATE 18/11/11 |
| GEN. TOLERANCES                                    | CHKD YUNLONG QIAO                                                                                                                                      | DATE 18/11/11 |
| LINEAR<br>0 = ±0.25<br>.00 = ±0.15<br>.000 = ±0.05 | APPL SAUJIT BANDHU                                                                                                                                     | DATE 18/11/11 |
| ANGLE<br>±1°                                       | THIS DOCUMENT CONTAINS INFORMATION WHICH IS PRESENTED TO YOU WITHOUT WARRANTY, REPRESENTATION OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M. |               |
| PROJECTION                                         | INTERPRET PER ASME Y14.5M-1994                                                                                                                         |               |
| CRITICAL DIMENSION: ▲                              |                                                                                                                                                        |               |
| TITLE<br>INTERNAL 68P MINISAS RIBBON TWINAX        |                                                                                                                                                        |               |
| SIZE<br>A3                                         | DRAWING NO.<br>78-5100-2450-4                                                                                                                          | REV<br>B      |
| SCALE : NTS                                        | DET LIST                                                                                                                                               | YES NO        |
| SHEET 2 OF 2                                       |                                                                                                                                                        |               |



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Электрон  
Связь**

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