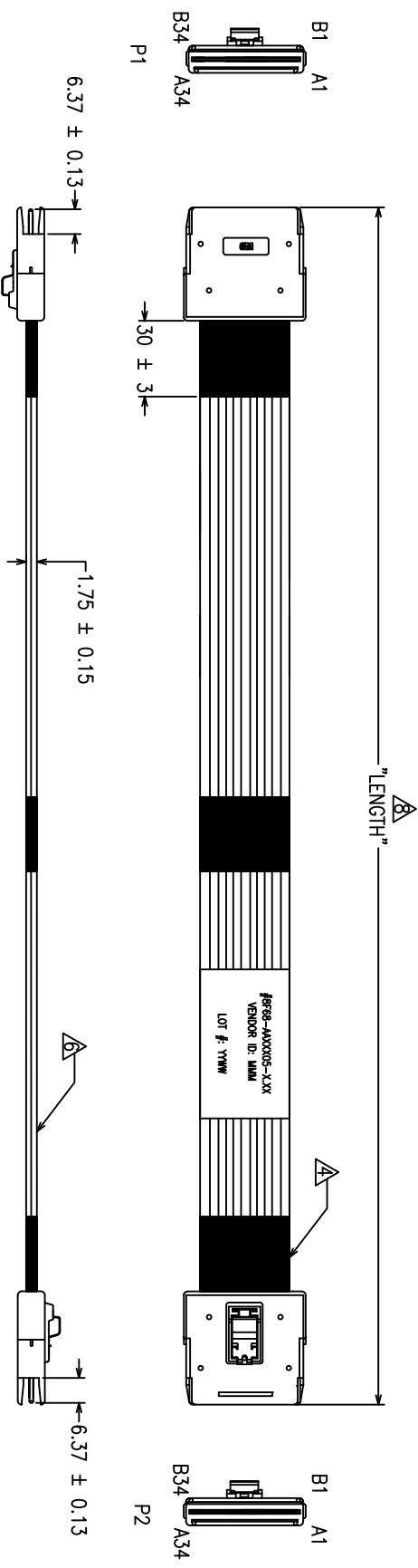


3M™ HIGH ROUTABILITY INTERNAL MINISAS CABLE ASSEMBLY, 8F68 SERIES

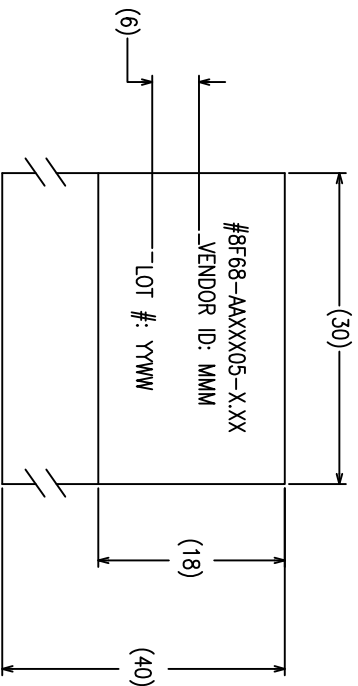
| REVISION RECORD | | |
|-----------------|--------------------|----------|
| REV. | ECR/ECN/ECO NUMBER | DATE |
| A | ECO-0037298 | 04/11/11 |
| B | ECO-0037543 | 18/11/11 |



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

CABLE USED
 PINOUT (SEE PINOUTS ON SHEET 2)
 LENGTH IN METERS

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.



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

| | | | | | | | | | | | |
|--|---|--------------|------|----------|----------------------------|--|----------------|---------|--|-----|--------|
| UNIT: MM | DFG | KOK HOE LEE | DATE | 18/11/11 | APAC INNOVATION CENTRE | DIVISION | ESD | STATUS | RELEASED | | |
| GEN. TOLERANCES | CHKD | YUNIONG QIAO | DATE | 18/11/11 | | MODEL | | | | | |
| LINEAR 0 = ±0.25 .00 = ±0.15 .000 = ±0.05 | APPL | SAJUT BANDHU | DATE | 18/11/11 | TITLE | CABLE ASSEMBLY INTERNAL 68P MINISAS RIBBON TWINAX | | | | | |
| ANGLE ±1° | THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M. IT IS UNLAWFUL TO REPRODUCE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M. | | | | SIZE | DRAWING NO. | 78-5100-2450-4 | | REV | B | |
| PROJECTION | INTERPRET PER ASME Y14.5M-1994 | | | | SCALE | NTS | | DET LST | <input type="checkbox"/> YES <input type="checkbox"/> NO | SHT | 1 of 2 |
| CRITICAL DIMENSION: ▲ | | | | | | | | | | | |

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

| REVISION RECORD | |
|-----------------|-------------------------|
| REV. | ECR/EGN/ECO NUMBER DATE |
| | REFER TO SH1 1 OF 2 |

BACKPLANE-TO-CONTROLLER
PINOUT 1

| P1 | P2 | P1 | P2 |
|-----------------------|-----------------------|-----------------------|-----------------------|
| A1 GND | B1 GND | B1 GND | A1 GND |
| A2 R _x 0+ | B2 I _x 0+ | B2 I _x 0+ | A2 R _x 0+ |
| A3 R _x 0- | B3 I _x 0- | B3 I _x 0- | A3 R _x 0- |
| A4 GND | B4 GND | B4 GND | A4 GND |
| A5 R _x 1+ | B5 I _x 1+ | B5 I _x 1+ | A5 R _x 1+ |
| A6 R _x 1- | B6 I _x 1- | B6 I _x 1- | A6 R _x 1- |
| A7 GND | B7 GND | B7 GND | A7 GND |
| A8 R _x 2+ | B8 I _x 2+ | B8 I _x 2+ | A8 R _x 2+ |
| A9 R _x 2- | B9 I _x 2- | B9 I _x 2- | A9 R _x 2- |
| A10 GND | B10 GND | B10 GND | A10 GND |
| A11 R _x 3+ | B11 I _x 3+ | B11 I _x 3+ | A11 R _x 3+ |
| A12 R _x 3- | B12 I _x 3- | B12 I _x 3- | A12 R _x 3- |
| A13 GND | B13 GND | B13 GND | A13 GND |
| A14 SIDEBAND | B14 SIDEBAND | B14 SIDEBAND | A14 SIDEBAND |
| A15 SIDEBAND | B15 SIDEBAND | B15 SIDEBAND | A15 SIDEBAND |
| A16 SIDEBAND | B16 SIDEBAND | B16 SIDEBAND | A16 SIDEBAND |
| A17 SIDEBAND | B17 SIDEBAND | B17 SIDEBAND | A17 SIDEBAND |
| A18 SIDEBAND | B18 SIDEBAND | B18 SIDEBAND | A18 SIDEBAND |
| A19 SIDEBAND | B19 SIDEBAND | B19 SIDEBAND | A19 SIDEBAND |
| A20 SIDEBAND | B20 SIDEBAND | B20 SIDEBAND | A20 SIDEBAND |
| A21 SIDEBAND | B21 SIDEBAND | B21 SIDEBAND | A21 SIDEBAND |
| A22 GND | B22 GND | B22 GND | A22 GND |
| A23 R _x 4+ | B23 I _x 4+ | B23 I _x 4+ | A23 R _x 4+ |
| A24 R _x 4- | B24 I _x 4- | B24 I _x 4- | A24 R _x 4- |
| A25 GND | B25 GND | B25 GND | A25 GND |
| A26 R _x 5+ | B26 I _x 5+ | B26 I _x 5+ | A26 R _x 5+ |
| A27 R _x 5- | B27 I _x 5- | B27 I _x 5- | A27 R _x 5- |
| A28 GND | B28 GND | B28 GND | A28 GND |
| A29 R _x 6+ | B29 I _x 6+ | B29 I _x 6+ | A29 R _x 6+ |
| A30 R _x 6- | B30 I _x 6- | B30 I _x 6- | A30 R _x 6- |
| A31 GND | B31 GND | B31 GND | A31 GND |
| A32 R _x 7+ | B32 I _x 7+ | B32 I _x 7+ | A32 R _x 7+ |
| A33 R _x 7- | B33 I _x 7- | B33 I _x 7- | A33 R _x 7- |
| A34 GND | B34 GND | B34 GND | A34 GND |

BACKPLANE-TO-CONTROLLER (NO SIDEBANDS)
PINOUT 3

| P1 | P2 | P1 | P2 |
|-----------------------|-----------------------|-----------------------|-----------------------|
| A1 GND | B1 GND | B1 GND | A1 GND |
| A2 R _x 0+ | B2 I _x 0+ | B2 I _x 0+ | A2 R _x 0+ |
| A3 R _x 0- | B3 I _x 0- | B3 I _x 0- | A3 R _x 0- |
| A4 GND | B4 GND | B4 GND | A4 GND |
| A5 R _x 1+ | B5 I _x 1+ | B5 I _x 1+ | A5 R _x 1+ |
| A6 R _x 1- | B6 I _x 1- | B6 I _x 1- | A6 R _x 1- |
| A7 GND | B7 GND | B7 GND | A7 GND |
| A8 R _x 2+ | B8 I _x 2+ | B8 I _x 2+ | A8 R _x 2+ |
| A9 R _x 2- | B9 I _x 2- | B9 I _x 2- | A9 R _x 2- |
| A10 GND | B10 GND | B10 GND | A10 GND |
| A11 R _x 3+ | B11 I _x 3+ | B11 I _x 3+ | A11 R _x 3+ |
| A12 R _x 3- | B12 I _x 3- | B12 I _x 3- | A12 R _x 3- |
| A13 GND | B13 GND | B13 GND | A13 GND |
| A14 SIDEBAND | B14 SIDEBAND | B14 SIDEBAND | A14 SIDEBAND |
| A15 SIDEBAND | B15 SIDEBAND | B15 SIDEBAND | A15 SIDEBAND |
| A16 SIDEBAND | B16 SIDEBAND | B16 SIDEBAND | A16 SIDEBAND |
| A17 SIDEBAND | B17 SIDEBAND | B17 SIDEBAND | A17 SIDEBAND |
| A18 SIDEBAND | B18 SIDEBAND | B18 SIDEBAND | A18 SIDEBAND |
| A19 SIDEBAND | B19 SIDEBAND | B19 SIDEBAND | A19 SIDEBAND |
| A20 SIDEBAND | B20 SIDEBAND | B20 SIDEBAND | A20 SIDEBAND |
| A21 SIDEBAND | B21 SIDEBAND | B21 SIDEBAND | A21 SIDEBAND |
| A22 GND | B22 GND | B22 GND | A22 GND |
| A23 R _x 4+ | B23 I _x 4+ | B23 I _x 4+ | A23 R _x 4+ |
| A24 R _x 4- | B24 I _x 4- | B24 I _x 4- | A24 R _x 4- |
| A25 GND | B25 GND | B25 GND | A25 GND |
| A26 R _x 5+ | B26 I _x 5+ | B26 I _x 5+ | A26 R _x 5+ |
| A27 R _x 5- | B27 I _x 5- | B27 I _x 5- | A27 R _x 5- |
| A28 GND | B28 GND | B28 GND | A28 GND |
| A29 R _x 6+ | B29 I _x 6+ | B29 I _x 6+ | A29 R _x 6+ |
| A30 R _x 6- | B30 I _x 6- | B30 I _x 6- | A30 R _x 6- |
| A31 GND | B31 GND | B31 GND | A31 GND |
| A32 R _x 7+ | B32 I _x 7+ | B32 I _x 7+ | A32 R _x 7+ |
| A33 R _x 7- | B33 I _x 7- | B33 I _x 7- | A33 R _x 7- |
| A34 GND | B34 GND | B34 GND | A34 GND |

- NOTES:
- A1, A4, A7, A10, A13, A22, A25, A28, A29, 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.
 - A14-A21 AND B14-B21 HAVE NO CONNECTIONS TO CABLE.

- NOTE:
- 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.

- NOTES:
- ROHS COMPLIANT. SEE REGULATORY INFORMATION APPENDIX IN "ROHS COMPLIANCE" SECTION AT [WWW.3M.COM/INTERCONNECT](http://www.3m.com/interconnect) (E1 & C1 APPLY)
 - PADDELCARD PLATING: 30U" MIN. GOLD PLATING
50U" MIN. NICKEL UNDERPLATING
 - MINISAS CABLE PLUG DIMENSIONS SHALL CONFORM WITH SFF-8086 AND SFF-8087 STANDARDS.
MEETS SFF-8086 STANDARD, ELECTRICAL VOLTAGE: 30V /CONTACT
- △ CLOTH TAPE WRAPPED AROUND CABLE RIBBONS AT BACK OF EACH CONNECTOR. ALSO, UP TO 2 ADDITIONAL TAPE PIECES WILL BE WRAPPED AROUND THE TWO CABLE RIBBONS SPACED EQUIDISTANT FROM THE CONNECTOR ENDS, AND EACH OTHER, DEPENDING ON ASSY LENGTH A:
- A <= 200MM NO ADDITIONAL TAPE
200MM < A <= 600MM 1 TAPE WRAP
600MM < A <= 1000MM 2 TAPE WRAPS
- ▽ 5. PRODUCT DATA SHEET: 78-5102-0113-6
- △ 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

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

| | | | | |
|---|---|--------------|----------|----------|
| UNIT: MM | DFLG | KOK HOE LEE | DATE | 18/11/11 |
| GEN. TOLERANCES | CHKD | YUNLONG QIAO | DATE | 18/11/11 |
| LINER 0 = ±0.25 .00 = ±0.15 .000 = ±0.05 | APPL | SAJIT BANDHU | DATE | 18/11/11 |
| ANGLE ±1° | THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION. IT IS THE PROPERTY OF 3M AND IS NOT TO BE REPRODUCED OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M. | | | |
| PROJECTION | INTERPRET PER ASME Y14.5M-1994 | | | |
| CRITICAL DIMENSION: ▲ | | | | |
| SCALE: NTS | TITLE | | STATUS | |
| A3 | CABLE ASSEMBLY INTERNAL 68P MINISAS RIBBON TWINAX | | RELEASED | |
| DRAWING NO. 78-5100-2450-4 | DET LST | | YES | NO |
| | SHT 2 | | 2 OF 2 | |
| | REV | | B | |