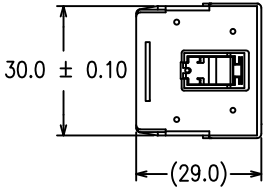
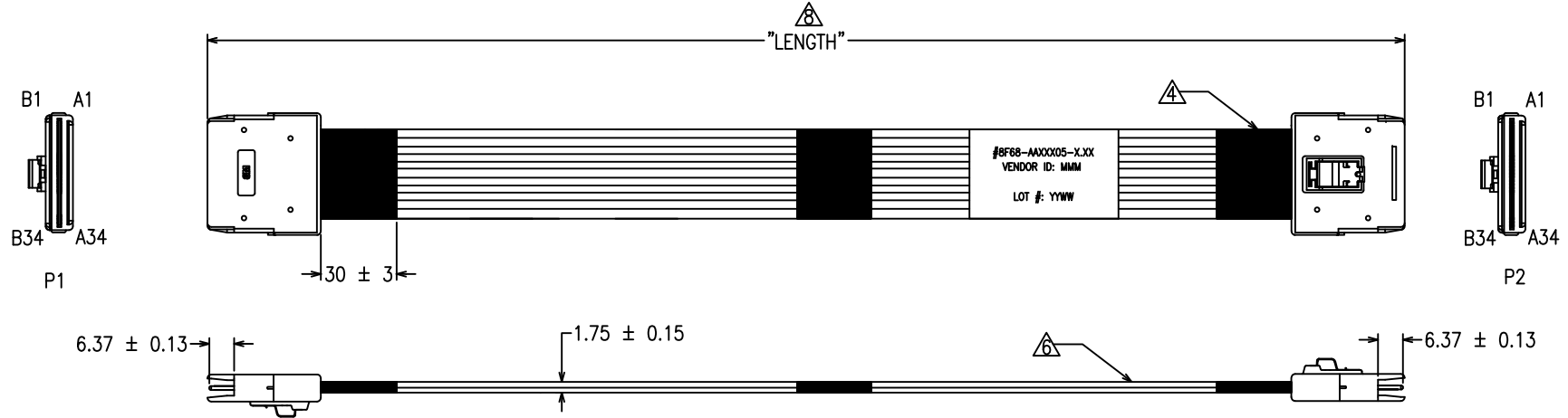


3M™ HIGH ROUTABILITY INTERNAL MINISAS CABLE ASSEMBLY, 8F68 SERIES

| 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

LENGTH IN METERS

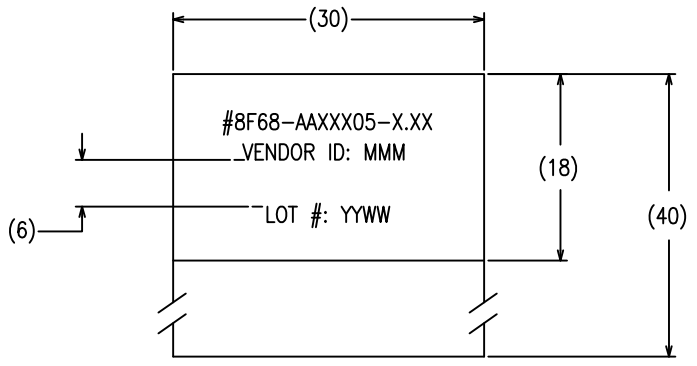
PINOUT (SEE PINOUTS ON SHEET 2)

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 | DFTG KOK HOE LEE | DATE 18/11/11 | | DIVISION ESD | STATUS RELEASED |
| GEN. TOLERANCES | CHKD YUNLONG QIAO | DATE 18/11/11 | | MODEL | |
| LINEAR .0 = ±0.25 .00 = ±0.15 .000 = ±0.05 | APPVL SAUJIT BANDHU | DATE 18/11/11 | TITLE CABLE ASSEMBLY INTERNAL 68P MINISAS RIBBON TWINAX | | |
| ANGLE ±1° | THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO 3M COMPANY. NO REPRODUCTION OR PUBLICATION OF THIS DOCUMENT, IN WHOLE OR IN PART, SHALL BE MADE WITHOUT AUTHORIZATION FROM 3M. | | SIZE A3 | DRAWING NO. 78-5100-2450-4 | REV B |
| PROJECTION | INTERPRET PER ASME Y14.5M-1994 | | SCALE : NTS | | |
| CRITICAL DIMENSION: ▲ | | | DET LIST <input type="checkbox"/> YES <input type="checkbox"/> NO | | SHT 1 of 2 |

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

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

PINOUT 1
BACKPLANE-TO-CONTROLLER

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

PINOUT 3
BACKPLANE-TO-CONTROLLER (NO SIDEBANDS)

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

- NOTES:
- ROHS COMPLIANT. SEE REGULATORY INFORMATION APPENDIX IN "ROHS COMPLIANCE" SECTION AT WWW.3M.COM/INTERCONNECT (E1 & C1 APPLY)
 - PADDCARD 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 |
 - PRODUCT DATA SHEET: 78-5102-0113-6
 - FOUR RIBBONS OF 3M RIBBON TWIN AXIAL CABLE
 - 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 PADDCARD GROUND PLANES.

- NOTES:
- 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 PADDCARD GROUND PLANES.
 - A14-A21 AND B14-B21 HAVE NO CONNECTIONS TO CABLE.

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

| | | | | | |
|---|---|---------------|--|---|-----------------|
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| PROJECTION | INTERPRET PER ASME Y14.5M-1994 | | SCALE : NTS | DET LIST <input type="checkbox"/> YES <input type="checkbox"/> NO | SHT 2 of 2 |
| | CRITICAL DIMENSION: ▲ | | | | |