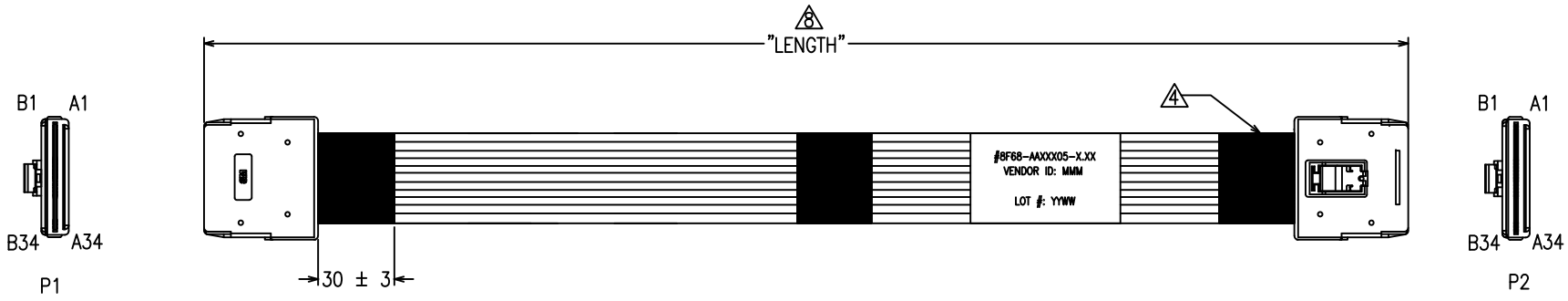
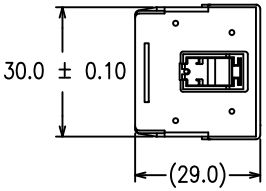
3M™ HIGH ROUTABILITY INTERNAL MINISAS CABLE ASSEMBLY, 8F68 SERIES

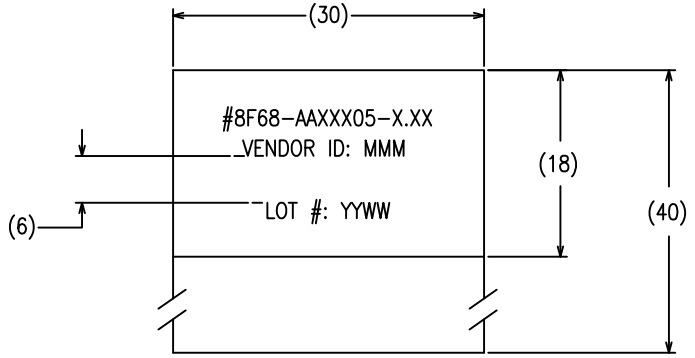
REVISION RECORD		
REV.	ECR/ECN/ECO NUMBER	DATE
A	ECO-0037298	04/11/11
B	ECO-0037543	18/11/11





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	3M APAC INNOVATION CENTRE	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°			SIZE A3	DRAWING NO. 78-5100-2450-4	REV B
PROJECTION	INTERPRET PER ASME Y14.5M-1994		SCALE : NTS	DET LIST ☐YES ☐NO	SHT 1 of 2
	CRITICAL DIMENSION: ▲				

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

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

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 PADDLECARD GROUND PLANES.

PINOUT 3

BACKPLANE–TO–CONTROLLER (NO SIDEBANDS)

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

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

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 PADDLECARD GROUND PLANES.
2. A14–A21 AND B14–B21 HAVE NO CONNECTIONS TO CABLE.

NOTES:
1. ROHS COMPLIANT. SEE REGULATORY INFORMATION APPENDIX IN "ROHS COMPLIANCE" SECTION AT WWW.3M.COM/INTERCONNECT (E1 & C1 APPLY)

2. PADDLECARD PLATING: 30u" MIN. GOLD PLATING
   50u" MIN. NICKEL UNDERPLATING

3. MINISAS CABLE PLUG DIMENSIONS SHALL CONFORM WITH SFF–8086 AND SFF–8087 STANDARDS.
   MEETS SFF–8086 STANDARD, ELECTRICAL VOLTAGE: 30V /CONTACT

4. 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

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.

8. LENGTH TOLERANCE:
   ± 10MM FOR LENGTH <=0.5 METER
   ± 15MM FOR LENGTH >0.5 METER

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UNIT: MM	DFTG KOK HOE LEE	DATE 18/11/11	3M APAC INNOVATION CENTRE
GEN. TOLERANCES	CHKD YUNLONG QIAO	DATE 18/11/11	
LINEAR .0 = ±0.25, .00 = ±0.15, .000= ±0.05	APPVL SAUJIT BANDHU	DATE 18/11/11	
ANGLE ±1°			
PROJECTION	INTERPRET PER ASME Y14.5M–1994		
	CRITICAL DIMENSION: ▲		

DIVISION ESD	STATUS RELEASED		
MODEL ——			
TITLE: CABLE ASSEMBLY INTERNAL 68P MINISAS RIBBON TWINAX			
SIZE A3	DRAWING NO. 78–5100–2450–4	REV B	
SCALE : NTS	DET LIST ☐YES ☐NO	SHT 2 of 2	