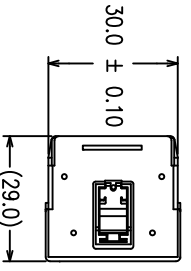
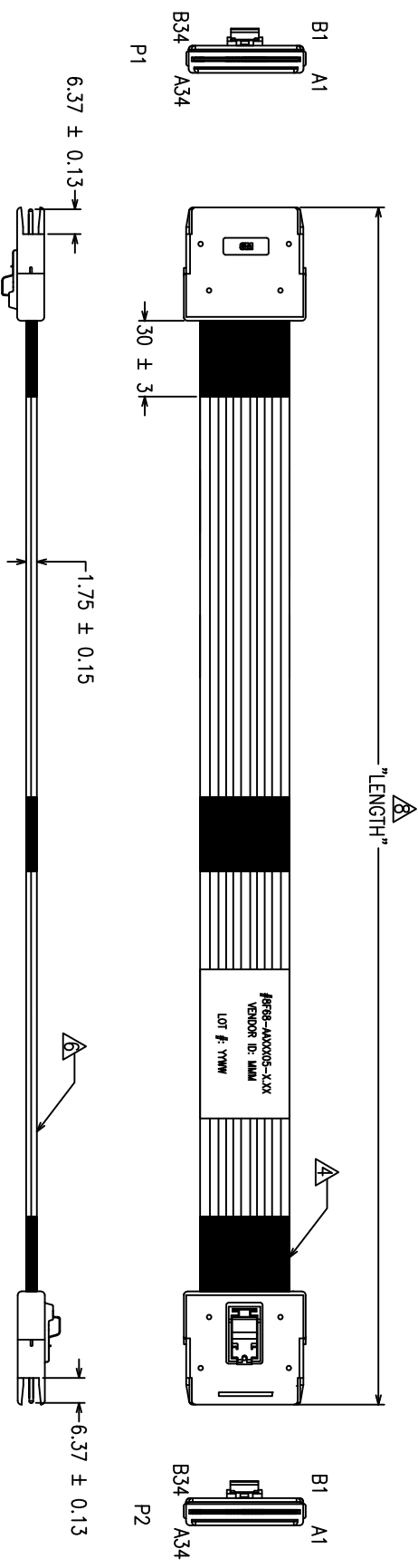


3M™ HIGH ROUTABILITY INTERNAL MINISAS CABLE ASSEMBLY, 8F68 SERIES

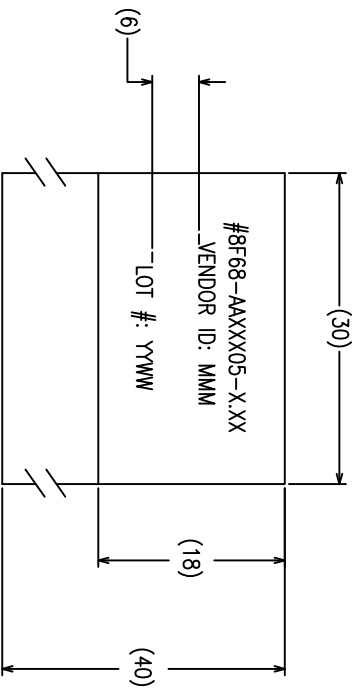
REVISION RECORD		
REV.	ECR/ECN/ECO NUMBER	DATE
A	ECO-0037298	04/11/11
B	ECO-0037543	18/11/11



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.



#8F68-AAxxxx05-X.XX  
 VENDOR ID: MMM  
 LOT #: YYWW

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UNIT: MM	DFG	KOK HOE LEE	DATE	18/11/11	 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 ANGLE ±1°	APPL	SAJIT BANDHU	DATE	18/11/11		TITLE	CABLE ASSEMBLY INTERNAL 68P MINISAS RIBBON TWINAX			
PROJECTION	INTERPRET PER ASME Y14.5M-1994				SCALE : NTS	DRAWING NO.	78-5100-2450-4		REV	B
CRITICAL DIMENSION: ▲					DET LST		<input type="checkbox"/> YES	<input type="checkbox"/> NO	SHT	1 of 2

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

REVISION RECORD	
REV.	ECR/ECN/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 <sub>x</sub> 0+	B2 I <sub>x</sub> 0+	B2 I <sub>x</sub> 0+	A2 R <sub>x</sub> 0+
A3 R <sub>x</sub> 0-	B3 I <sub>x</sub> 0-	B3 I <sub>x</sub> 0-	A3 R <sub>x</sub> 0-
A4 GND	B4 GND	B4 GND	A4 GND
A5 R <sub>x</sub> 1+	B5 I <sub>x</sub> 1+	B5 I <sub>x</sub> 1+	A5 R <sub>x</sub> 1+
A6 R <sub>x</sub> 1-	B6 I <sub>x</sub> 1-	B6 I <sub>x</sub> 1-	A6 R <sub>x</sub> 1-
A7 GND	B7 GND	B7 GND	A7 GND
A8 R <sub>x</sub> 2+	B8 I <sub>x</sub> 2+	B8 I <sub>x</sub> 2+	A8 R <sub>x</sub> 2+
A9 R <sub>x</sub> 2-	B9 I <sub>x</sub> 2-	B9 I <sub>x</sub> 2-	A9 R <sub>x</sub> 2-
A10 GND	B10 GND	B10 GND	A10 GND
A11 R <sub>x</sub> 3+	B11 I <sub>x</sub> 3+	B11 I <sub>x</sub> 3+	A11 R <sub>x</sub> 3+
A12 R <sub>x</sub> 3-	B12 I <sub>x</sub> 3-	B12 I <sub>x</sub> 3-	A12 R <sub>x</sub> 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 <sub>x</sub> 4+	B23 I <sub>x</sub> 4+	B23 I <sub>x</sub> 4+	A23 R <sub>x</sub> 4+
A24 R <sub>x</sub> 4-	B24 I <sub>x</sub> 4-	B24 I <sub>x</sub> 4-	A24 R <sub>x</sub> 4-
A25 GND	B25 GND	B25 GND	A25 GND
A26 R <sub>x</sub> 5+	B26 I <sub>x</sub> 5+	B26 I <sub>x</sub> 5+	A26 R <sub>x</sub> 5+
A27 R <sub>x</sub> 5-	B27 I <sub>x</sub> 5-	B27 I <sub>x</sub> 5-	A27 R <sub>x</sub> 5-
A28 GND	B28 GND	B28 GND	A28 GND
A29 R <sub>x</sub> 6+	B29 I <sub>x</sub> 6+	B29 I <sub>x</sub> 6+	A29 R <sub>x</sub> 6+
A30 R <sub>x</sub> 6-	B30 I <sub>x</sub> 6-	B30 I <sub>x</sub> 6-	A30 R <sub>x</sub> 6-
A31 GND	B31 GND	B31 GND	A31 GND
A32 R <sub>x</sub> 7+	B32 I <sub>x</sub> 7+	B32 I <sub>x</sub> 7+	A32 R <sub>x</sub> 7+
A33 R <sub>x</sub> 7-	B33 I <sub>x</sub> 7-	B33 I <sub>x</sub> 7-	A33 R <sub>x</sub> 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 <sub>x</sub> 0+	B2 I <sub>x</sub> 0+	B2 I <sub>x</sub> 0+	A2 R <sub>x</sub> 0+
A3 R <sub>x</sub> 0-	B3 I <sub>x</sub> 0-	B3 I <sub>x</sub> 0-	A3 R <sub>x</sub> 0-
A4 GND	B4 GND	B4 GND	A4 GND
A5 R <sub>x</sub> 1+	B5 I <sub>x</sub> 1+	B5 I <sub>x</sub> 1+	A5 R <sub>x</sub> 1+
A6 R <sub>x</sub> 1-	B6 I <sub>x</sub> 1-	B6 I <sub>x</sub> 1-	A6 R <sub>x</sub> 1-
A7 GND	B7 GND	B7 GND	A7 GND
A8 R <sub>x</sub> 2+	B8 I <sub>x</sub> 2+	B8 I <sub>x</sub> 2+	A8 R <sub>x</sub> 2+
A9 R <sub>x</sub> 2-	B9 I <sub>x</sub> 2-	B9 I <sub>x</sub> 2-	A9 R <sub>x</sub> 2-
A10 GND	B10 GND	B10 GND	A10 GND
A11 R <sub>x</sub> 3+	B11 I <sub>x</sub> 3+	B11 I <sub>x</sub> 3+	A11 R <sub>x</sub> 3+
A12 R <sub>x</sub> 3-	B12 I <sub>x</sub> 3-	B12 I <sub>x</sub> 3-	A12 R <sub>x</sub> 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 <sub>x</sub> 4+	B23 I <sub>x</sub> 4+	B23 I <sub>x</sub> 4+	A23 R <sub>x</sub> 4+
A24 R <sub>x</sub> 4-	B24 I <sub>x</sub> 4-	B24 I <sub>x</sub> 4-	A24 R <sub>x</sub> 4-
A25 GND	B25 GND	B25 GND	A25 GND
A26 R <sub>x</sub> 5+	B26 I <sub>x</sub> 5+	B26 I <sub>x</sub> 5+	A26 R <sub>x</sub> 5+
A27 R <sub>x</sub> 5-	B27 I <sub>x</sub> 5-	B27 I <sub>x</sub> 5-	A27 R <sub>x</sub> 5-
A28 GND	B28 GND	B28 GND	A28 GND
A29 R <sub>x</sub> 6+	B29 I <sub>x</sub> 6+	B29 I <sub>x</sub> 6+	A29 R <sub>x</sub> 6+
A30 R <sub>x</sub> 6-	B30 I <sub>x</sub> 6-	B30 I <sub>x</sub> 6-	A30 R <sub>x</sub> 6-
A31 GND	B31 GND	B31 GND	A31 GND
A32 R <sub>x</sub> 7+	B32 I <sub>x</sub> 7+	B32 I <sub>x</sub> 7+	A32 R <sub>x</sub> 7+
A33 R <sub>x</sub> 7-	B33 I <sub>x</sub> 7-	B33 I <sub>x</sub> 7-	A33 R <sub>x</sub> 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
- △ 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

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UNIT: MM	DFTG	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	SAUJIT 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		REV B	
DET LIST	<input type="checkbox"/> YES <input type="checkbox"/> NO		SHT 2 OF 2	