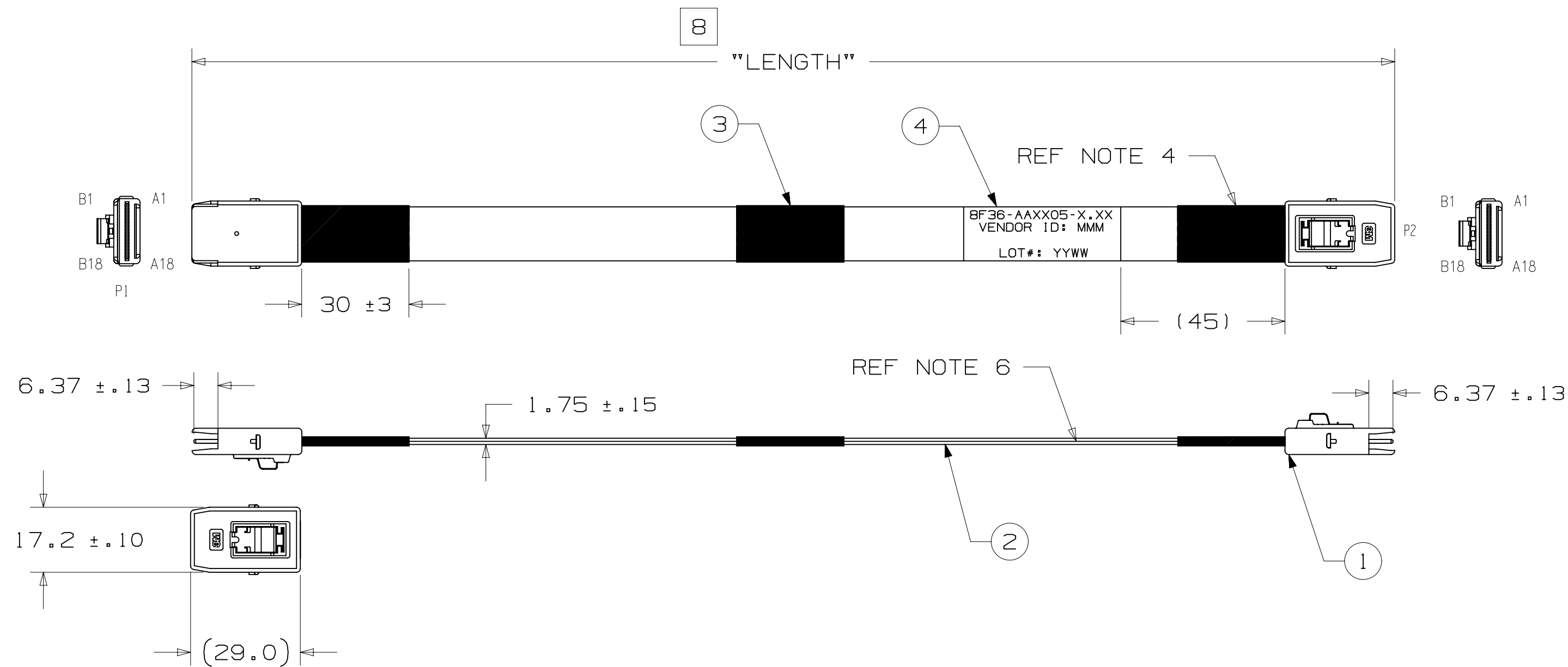


3M™ HIGH ROUTABILITY INTERNAL MINISAS CABLE ASSEMBLY, 8F36 SERIES



- NOTES
1. ROHS COMPLIANT. SEE REGULATORY INFORMATION APPENDIX IN "ROHS COMPLIANCE" SECTION AT WWW.3M.COM/INTERCONNECT. (E1 & C1 APPLY).
 2. PADDLECARD PLATING:
30μ" MIN. GOLD PLATING
50μ" MIN. NICKEL UNDERPLATING.
CABLE A & B : 78-9101-1588-6.
CABLE C & D : 78-9101-0933-5.
 3. MINISAS CABLE PLUG DIMENSIONS SHALL CONFORM WITH SFF-8086 AND SFF-8087 STANDARDS.
 4. CLOTH TAPE WRAPPED AROUND CABLE RIBBONS AT BACK OF EACH CONNECTOR. ALSO, UP TO TWO ADDITIONAL TAPE PIECES WILL BE WRAPPED AROUND THE TWO CABLE RIBBONS SPACED EQUIDISTANT FROM THE CONNECTOR ENDS AND EACH OTHER, DEPENDING ON ASS'Y LENGTH (L):
L ≤ 0.2M: NO ADDITIONAL TAPE
0.2M < L ≤ 0.6M: 1 TAPE WRAP
0.6M < L ≤ 1.0M: 2 TAPE WRAP
 5. PRODUCT SPECIFICATION: #PS-0082.
 6. TWO RIBBONS OF 3M RIBBON TWIN AXIAL CABLE.
 7. THIS CABLE CONSTRUCTION HAS A THIN ALUMINUM LAYER AT EACH EDGE USER SHOULD EVALUATE ITS USE IN THEIR APPLICATION AND, IF NECESSARY, INSULATING TAPE MAY BE APPLIED TO COVER THE ALUMINUM LAYER, AS USER DEEMS APPROPRIATE.
 8. LENGTH TOLERANCE:
±10MM FOR LENGTH ≤ 0.5 METERS
±15MM FOR LENGTH > 0.5 METERS.

8 F 36 - AA X X 05 - X.XX

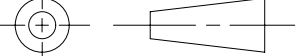
LENGTH IN METERS

PINOUT (SEE PINOUTS ON SHEET 2)

CABLE USED

A 4-LANE WITH SIDEBANDS,	SN-PLATED SIGNAL,CABLE P/N SL8801/12-11DA5-00
B 4-LANE WITH SIDEBANDS,	AG-PLATED SIGNAL,CABLE P/N SL8801/12-10DA5-00
C 4-LANE NO SIDEBANDS,	SN-PLATED SIGNAL,CABLE P/N SL8802/08-21DN5-00
D 4-LANE NO SIDEBANDS,	AG-PLATED SIGNAL,CABLE P/N SL8802/08-20DN5-00

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

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
DISTRIBUTION CODES				DRFT	RAO VITTAPALLI	DATE JUN 06,2012	MFG MING KHIANG	DATE JUN 06,2012
				CHKD	MARK LETTANG	DATE JUN 06,2012	APPVL ALAN ANG	DATE JUN 06,2012
DIVISION		DIVISION CODE		3M 3M Center St. Paul, MN 55144 © 3M COPYRIGHT 2013 This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.				
Interconnect Solutions		ISD						
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		TITLE CABLE ASSEMBLY INTERNAL 36P MINISAS RIBBON TWINAX		
								
THIRD ANGLE PROJECTION		INCHES						
INTERPRET PER ASME Y14.5 - 1994		MILLIMETERS						
MAX SURFACE ROUGHNESS				CAGE NUMBER		SIZE	DRAWING NO.	REV.
☐ ALL SURFACES				C			78-5100-2363-9	C
☒ MARKED ONLY		ANGLES		MODEL			DET. LISTS ☐ YES ☒ NO	
							SHT 1 OF 2	

78-5100-2363-9
DRAWING NUMBER

B

A

3M™ HIGH ROUTABILITY INTERNAL MINISAS CABLE ASSEMBLY, 8F36 SERIES

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	SIDEBAND	B8	SIDEBAND
A9	SIDEBAND	B9	SIDEBAND
A10	SIDEBAND	B10	SIDEBAND
A11	SIDEBAND	B11	SIDEBAND
A12	GND	B12	GND
A13	Rx 2+	B13	Tx 2+
A14	Rx 2-	B14	Tx 2-
A15	GND	B15	GND
A16	Rx 3+	B16	Tx 3+
A17	Rx 3-	B17	Tx 3-
A18	GND	B18	GND

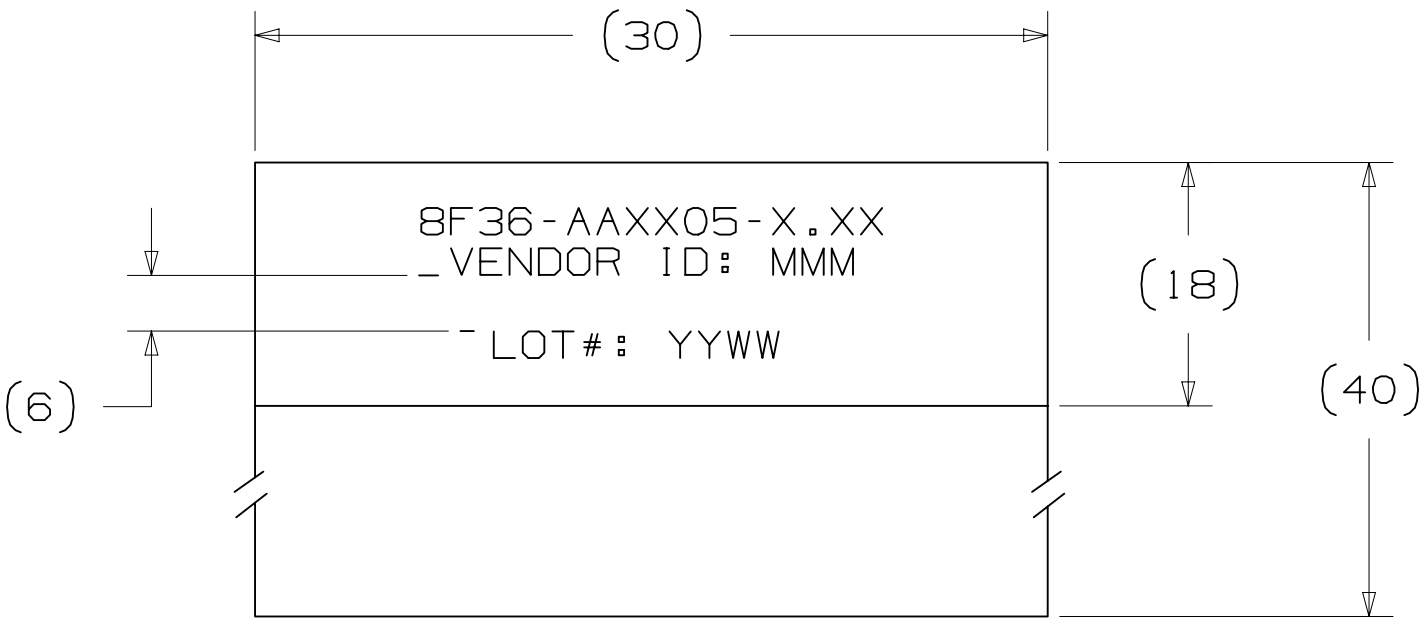
NOTE:
1. A1, A4, A7, A12, A15, A18, B1, B4, B7, B12, B15 AND B18 ARE ALL REFERENCE GROUNDS AND ARE SHORTED TOGETHER THROUGH THE PADDLECARD GROUND PLANES.

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
A12	GND	B12	GND
A13	Rx 2+	B13	Tx 2+
A14	Rx 2-	B14	Tx 2-
A15	GND	B15	GND
A16	Rx 3+	B16	Tx 3+
A17	Rx 3-	B17	Tx 3-
A18	GND	B18	GND

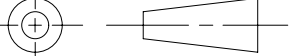
P1		P2	
B1	GND	A1	GND
B2	Tx 0+	A2	Rx 0+
B3	Tx 0-	A3	Rx 0-
B4	GND	A4	GND
B5	Tx 1+	A5	Rx 1+
B6	Tx 1-	A6	Rx 1-
B7	GND	A7	GND
B12	GND	A12	GND
B13	Tx 2+	A13	Rx 2+
B14	Tx 2-	A14	Rx 2-
B15	GND	A15	GND
B16	Tx 3+	A16	Rx 3+
B17	Tx 3-	A17	Rx 3-
B18	GND	A18	GND

NOTE:
1. A1, A4, A7, A12, A15, A18, B1, B4, B7, B12, B15 AND B18 ARE ALL REFERENCE GROUNDS AND ARE SHORTED TOGETHER THROUGH THE PADDLECARD GROUND PLANES.
2. A8-A11 AND B8-B11 HAVE NO CONNECTIONS TO CABLE.



4	LABEL 30X40MM	1X
3	ACETATE TAPE	AS REQUIRED
2	CABLE RIBBON TWINAX , 150V ,80 C 30AWG AG/SN PLATED. REFER TO SHEET 1 FOR SELECTION.	AS PER LENGTH
1	36 PIN MINISAS CONNECTOR, PCB FR4, OVERMOULD -PBT 30% GF, LATCH -STAINLESS STEEL.	2X
ITEM	SPECIFICATION	QUANTITY

C	43801	OCT 12,2012 CHANGE TO SOLID DRAIN WIRE.	RAO	MARK
B	37070	OCT 25,2011 ADD LENGTH TOLERANCE	JNC	ML
A	30167	AUG 09,2010 RELEASED	ML	ML

DESIGN REFERENCE				NEXT ASSEMBLY				REV				ECO				ISSUE DATE AND DESCRIPTION				DRFT		CHKD									
DISTRIBUTION CODES								DRFT				RAO VITTAPALLI				DATE				JUN 06,2012				MFG		MING KHIANG		DATE		JUN 06,2012	
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MAX SURFACE ROUGHNESS								.0 ± .00 ± .000 ±																							
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☒ MARKED ONLY								ANGLES																							
								MODEL								DET. LISTS								☐ YES ☒ NO				SHT 2 OF 2			