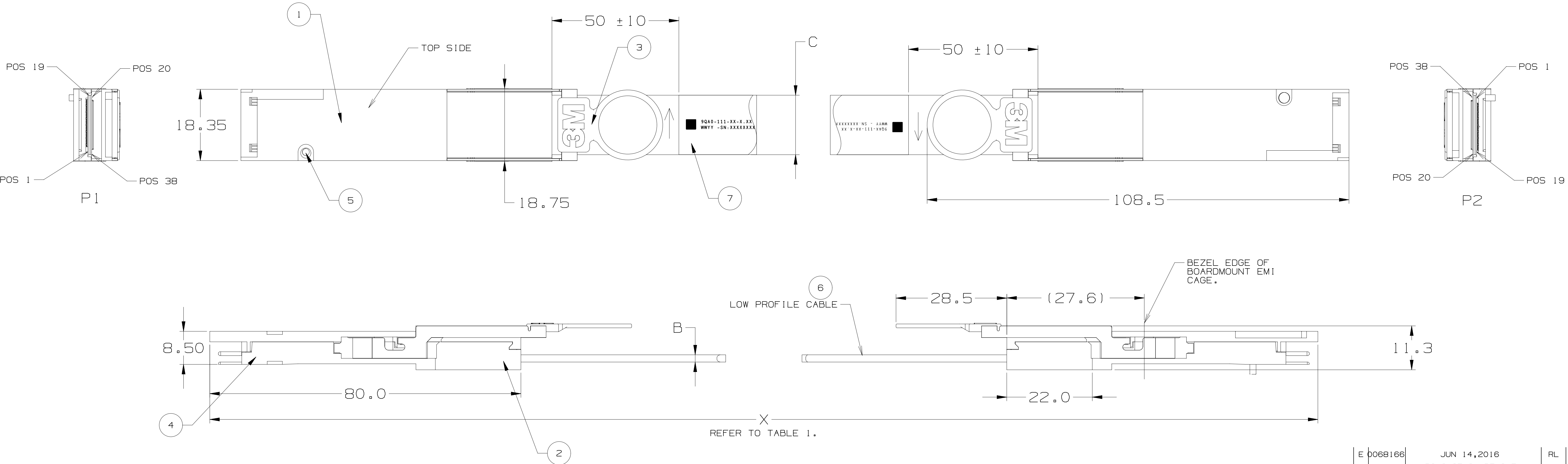




STANDARD PRODUCT LABEL DESCRIPTION
(CUSTOM AVAILABLE UPON REQUEST)

7	PRODUCT LABEL	2
6	3M™ LOW PROFILE TWIN AXIAL CABLE	1
5	RIVET	2
4	PADDLE CARD	2
3	LATCH WITH PULL TAB	2
2	BOTTOM SHELL	2
1	UPPER SHELL	2
BALLOON ITEM	DESCRIPTION	QTY

DESIGN REFERENCE	NEXT ASSEMBLY
DO NOT SCALE DRAWING	SCALE 2/1
THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED
INTERPRET PER ASME Y14.5 - 2009	INCHES
MAX SURFACE ROUGHNESS	MILLIMETERS
125/	0 ± .2
ALL SURFACES	.00 ± .10
MARKED ONLY	.000 ±
ANGLES ±0.5°	

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
OH	KIM CHYE	SEP 09,2011	UG LIU	DATE SEP 09,2011
CHKD	ROY LIM	SEP 09,2011	SAJIT B	DATE SEP 09,2011
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3M Center St. Paul, MN 55144				
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TITLE				
3M™ DIRECT ATTACH COPPER QSFP+ QDR/DDR CABLE ASSY SALES DWG				
CAGE NUMBER	SIZE	DRAWING NO.	REV.	
D	78-5100-2439-7	E		
MODEL	DET	LISTS	YES	NO
SHT 1 OF 2				

8

7

6

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4

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2

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3M™ CABLE ASSEMBLIES FOR QSFP+ APPLICATIONS
www.3Mtwinx.com

NOTES:

1. ORDERING INFORMATION:
9QXX-111-XX-X.XX

ASSEMBLY LENGTH X IN METERS SEE TABLE 1

EEPROM MEMORY MAP
11= DDR (5Gbps)
12= QDR (10Gbps)
XX= CUSTOMIZATION(SEE 3M SALES REP)

AWG
0= 30 AWG

CABLE TYPE
A= 30AWG(PVC)

2. REFER TO TABLE 1 FOR CABLE LENGTH, WIDTH, THICKNESS AND WIRE AWG

3. MODULE PCB PINOUT PER SFF8436 SPECIFICATION

4. SFF 8436 QSFP+ MODULE HOUSING: ZINC ALLOY WITH NICKEL PLATING

5. JACKET: BLACK PVC .015" NOMINAL THICKNESS

6. CABLE UL TEMPERATURE RATING -20C TO +80C

7. FOLDING BEND RADIUS 2.5mm

8. SEE REGULATORY INFORMATION APPENDIX (RIA) AT 3Mconnectors.com
FOR RoHS COMPLIANCE INFORMATION (RIA E1 and C1 apply)

9. STANDARD PRODUCT SPECIFICATION: 78-5102-0097-1 A

10. FOR CUSTOM LENGTHS CONTACT A 3M SALES REPRESENTATIVE

TABLE 1

ORDERING INFORMATION	ASSY LENGTH=X (m)	TOLERANCE (mm)	B NOMINAL (mm)	C NOMINAL (mm)					
9QA0-111-12-0.50 *	0.50	+10 / - 0	1.95	15.5					
9QA0-111-12-0.75	0.75								
9QA0-111-12-1.00 *	1.00	+50 / - 0							
9QA0-111-12-1.10	1.10								
9QA0-111-12-1.50	1.50								
9QA0-111-12-2.00 *	2.00								
9QA0-111-12-2.50	2.50								
9QA0-111-12-3.00 *	3.00								
9QA0-111-11-3.50 **	3.50								
9QA0-111-XX-3.50									
9QA0-111-11-4.00 **	4.00	+80 / - 0							
9QA0-111-XX-4.00									
9QA0-111-11-5.00 **	5.00								
9QA0-111-XX-5.00									

WIRING LIST

P1 END		P2 END	
POS	SIGNAL	POS	SIGNAL
1	GND (TX)	20	GND (RX)
2	TX2n	21	RX2n
3	TX2P	22	RX2p
4	GND (TX)	23	GND (RX)
5	TX4n	24	RX4n
6	TX4P	25	RX4p
7	GND (TX)	26	GND (RX)
13	GND (RX)	32	GND (TX)
14	RX3p	33	TX3p
15	RX3n	34	TX3n
16	GND (RX)	35	GND (TX)
17	RX1p	36	TX1p
18	RX1n	37	TX1n
19	GND (RX)	38	GND (TX)
20	GND (RX)	1	GND (TX)
21	RX2n	2	TX2n
22	RX2p	3	TX2P
23	GND (RX)	4	GND (TX)
24	RX4n	5	TX4n
25	RX4p	6	TX4P
26	GND (RX)	7	GND (TX)
32	GND (TX)	13	GND (RX)
33	TX3p	14	RX3p
34	TX3n	15	RX3n
35	GND (TX)	16	GND (RX)
36	TX1p	17	RX1p
37	TX1n	18	RX1n
38	GND (TX)	19	GND (RX)

LOW SPEED SIGNALS

P1 & P2	
POS	SIGNAL
8	ModSelL
9	ResetL
10	VccRx
11	SCL
12	SDA
27	ModPrsL
28	IntL
29	VccTx
30	VccI
31	LPMode

E 0068166	JUN 14,2016	RL	YL
D 0044020	OCT 24,2012	OKC	RL
C 0040930	JUN 11,2012	OKC	RL
B 0037834	DEC 16,2011	OKC	RL
A 0035856	SEP 12,2011	OKC	RL

DESIGN REFERENCE

NEXT ASSEMBLY

REV ECO

ISSUE DATE AND DESCRIPTION

DRFT CHKD

DRFT OH KIM CHYE

DATE SEP 09,2011

WFO JG LIU

DATE SEP 09,2011

CHKD ROY LIM

DATE SEP 09,2011

APPR SAJIT B

DATE SEP 09,2011

DIVISION ESD

DIVISION CODE

DO NOT SCALE DRAWING

SCALE 2 1

TOLERANCES EXCEPT AS NOTED

INCHES

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2009

MILLIMETERS

MAX SURFACE ROUGHNESS 125

ALL SURFACES MARKED ONLY

ANGLES ±0.5°

3M

3M Center St. Paul, MN 55144

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TITLE 3M™ DIRECT ATTACH COPPER QSFP+ QDR/DDR CABLE ASSY SALES DWG

CAGE NUMBER D

SIZE 78-5100-2439-7

DRAWING NO.

REV. E

MODEL

DET

YES NO

SHT 2 OF 2

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78-5100-2439-7-assembly.prt

78-5100-2439-7

Revision Number

E Revision