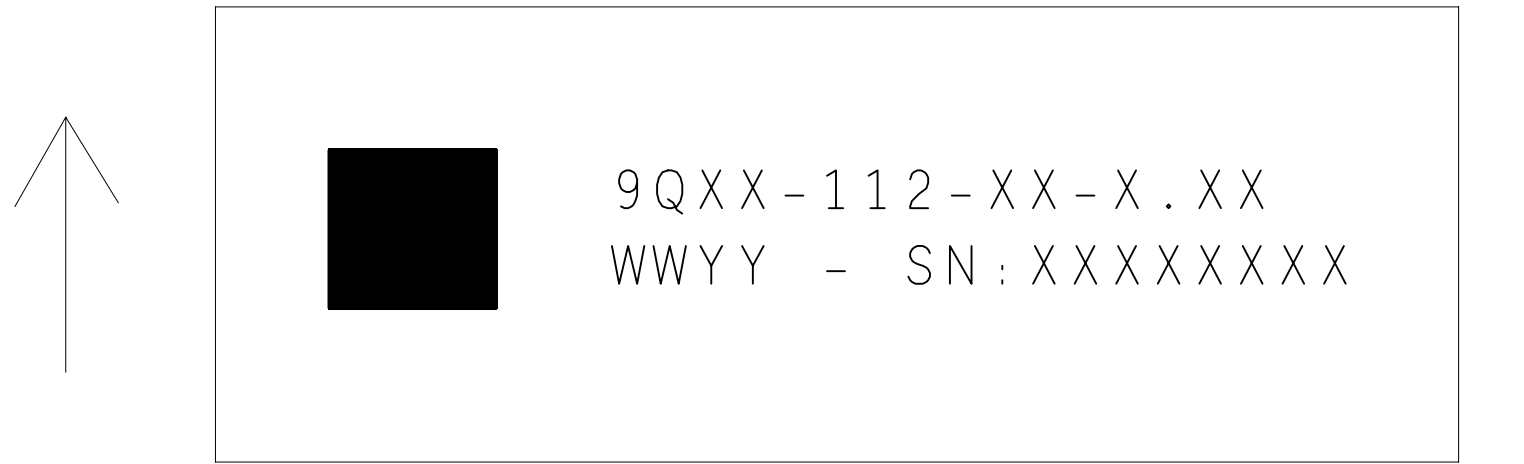
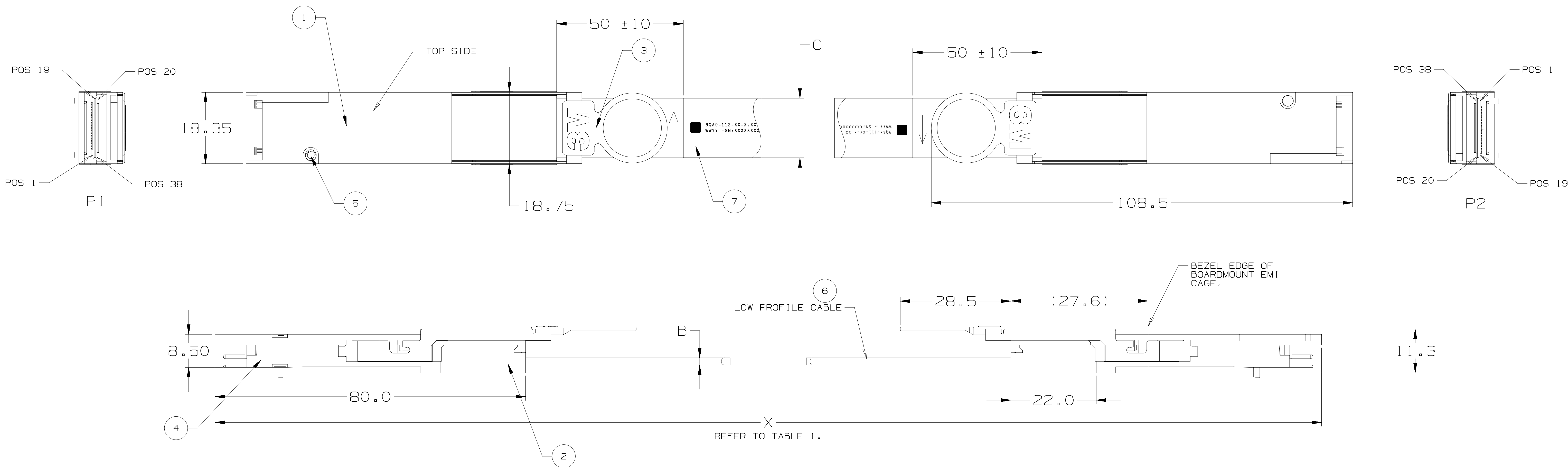
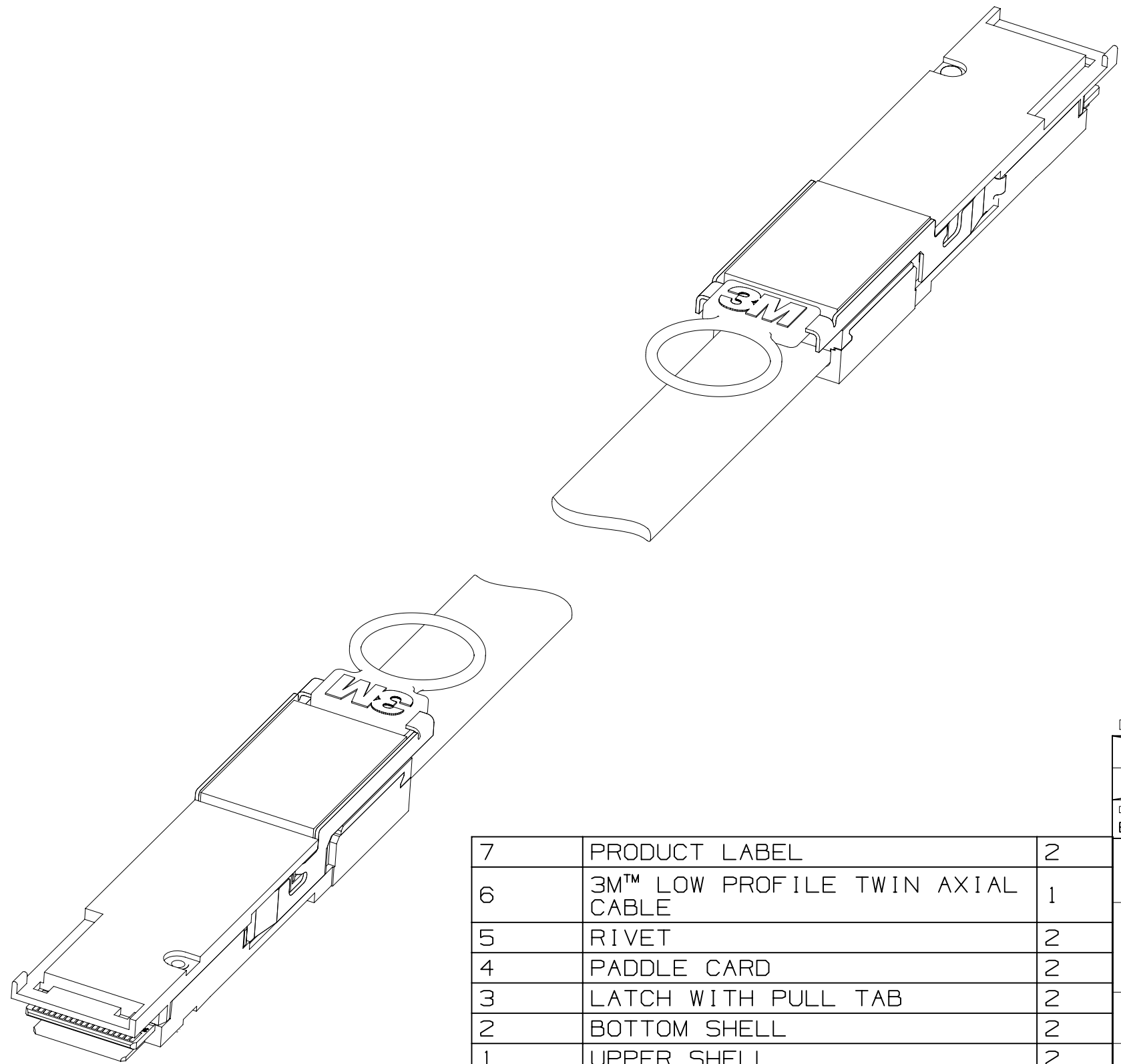




STANDARD PRODUCT LABEL DESCRIPTION
(CUSTOM AVAILABLE UPON REQUEST)



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
XXXXXX	XXXXXX
DIVISION ESD	DIVISION CODE
DO NOT SCALE DRAWING	SCALE 2/1
THIRD ANGLE PROJECTION	TOLERANCES EXCEPT AS NOTED
INTERPRET PER ASME Y14.5 - 2009	INCHES .00 ± .000 ± .0000 ±
MAX SURFACE ROUGHNESS 125/	MILLIMETERS 0 ± .0 ± .00 ± .000 ±
ALL SURFACES MARKED ONLY	ANGLES ±0.5°

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
R	LIM	JAN 22, 2014 E CHEN	JAN 22, 2014	
R	LIM	JAN 22, 2014 S BANDHU	JAN 22, 2014	

3M Center St. Paul, MN 55144

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TITLE 3M™ DIRECT ATTACH COPPER QSFP+ FDR CABLE ASSY SALES DWG

CAGE NUMBER D78-5100-2640-0

DRAWING NO. 78-5100-2640-0

REV. B

MODEL

DET. Lists YES NO SHT 1 OF 2

3M™ CABLE ASSEMBLIES FOR QSFP+ APPLICATIONS
VISIT <http://www.3Mconnectors.com>

NOTES :

1. ORDERING INFORMATION:

$$9Q_{\frac{XX}{11}} - 112 - \frac{XX}{11} - \frac{X}{11} \cdot \frac{XX}{11}$$

ASSEMBLY LENGTH X IN METERS SEE TABLE 1

-EEPROM MEMORY MAP

13 = FDR (14Gbps)

XX= CUSTOMIZATION(SEE 3M SALES REP)

— AWG

0 = 30 AWG

- CABLE TYPE

A = 30 AWG (PVC)

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

3. MODULE PCB PINOUT DESIGNED TO SFF8436 SPECIFICATION

4. DESIGNED TO SFF 8436 SPECIFICATION

5. JACKET: BLACK PVC .015" NOMINAL THICKNESS

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

7. FOLDING BEND RADIUS 2.5mm

8. ROHS COMPLIANT.SEE REGULATORY INFORMATION APPENDIX
IN "ROHS COMPLIANT" SECTION AT WWW.3Mconnectors.com(E1 & C1 apply)

9. UNLESS OTHERWISE NOTED, REFERENCES TO INDUSTRY SPECIFICATIONS ARE INTENDED TO INDICATE SUBSTANTIAL COMPLIANCE TO THE MATERIAL ELEMENTS OF THE SPECIFICATION. SUCH REFERENCES SHOULD NOT BE CONTRUED AS A GUARANTEE OF COMPLIANCE TO ALL REQUIREMENTS IN A GIVEN SPECIFICATION.

10. STANDARD PRODUCT SPECIFICATION: 78-5102-0198-7

11. FOR CUSTOM LENGTHS CONTACT A 3M SALES REPRESENTATIVE

TABLE 1

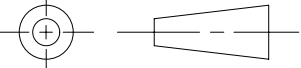
ORDERING INFORMATION	ASSY LENGTH=X (m)	TOLERANCE (mm)	B NOMINAL (mm)	C NOMINAL (mm)
9QA0-112-13-0.50	0.50	+10/-0	1.95	15.5
9QA0-112-13-1.00	1.00	+50/-0		
9QA0-112-13-1.50	1.50			
9QA0-112-13-2.00	2.00			
9QA0-112-13-2.50	2.50			
9QA0-112-13-x.x x	x.x x			

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

		B 0068166		JUN 14, 2016		YL	
		A 0052352		JAN 22, 2014		RL RL	
				New Release.			
NEXT ASSEMBLY		REV		ECO		ISSUE DATE AND DESCRIPTION	
ADDRESS CODES		DRFT R LIM		DATE JAN 22, 2014		MFG E CHEN	
		CHD R LIM		DATE JAN 22, 2014		APPL S BANDHU	
DIVISION		DIVISION CODE					
ESD						© 3M COPYRIGHT 2016	
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THIRD ANGLE PROJECTION		INCHES		TITLE			
		.01 ± .00 ± .000 ± .0000 ±		3M™ DIRECT ATTACH COPPER SFSF+ FDR CABLE ASSY SALES DWG			
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		CAGE NUMBER		DRAWING NO.	
MAX SURFACE ROUGHNESS 125 ☐ ALL SURFACES ☒ MARKED ONLY		.01 ±.2 .00 ±.10 .000 ±		SIZE D		78-5100-2640-0	
		ANGLES ±0.5°		MODEL		REV. B	
				DET. LISTS		YES ☐ NO ☒	
						SHT 2 OF 2	

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