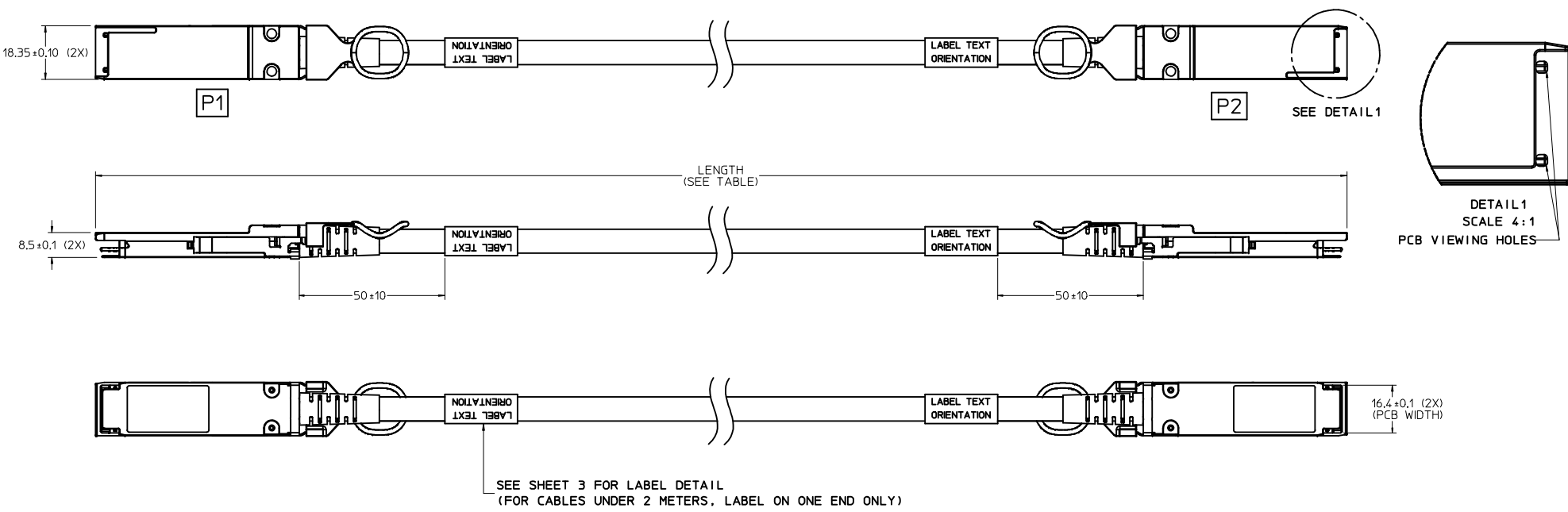
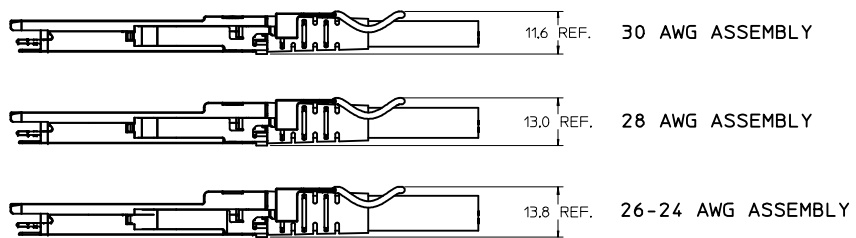


20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



SEE SHEET 3 FOR P/N TABLE



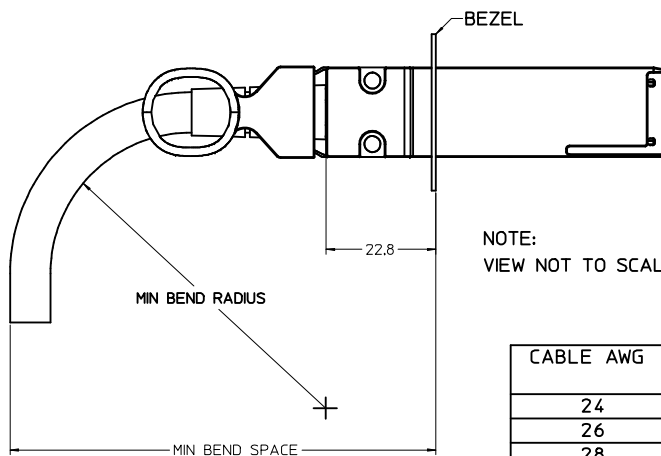
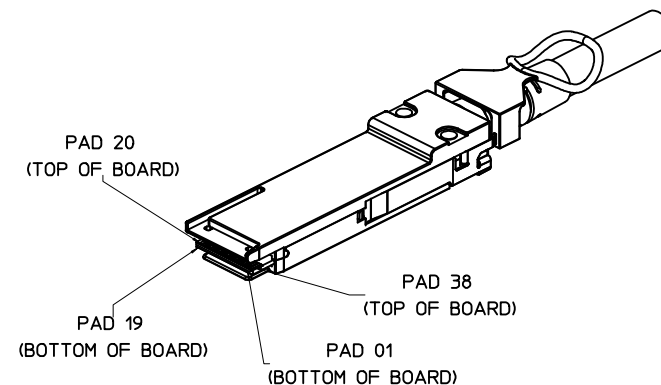
- NOTES:
1. CABLE DISTANCE DEPENDS ON WIRE GAUGE, DATA RATE, AND HOST BOARD DRIVER CAPABILITIES
 2. MATERIALS:
 - BACKSHELLS - ZINC DIE CAST WITH BRIGHT NICKEL PLATING
 - DELATCH - STAINLESS STEEL WITH OVERMOLDED NYLON
 - PCB - FR4
 - RIVETS - STAINLESS STEEL
 3. IMPEDANCE - 100 OHMS DIFFERENTIAL
 4. RoHS COMPLIANT, WITH EXEMPTIONS

SEE REVISION TABLE			QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION		
EC NO	DATE	DESCRIPTION		mm	INCH	MM ONLY	1:1	METRIC				
K	CPG2013-2761	DRW:NGARDELLA	▽=0	4 PLACES ±---	±---	DRAWN BY	DATE	TITLE OSFP: COPPER PATCH CABLE ASSEMBLY  DOCUMENT NO. SD-111040-0001				
		CHKD:ARABYURN	▽=0	3 PLACES ±---	±---	CHECKED BY	DATE					
		APPR:RKHAN	▽=0	2 PLACES ±---	±---	KLLOYD	2010/04/09					
				1 PLACE ±---	±---	APPROVED BY	DATE					
				0 PLACE ±---	±---	RAHMOOD	2010/04/12					
				ANGULAR ±---°		MATHEMATICAL NO.						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE P/N TABLE		SHEET NO. 1 OF 4					
						SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

WIRING DIAGRAM									
P1 END					P2 END				
PAD	SIGNAL				PAD	SIGNAL			
01	GND (TX)	----			20	GND (RX)			
02	TX2n	---->			21	RX2n			
03	TX2p	---->			22	RX2p			
04	GND (TX)	----			23	GND (RX)			
05	TX4n	---->			24	RX4n			
06	TX4p	---->			25	RX4p			
07	GND (TX)	----			26	GND (RX)			
08	ModSelL	■	■		27	ModPrsL			
09	ResetL	■	■		28	IntL			
10	VccRx	■	■		29	VccTx			
11	SCL	■	NC		30	Vcc1			
12	SDA	■	■		31	LPMode			
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)	----			01	GND (TX)			
21	RX2n	<----			02	TX2n			
22	RX2p	<----			03	TX2p			
23	GND (RX)	----			04	GND (TX)			
24	RX4n	<----			05	TX4n			
25	RX4p	<----			06	TX4p			
26	GND (RX)	----			07	GND (TX)			
27	ModPrsL	■	■		08	ModSelL			
28	IntL	■	■		09	ResetL			
29	VccTx	■	■		10	VccRx			
30	Vcc1	■	NC		11	SCL			
31	LPMode	■	■		12	SDA			
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)			

LEGEND:

- = THRU LINES
- > = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS
- C = COMMON GROUND CONNECTION
- NC = NOT CONNECTED
- = CONNECTION TO A DEVICE ON THE PCB



NOTE:
VIEW NOT TO SCALE.

CABLE BEND RADIUS

CABLE AWG	MIN BEND RADIUS (mm)	MIN BEND SPACE (mm)
24	51	84
26	44	76
28	39	70
30	33	62

NOTES:

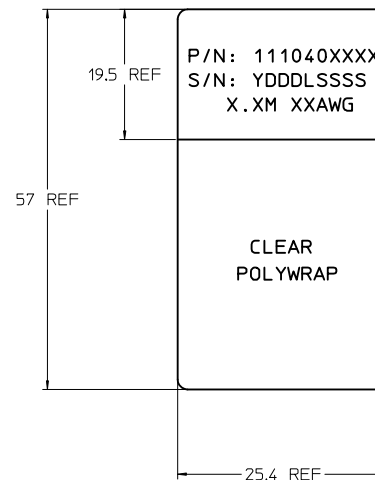
- DC BLOCKING CAPS ON RECEIVE SIDE ONLY
- CABLE COILED AND PACKAGED IN BEST FIT ESD BAG AND SEALED WITH ESD LABEL FOR SHIPPING

SEE REVISION TABLE			QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: CPG2013-2761	2013/03/05		▽=0		mm	INCH	MM ONLY	DATE	1:1	METRIC		
DRAWN BY: DRWNGBARDELLA	2013/03/06		▽=0		4 PLACES ±---	±---	CHEEN06_USY	2010/04/09			OSFP+ COPPER PATCH CABLE ASSEMBLY	
CHECKED BY: CHKDARABURN	2013/03/06		▽=0		3 PLACES ±---	±---		DATE				
APPROVED BY: APPRMRKHAN	2013/03/07		▽=0		2 PLACES ±---	±---	KLOYD	2010/04/09			molex	
					1 PLACE ±---	±---		DATE				
					0 PLACE ±---	±---	RAHMOOD	2010/04/12			SD-111040-0001	
											2 OF 4	

PART NUMBER TABLE

MOLEX P/N	LENGTH (M)	LENGTH TOLERANCE (mm)	AWG	CABLE MFG
1110401054	0.5	±30	30	MADISON 10
1110401104	1.0	±50	30	MADISON 10
1110401204	2.0	±50	30	MADISON 10
1110401304	3.0	±50	30	MADISON 10
1110401324	3.2	±50	30	MADISON 10
1110401404	4.0	±50	30	MADISON 10
1110401504	5.0	±80	30	MADISON 10
1110401704	7.0	±80	30	MADISON 10
1110402054	0.5	±30	28	MADISON 10
1110402104	1.0	±50	28	MADISON 10
1110402204	2.0	±50	28	MADISON 10
1110402304	3.0	±50	28	MADISON 10
1110402404	4.0	±50	28	MADISON 10
1110402504	5.0	±80	28	MADISON 10
1110402604	6.0	±80	28	MADISON 10
1110402704	7.0	±80	28	MADISON 10
1110403054	0.5	±50	26	MADISON 10
1110403104	1.0	±50	26	MADISON 10
1110403204	2.0	±50	26	MADISON 10
1110403205	2.0	±50	26	BELDEN
1110403304	3.0	±50	26	MADISON 10
1110403404	4.0	±50	26	MADISON 10
1110403504	5.0	±80	26	MADISON 10
1110403505	5.0	±80	26	BELDEN
1110403604	6.0	±80	26	MADISON 10
1110403704	7.0	±80	26	MADISON 10
1110404054	0.5	±50	24	MADISON 10
1110404104	1.0	±50	24	MADISON 10
1110404204	2.0	±50	24	MADISON 10
1110404304	3.0	±50	24	MADISON 10
1110404404	4.0	±50	24	MADISON 10
1110404504	5.0	±80	24	MADISON 10
1110404604	6.0	±80	24	MADISON 10
1110404704	7.0	±80	24	MADISON 10
1110404804	8.0	±80	24	MADISON 10
1110409010	10.0	±80	30	MADISON 10
1110409011	10.0	±80	28	MADISON 10
1110409012	10.0	±80	26	MADISON 10
1110409013	10.0	±08	24	MADISON 10
1110409018	15.0	±80	24	MADISON 10

CABLE LABEL DETAIL



YDDDLSSSS

Y = YEAR, THE LAST DIGIT OF THE YEAR

DDD = DAY OF THE YEAR

L = LOCATION (1=LR, 2=GDL, 3=DG)

SSSS = SERIAL NUMBER

X.XM = LENGTH AS SHOWN IN P/N TABLE

XXAWG = AWG SIZE

SEE REVISION TABLE EC NO: CPG2013-2761 DRAWING: BARELLA 2013/03/05 CHKD: ARYBURN 2013/03/06 APPR: RWHAN 2013/03/07	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±--- ±--- 1 PLACE ±--- ±--- 0 PLACE ±--- ±--- ANGULAR ±---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY: BCHEN06_USY CHECKED BY: KLLOYD APPROVED BY: RMAHMOOD DATE: 2010/04/09 DATE: 2010/04/09 DATE: 2010/04/12	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE QSFP+ COPPER PATCH CABLE ASSEMBLY	molex	DOCUMENT NO. SD-111040-0001	SHEET NO. 3 OF 4

REVISION HISTORY

DATE	REV	DESCRIPTION
2008/12/05	A	1. INITIAL RELEASE
2009/03/09	B	1. ADDED NEW P/Ns 111040-4051, 3051, 2051, 1401, 4403, 4503, 3203, 3303, 3403, 3503, 2103, 2203, 2303, 2403, 2503.& 1303.
2009/06/09	C	1. ALL PART NUMBERS ENDING IN '01' NOW END IN '04'
		2. ADDED PART NUMBERS 1110409010, -9011, -9012 AND -9013 TO CHART ON PAGE 3.
		3. CHANGED PLUG HEIGHT FOR EACH AWG SIZE FOR 10G CABLE.
2009/09/11	D	1. DELETE P/Ns 1110409001 & 1110409011, ADD P/Ns 1110401504 & 1110402604.
		2. REVISED ALL MADISON TURBO TWIN CABLE DESCRIPTIONS TO MADISON 10 ON PAGE 3.
		3. ADDED P/N 1110409018 TO CHART ON PAGE 3.
2009/09/26	E	1. UPDATE CABLE BEND TABLE ON PAGE 2.
		2. REMOVE SS SC P/N'S FROM TABLE ON PAGE 3.
2009/11/02	F	1. ADDED TEXTS 'P/N:' AND 'S/N:' ON LABEL ON PAGE 1 .
2009/12/11	G	1. ADDED NEW P/N 1110409011 TO CHART ON PAGE 3.
2010/03/31	H	1. ADDED NEW P/N 1110401324,1110401704 AND 1110402704 TO CHART ON PAGE 3;
		2. CORRECTED TITLE.
2010/06/11	I	1. ADDED NEW P/N 1110404804.
2011/06/28	J	1. UPDATED LABEL INFORMATION FOR LENGTH OF CABLE ON PAGE 1
		2. CHANGED TEXT ON NOTE 4 PAGE 1
2013/03/05	K	1. MOVE LABEL DETAIL FROM SHEET 1 TO SHEET 2 AND INCREASED DETAIL TO CONFORM TO NEW DRAWING FORMAT
		2. ADD NOTE TO SHEET 1 THAT SAYS 'SEE SHEET 3 FOR P/N TABLE'
		3. CHANGE BEND RADIUS VIEW ON SHEET 2 TO NEW FORMAT AND UPDATED TABLE
		4. CHANGE WIRING DIAGRAM ON SHEET 2 TO NEW FORMAT TABLE
		5. UPDATED RoHS NOTE FROM 'LEAD FREE, NO RoHS EXEMPTIONS' TO 'RoHS COMPLIANT, WITH EXEMPTIONS'
		6. UPDATED P/N TABLE ON SHEET 3 TO NEW FORMAT
		7. ADDED PART NUMBERS 1110403205 AND 1110403505
		8. INCREASED TEXT SIZES TO CONFORM TO NEW DRAWING FORMAT

SEE REVISION TABLE EC NO: CPG2013-2761 DRAWN BY: DRWNGBARDELLA CHECKED BY: CHKOARAYBURN APPROVED BY: APPRPRMKHAN DATE: 2013/03/05 DATE: 2013/03/06 DATE: 2013/03/07 REV: K	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
	▽=0			DRAWN BY DATE BCHEN06_USY 2010/04/09		TITLE QSFP+ COPPER PATCH CABLE ASSEMBLY		
	▽=0			CHECKED BY DATE KLOYD 2010/04/09		molex SD-111040-0001		
	▽=0			APPROVED BY DATE RMAHMOOD 2010/04/12				
	ANGULAR ±---°		MATERIAL NO.		DOCUMENT NO.			
REV: K	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 4 OF 4		