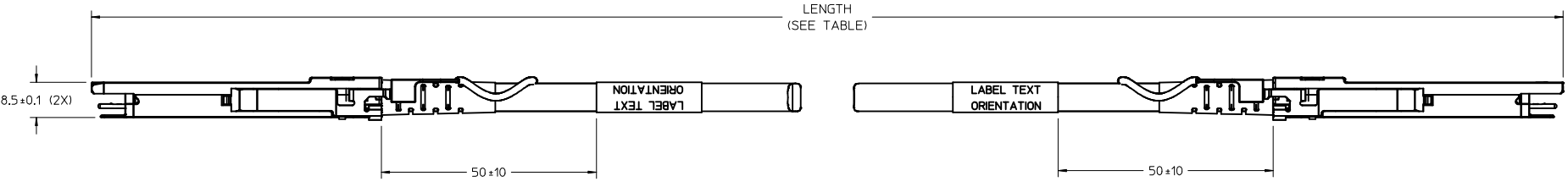
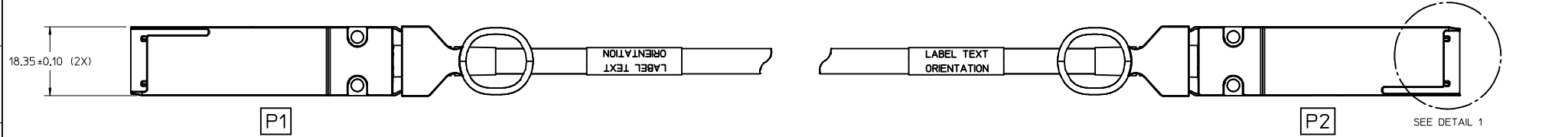
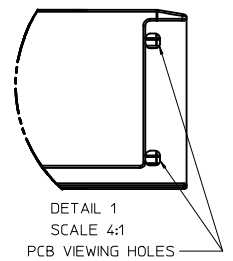
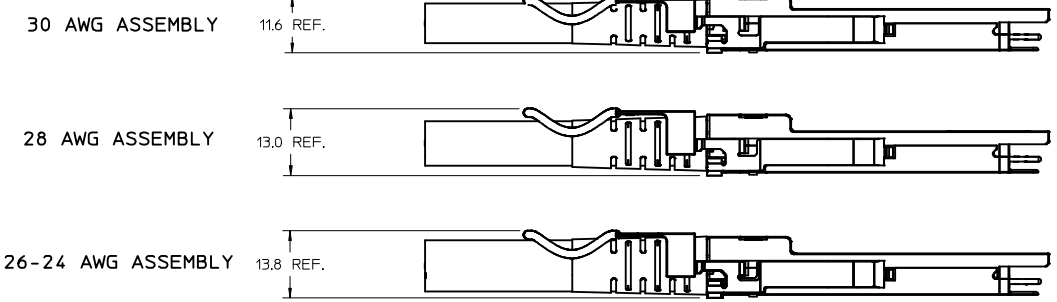


20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



SEE SHEET 3 FOR LABEL DETAIL FOR CABLES UNDER 2M, LABEL ON P1 END ONLY

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, NO EXEMPTIONS

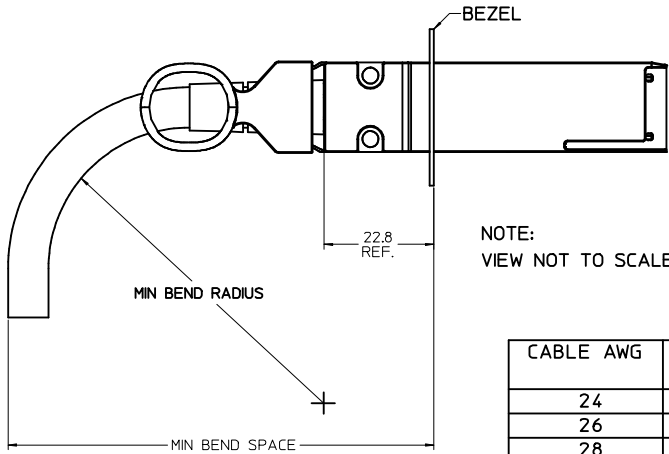
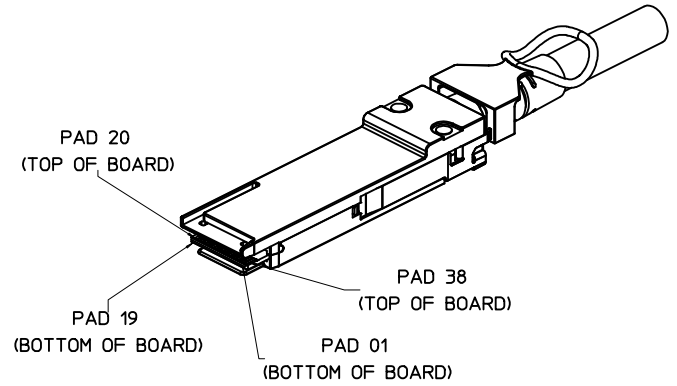
ADDED P/N 110402255 EC NO: CPG2017-0314 DRAWN BY: CHYOKUKIMARR CHECKED BY: CHYOKUKAGANNA APPR: ARAYBURN DATE: 2016/08/24 DATE: 2016/08/26 DATE: 2016/08/26	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ± ±	mm INCH ±--- ±--- ±--- ±--- ±--- ±--- ±--- ±---	DRAWN BY: JENGRAVE DATE: 2014/10/20 CHECKED BY: RAGYEI DATE: 2015/01/30 APPROVED BY: ARAYBURN DATE: 2014/11/11	TITLE QSFP+ COPPER PATCH CABLE ASSEMBLY	MATERIAL NO. SEE P/N TABLE	DOCUMENT NO. SD-11040-0005

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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

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	50	83
26	44	76
28	39	69
30	33	62

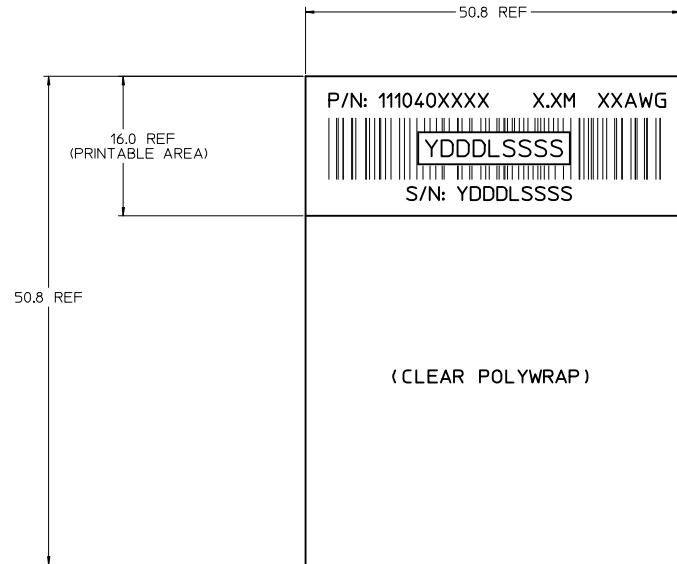
NOTES:
 1. DC BLOCKING CAPS ON RECEIVE SIDE ONLY
 2. CABLE COILED AND PACKAGED IN BEST FIT ESD BAG AND SEALED WITH ESD LABEL FOR SHIPPING

ADDED P/N 110402255 EC NO: CPG2017-0314 DRWNG: KUMARR 2016/08/24 CHKD: KAGANNA 2016/08/26 APPR: ARAYBURN 2016/08/26 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽=0	mm INCH	MM ONLY	1:1	METRIC	☉	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY	DATE	TITLE	QSPF+ COPPER PATCH CABLE ASSEMBLY	
	▽=0	3 PLACES ± 0.13 ± ---	JENGRIVE	2014/10/20		molex MATERIAL NO. DOCUMENT NO. SHEET NO. SEE P/N TABLE SD-111040-0005 2 OF 3	
	2 PLACES ± 0.25 ± ---	CHECKED BY	DATE				
	1 PLACE ± ±	APPROVED BY	DATE				
	0 PLACE ± ±	ARAYBURN	2014/11/11				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

PART NUMBER TABLE

MOLEX P/N	LENGTH (M)	LENGTH TOLERANCE (mm)	AWG
1110401045	0.35	±30	30
1110401055	0.5	±30	30
1110401075	0.75	±30	30
1110401105	1.0	±50	30
1110401155	1.5	±50	30
1110401205	2.0	±50	30
1110401255	2.5	±50	30
1110401305	3.0	±50	30
1110401325	3.2	±50	30
1110401405	4.0	±50	30
1110401505	5.0	±80	30
1110401705	7.0	±80	30
1110402055	0.5	±30	28
1110402105	1.0	±50	28
1110402205	2.0	±50	28
1110402255	2.5	±50	28
1110402305	3.0	±50	28
1110401358	3.5	±50	28
1110402405	4.0	±50	28
1110402505	5.0	±80	28
1110402605	6.0	±80	28
1110402705	7.0	±80	28
1110403055	0.5	±30	26
1110403105	1.0	±50	26
1110403205	2.0	±50	26
1110403305	3.0	±50	26
1110403405	4.0	±50	26
1110403505	5.0	±80	26
1110403605	6.0	±80	26
1110403705	7.0	±80	26
1110404055	0.5	±30	24
1110404105	1.0	±50	24
1110404205	2.0	±50	24
1110404305	3.0	±50	24
1110404405	4.0	±50	24
1110404505	5.0	±80	24
1110404605	6.0	±80	24
1110404705	7.0	±80	24

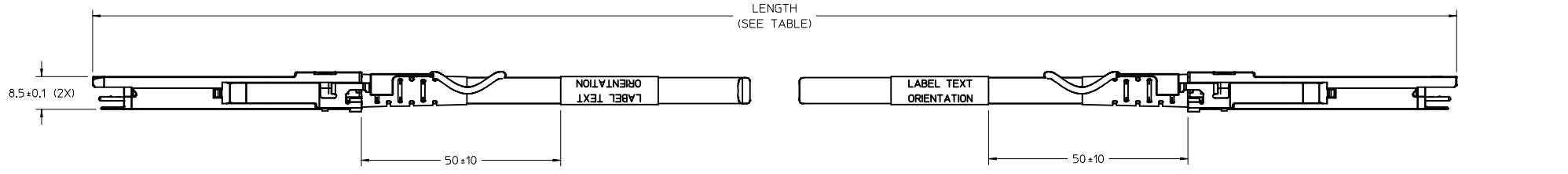
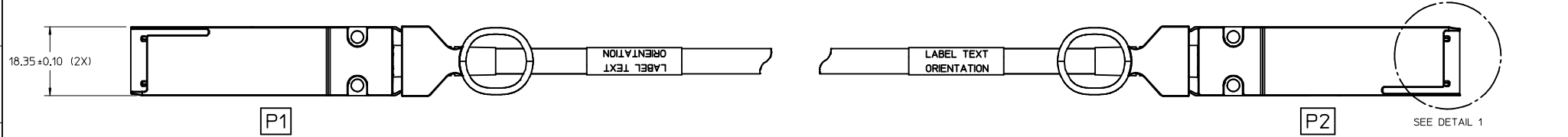
LABEL DETAIL



P/N: SEE TABLE
 S/N: Y = YEAR, LAST DIGIT OF YEAR
 DDD = DAY OF THE YEAR (ISO-8601 FORMAT)
 L = LOCATION - 1 = USA
 2 = MEXICO
 3 = CHINA
 4 = PHILIPPINES
 SSSS = SERIAL NUMBER (0001-9999)
 X.XM: CABLE LENGTH, AS SHOWN ON P/N TABLE
 XXAWG: WIRE GAGE, SEE TABLE

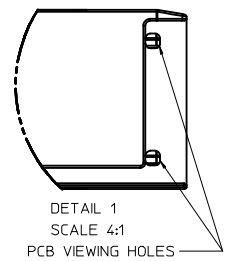
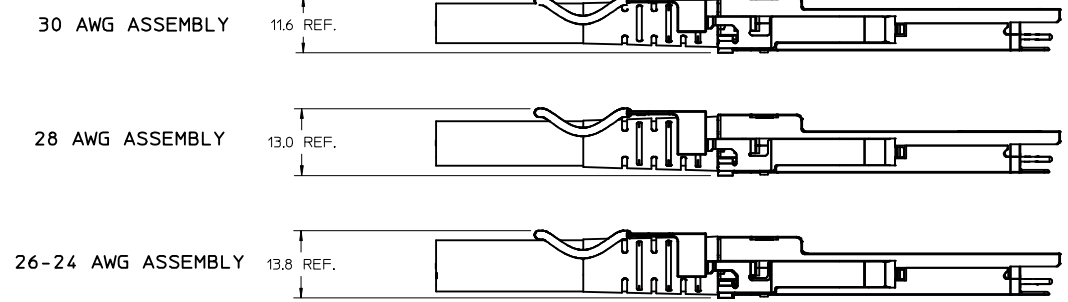
ADDED P/N 1110402255 EC NO: CFG2017-0314 DRWNG: KUMARR 2016/08/24 CHKD: KAGANNA 2016/08/26 APPR: ARAYBURN 2016/08/26 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ±---+---+---	MM ONLY	1:1	METRIC	QSF+ COPPER PATCH CABLE ASSEMBLY molex DOCUMENT NO. SD-111040-0005 SHEET NO. 3 OF 3
	▽=0	3 PLACES ±---+---+---	mm			
	▽=0	2 PLACES ±0.13+---+---	INCH			
▽=0	1 PLACE ±0.25+---+---					
		0 PLACE ±+---+---				
		ANGULAR ±-----				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE P/N TABLE			
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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



SEE SHEET 3 FOR LABEL DETAIL FOR CABLES UNDER 2M, LABEL ON P1 END ONLY

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, NO EXEMPTIONS

ADDED P/N 110402255 EC NO: CPG2017-0314 DRAWN BY: CHYOKUKIMARR CHKD BY: CHYOKUKAGANNA APPR: ARAYBURN DATE: 2016/08/24 DATE: 2016/08/26 DATE: 2016/08/26	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ± ±---		DIMENSION STYLE MM ONLY	SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWN BY: JENGRIVE DATE: 2014/10/20 CHECKED BY: RAGYEI DATE: 2015/01/30 APPROVED BY: ARAYBURN DATE: 2014/11/11	TITLE QSFP+ COPPER PATCH CABLE ASSEMBLY	MATERIAL NO. SEE P/N TABLE	DOCUMENT NO. SD-11040-0005

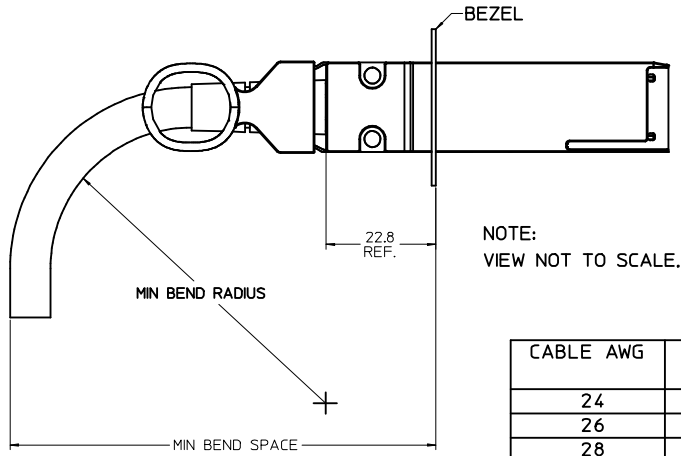
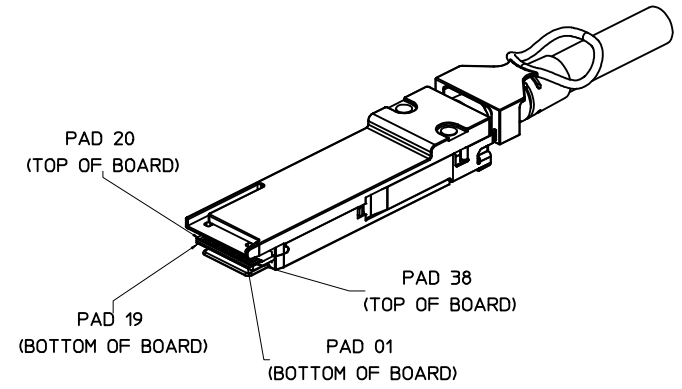
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19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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	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	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	50	83
26	44	76
28	39	69
30	33	62

NOTES:

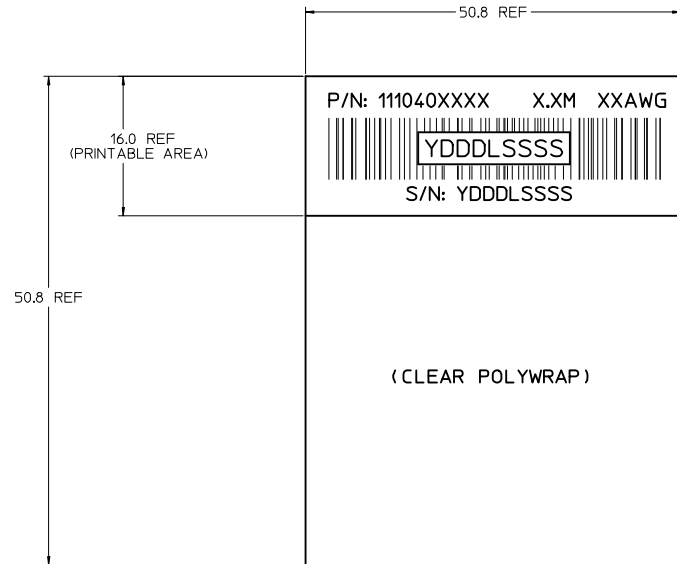
1. DC BLOCKING CAPS ON RECEIVE SIDE ONLY
2. CABLE COILED AND PACKAGED IN BEST FIT ESD BAG AND SEALED WITH ESD LABEL FOR SHIPPING

ADDED P/N 110402255 EC NO: CPG2017-0314 DRWNG: KUMARR 2016/08/24 CHKD: KAGANNA 2016/08/26 APPR: ARAYBURN 2016/08/26	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽=0	mm INCH	MM ONLY	1:1	METRIC		
	▽=0	4 PLACES ± --- ± ---	DRAWN BY	DATE	TITLE		
	▽=0	3 PLACES ± 0.13 ± ---	JENGRIVE	2014/10/20	QSPF+ COPPER PATCH CABLE ASSEMBLY		
	1 PLACE ± 0.25 ± ---	CHECKED BY	DATE				
	0 PLACE ± ±	RAGYE I	2015/01/30				
		APPROVED BY	DATE				
		ARAYBURN	2014/11/11				
		MATERIAL NO.	DOCUMENT NO.				
		SEE P/N TABLE	SD-111040-0005			SHEET NO. 2 OF 3	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

PART NUMBER TABLE

MOLEX P/N	LENGTH (M)	LENGTH TOLERANCE (mm)	AWG
1110401045	0.35	±30	30
1110401055	0.5	±30	30
1110401075	0.75	±30	30
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1110401155	1.5	±50	30
1110401205	2.0	±50	30
1110401255	2.5	±50	30
1110401305	3.0	±50	30
1110401325	3.2	±50	30
1110401405	4.0	±50	30
1110401505	5.0	±80	30
1110401705	7.0	±80	30
1110402055	0.5	±30	28
1110402105	1.0	±50	28
1110402205	2.0	±50	28
1110402255	2.5	±50	28
1110402305	3.0	±50	28
1110401358	3.5	±50	28
1110402405	4.0	±50	28
1110402505	5.0	±80	28
1110402605	6.0	±80	28
1110402705	7.0	±80	28
1110403055	0.5	±30	26
1110403105	1.0	±50	26
1110403205	2.0	±50	26
1110403305	3.0	±50	26
1110403405	4.0	±50	26
1110403505	5.0	±80	26
1110403605	6.0	±80	26
1110403705	7.0	±80	26
1110404055	0.5	±30	24
1110404105	1.0	±50	24
1110404205	2.0	±50	24
1110404305	3.0	±50	24
1110404405	4.0	±50	24
1110404505	5.0	±80	24
1110404605	6.0	±80	24
1110404705	7.0	±80	24

LABEL DETAIL



P/N: SEE TABLE
 S/N: Y = YEAR, LAST DIGIT OF YEAR
 DDD = DAY OF THE YEAR (ISO-8601 FORMAT)
 L = LOCATION - 1 = USA
 2 = MEXICO
 3 = CHINA
 4 = PHILIPPINES
 SSSS = SERIAL NUMBER (0001-9999)
 X.XM: CABLE LENGTH, AS SHOWN ON P/N TABLE
 XXAWG: WIRE GAGE, SEE TABLE

ADDED P/N 1110402255 EC NO: CFG2017-0314 DRWNG: KUMARR 2016/08/24 CHKD: KAGANNA 2016/08/26 APPR: ARAYBURN 2016/08/26 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽=0	mm INCH	MM ONLY	1:1	METRIC	☉	
	▽=0	4 PLACES ±---+ 3 PLACES ±---+ 2 PLACES ±0.13+ 1 PLACE ±0.25+ 0 PLACE ±+---	DRAWN BY DATE JENGRAVE 2014/10/20 CHECKED BY DATE RAGYEJ 2015/01/30 APPROVED BY DATE ARAYBURN 2014/11/11	TITLE	QSF+ COPPER PATCH CABLE ASSEMBLY		
	▽=0	ANGULAR ±---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE P/N TABLE	DOCUMENT NO. SD-111040-0005	SHEET NO. 3 OF 3		

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