

MOLEX P/N	AWG	IMPEDANCE (OHM)	LENGTH (mm)	TOLERANCE (+-mm)	DESCRIPTION	PINOUT
1002220100	30	85	152	10	CTRL TO BP	1
1002220101	30	85	300	10	CTRL TO BP	1
1002220102	30	85	500	10	CTRL TO BP	1
1002220103	30	85	600	10	CTRL TO BP	1
1002220104	30	85	1000	15	CTRL TO BP	1
1002220200	30	85	152	10	CTRL TO CTRL	2
1002220201	30	85	300	10	CTRL TO CTRL	2
1002220202	30	85	500	10	CTRL TO CTRL	2
1002220203	30	85	600	10	CTRL TO CTRL	2
1002220204	30	85	1000	15	CTRL TO CTRL	2
1002220300	30	85	152	10	PCIE	3
1002220301	30	85	300	10	PCIE	3
1002220302	30	85	500	10	PCIE	3
1002220303	30	85	600	10	PCIE	3
1002220304	30	85	1000	15	PCIE	3

- NOTES:
- MATERIAL:
 - HOUSING - GLASS FILLED NYLON, UL94-V0
 - LATCH - MOLDED INTO HOUSING
 - EXPANDO - PET
 - CABLE - TWIN-AX SHIELD: ALUMINIZED POLYESTER FOIL
SIGNAL AND DRAIN: SOLID COPPER
 - PCB - FR4 (HALOGEN FREE)
 - THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0
 - RoHS COMPLIANT. NO EXEMPTIONS

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		
	DIMENSION UNITS	SCALE			
▽ = 0	mm	5:1			4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				
▽ = 0	ANGULAR TOL ± 1.0°		EC NO: 604318		PRODUCT CUSTOMER DRAWING
▽ = 0	4 PLACES	±	DRWN: NHSU01 2018/07/23		
▽ = 0	3 PLACES	±	CHK'D: VPENG01 2018/09/12		DOCUMENT NUMBER: 1002220100 DOC TYPE: PSD DOC PART: 000 REVISION: E
▽ = 0	2 PLACES	± 0.13	APPR: VPENG01 2018/09/12		
▽ = 0	1 PLACE	± 0.25	INITIAL REVISION:		MATERIAL NUMBER: 100222 CUSTOMER: GENERAL MARKET SHEET NUMBER: 1 OF 3
▽ = 0	0 PLACES	±	DRWN: CYEH03 2017/12/18		
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: RHSU01 2018/02/13		
▽ = 0	THIRD ANGLE PROJECTION		DRAWING: D-SIZE		
		SERIES: 100222			

PINOUT 1

	P1		N/C	P2	
		GND		D9	B9
C O N T R O L L E R	TX2-	D8	→	B8	RX2-
	TX2+	D7	→	B7	RX2+
	GND	D6	———	B6	GND
	TX0-	D5	→	B5	RX0-
	TX0+	D4	→	B4	RX0+
	GND	D3	———	B3	GND
	SB6	D2	-----	D1	SB6
	SB5	D1	-----	D2	SB5
	SB4	C1	-----	C2	SB4
	SB2	C2	-----	C1	SB2
	GND	C3	———	A3	GND
	TX1+	C4	→	A4	RX1+
	TX1-	C5	→	A5	RX1-
	GND	C6	———	A6	GND
	TX3+	C7	→	A7	RX3+
	TX3-	C8	→	A8	RX3-
	GND	C9	N/C	A9	GND
	GND	B9	N/C	D9	GND
	RX2-	B8	←	D8	TX2-
	RX2+	B7	←	D7	TX2+
	GND	B6	———	D6	GND
	RX0-	B5	←	D5	TX0-
	RX0+	B4	←	D4	TX0+
	GND	B3	———	D3	GND
	SB1	B2	-----	B1	SB1
	SB3	B1	-----	B2	SB3
	SB7	A1	-----	A2	SB7
	SB0	A2	-----	A1	SB0
	GND	A3	———	C3	GND
	RX1+	A4	←	C4	TX1+
	RX1-	A5	←	C5	TX1-
	GND	A6	———	C6	GND
	RX3+	A7	←	C7	TX3+
	RX3-	A8	←	C8	TX3-
	GND	A9	N/C	C9	GND

PINOUT 2

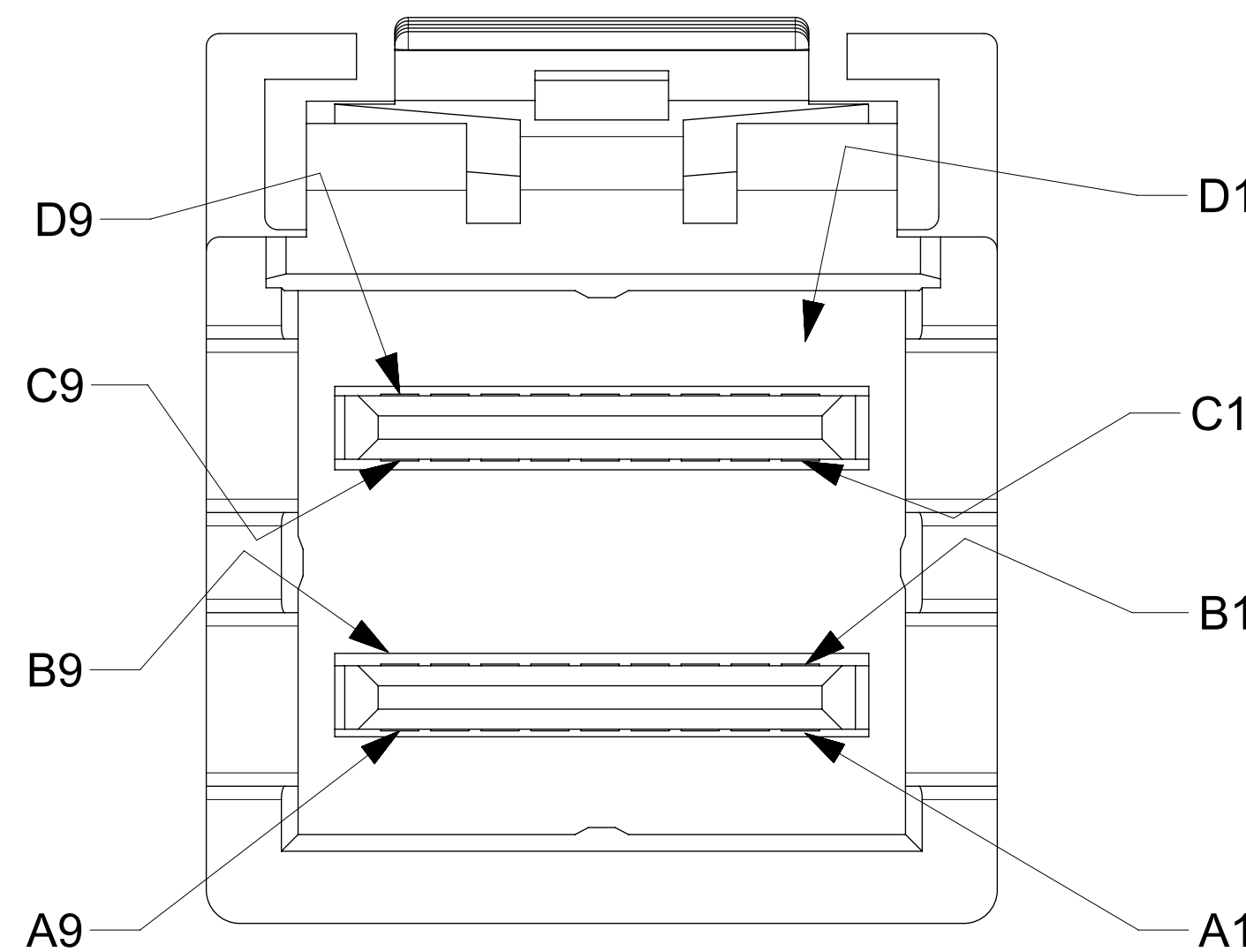
	P1		N/C	P2	
		GND		D9	B9
C O N T R O L L E R	TX2-	D8	→	B8	RX2-
	TX2+	D7	→	B7	RX2+
	GND	D6	———	B6	GND
	TX0-	D5	→	B5	RX0-
	TX0+	D4	→	B4	RX0+
	GND	D3	———	B3	GND
	SB6	D2	-----	B2	SB1
	SB5	D1	-----	C2	SB2
	SB4	C1	-----	B1	SB3
	SB2	C2	-----	D1	SB5
	GND	C3	———	A3	GND
	TX1+	C4	→	A4	RX1+
	TX1-	C5	→	A5	RX1-
	GND	C6	———	A6	GND
	TX3+	C7	→	A7	RX3+
	TX3-	C8	→	A8	RX3-
	GND	C9	N/C	A9	GND
	GND	B9	N/C	D9	GND
	RX2-	B8	←	D8	TX2-
	RX2+	B7	←	D7	TX2+
	GND	B6	———	D6	GND
	RX0-	B5	←	D5	TX0-
	RX0+	B4	←	D4	TX0+
	GND	B3	———	D3	GND
	SB1	B2	-----	D2	SB6
	SB3	B1	-----	C1	SB4
	SB7	A1	-----	A2	SB0
	SB0	A2	-----	A1	SB7
	GND	A3	———	C3	GND
	RX1+	A4	←	C4	TX1+
	RX1-	A5	←	C5	TX1-
	GND	A6	———	C6	GND
	RX3+	A7	←	C7	TX3+
	RX3-	A8	←	C8	TX3-
	GND	A9	N/C	C9	GND

PINOUT 3

	P1		N/C	P2	
		GND		D9	B9
P C I E	TX2-	D8	→	B8	RX2-
	TX2+	D7	→	B7	RX2+
	GND	D6	———	B6	GND
	TX0-	D5	→	B5	RX0-
	TX0+	D4	→	B4	RX0+
	GND	D3	———	B3	GND
	SB6	D2	-----	D1	SB6
	SB5	D1	-----	D2	SB5
	WAKEn	C1	-----	C2	CWAKEn
	RSTn	C2	-----	C1	CPERSTn
	GND	C3	———	A6	GND
	TX1+	C4	→	A4	RX1+
	TX1-	C5	→	A5	RX1-
	GND	C6	———	A9	GND
	TX3+	C7	→	A7	RX3+
	TX3-	C8	→	A8	RX3-
	GND	C9	N/C	C9	GND
	GND	B9	N/C	D9	GND
	RX2-	B8	←	D8	TX2-
	RX2+	B7	←	D7	TX2+
	GND	B6	———	D6	GND
	RX0-	B5	←	D5	TX0-
	RX0+	B4	←	D4	TX0+
	GND	B3	———	D3	GND
	SB1	B2	-----	B1	SB1
	SB3	B1	-----	B2	SB3
	CLK+	A1	←	A2	CLK+
	CLK-	A2	←	A1	CLK-
	GND	A3	———	A3	GND
	RX1+	A4	←	C4	TX1+
	RX1-	A5	←	C5	TX1-
	GND	A6	———	C3	GND
	RX3+	A7	←	C7	TX3+
	RX3-	A8	←	C8	TX3-
	GND	A9	———	C6	GND

LEGEND:

- = GROUND LINES
- = THRU LINES
- = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS
- N/C = NOT CONNECTED



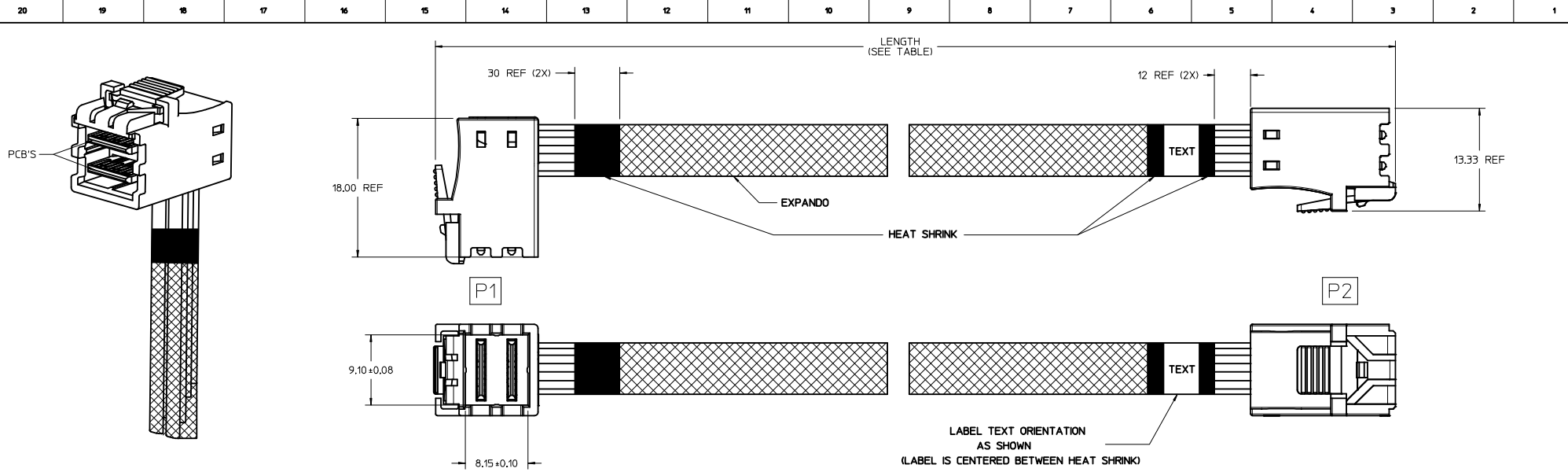
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:	
	DIMENSION UNITS	SCALE		
▽ = 0	mm	10:1		
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			
▽ = 0	ANGULAR TOL ± 1.0°			
▽ = 0	4 PLACES	±		
▽ = 0	3 PLACES	±		
▽ = 0	2 PLACES	± 0.13		
▽ = 0	1 PLACE	± 0.25		
▽ = 0	0 PLACES	±		
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
▽ = 0	THIRD ANGLE PROJECTION		DRAWING	SERIES
			D-SIZE	100222
EC NO: 604318		2018/07/23		
DRWN: NHSU01		2018/09/12		
CHK'D: VPENG01		2018/09/12		
APPR: VPENG01		2018/09/12		PRODUCT CUSTOMER DRAWING
INITIAL REVISION:				DOCUMENT NUMBER
DRWN: CYEH03		2017/12/18		1002220100
APPR: RHSU01		2018/02/13		DOC TYPE
				PSD
				DOC PART
				000
				REVISION
				E
				MATERIAL NUMBER
				SEE P/N TABLE
				CUSTOMER
				GENERAL MARKET
				SHEET NUMBER
				2 OF 3

LABEL DETAIL



MOLEX PART NUMBER (SEE P/N TABLE)
 XXXX:MANUFACTURING LOCATION
 MANUFACTURING DATE
 WW: WEEK OF THE YEAR (0-52)
 YY: LAST TWO DIGITS OF THE YEAR

SYMBOLS = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:					
	DIMENSION UNITS	SCALE	EC NO: 604318					DOCUMENT NUMBER
	mm	1:1	DRWN: NHSU01 2018/07/23		1002220100	PSD	000	E
	GENERAL TOLERANCES (UNLESS SPECIFIED)		CHK'D: VPENG01 2018/09/12		PRODUCT CUSTOMER DRAWING			
	ANGULAR TOL ± 1.0°		APPR: VPENG01 2018/09/12		INITIAL REVISION:			
	4 PLACES ±		DRWN: CYEH03 2017/12/18		SEE P/N TABLE			
	3 PLACES ±		APPR: RHSU01 2018/02/13		GENERAL MARKET			
	2 PLACES ± 0.13		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		3 OF 3			
	1 PLACE ± 0.25		THIRD ANGLE PROJECTION					
	0 PLACES ±		DRAWING SERIES					



MOLEX P/N	AWG	LENGTH (mm)	TOLERANCE (+mm)	DESCRIPTION	PINOUT
1002220100	30	0.152	10	CTRL TO BP	1
1002220101	30	0.300	10	CTRL TO BP	1
1002220102	30	0.500	10	CTRL TO BP	1
1002220103	30	0.600	10	CTRL TO BP	1
1002220104	30	1.000	15	CTRL TO BP	1
1002220200	30	0.152	10	CTRL TO CTRL	2
1002220201	30	0.300	10	CTRL TO CTRL	2
1002220202	30	0.500	10	CTRL TO CTRL	2
1002220203	30	0.600	10	CTRL TO CTRL	2
1002220204	30	1.000	15	CTRL TO CTRL	2
1002220300	30	0.152	10	PCIE	3
1002220301	30	0.300	10	PCIE	3
1002220302	30	0.500	10	PCIE	3
1002220303	30	0.600	10	PCIE	3
1002220304	30	1.000	15	PCIE	3

NOTES:

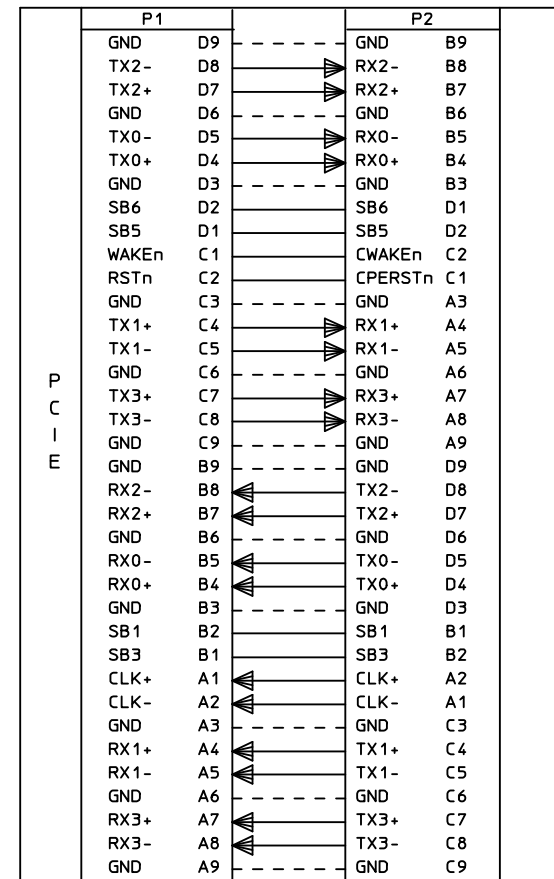
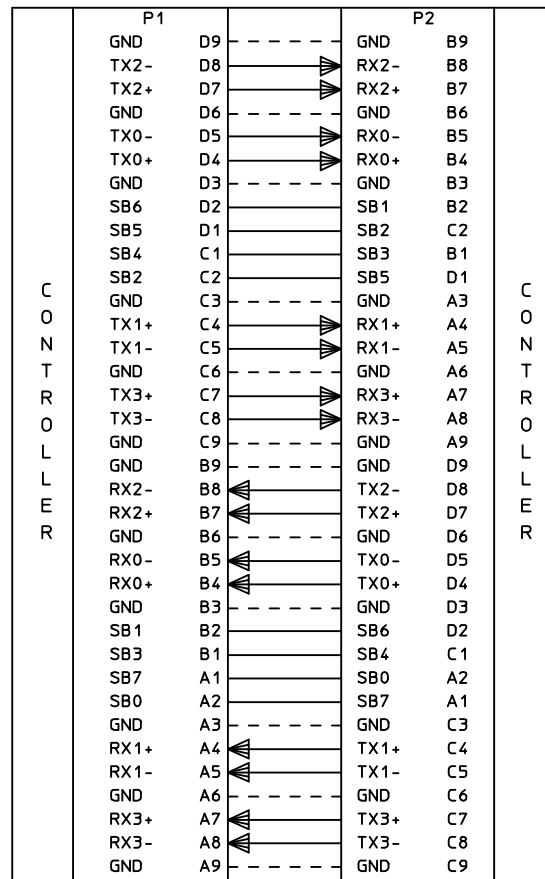
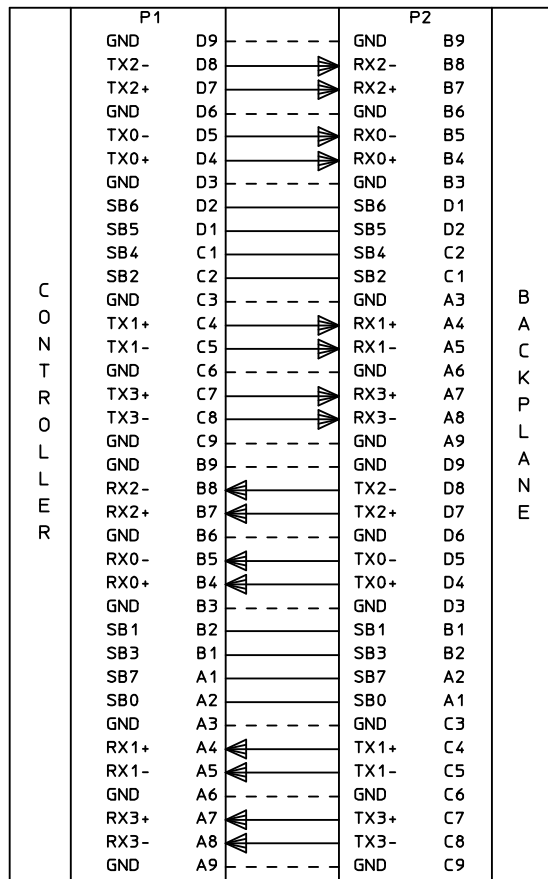
- MATERIAL:**
 HOUSING - 30% GLASS FILLED NYLON, UL94-V0
 LATCH - MOLDED INTO HOUSING
 EXPANDO - PET
 CABLE - TWIN-AX SHIELD: ALUMINIZED POLYESTER FOIL
 SIGNAL AND DRAIN: SOLID COPPER
 PCB - FR4 (HALOGEN FREE)
- THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0
- RoHS COMPLIANT. NO EXEMPTIONS

UPDATED PINOUT EC NO: CPG2015-4494 DRAWN BY: TPRATT CHKD: PSYTSMA APPR: CHIRSCHY DATE: 2015/03/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$ $\nabla=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± --- ± ---	MM ONLY	4:1	METRIC	
	DRAWN BY: TPRATT CHECKED BY: PSYTSMA APPROVED BY: CHIRSCHY DATE: 2014/02/26 DATE: 2014/02/26 DATE: 2014/03/21	ANGULAR ± 1° 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	TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM molex DOCUMENT NO. SD-100222-0100	SHEET NO. 1 OF 3	
	MATERIAL NO.	SIZE D	INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

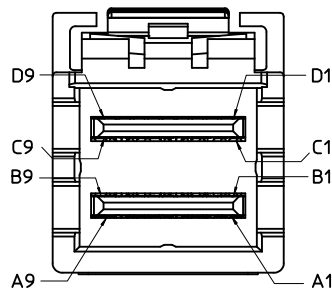
PINOUT 1

PINOUT 2

PINOUT 3



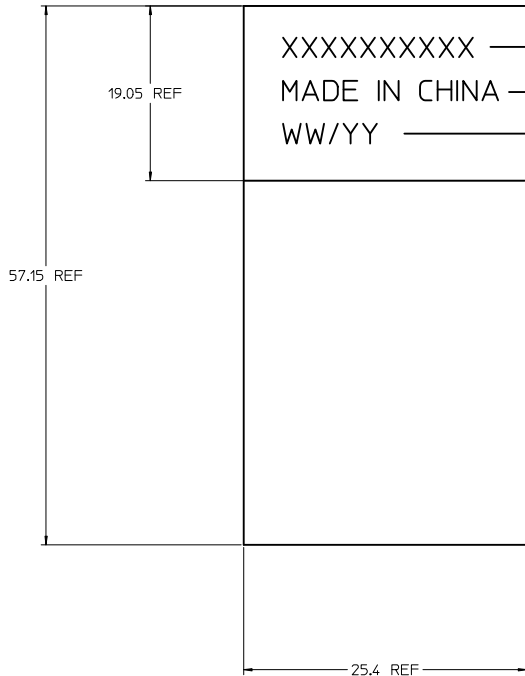
LEGEND:
 ---- = THRU LINES
 ▸ = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS



UPDATED PINOUT EC NO: CPG2015-4494 DRAWN/TPRATT CHKD: APPR:CHRISCHY 2015/02/25 2015/03/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm	MM ONLY	4:1	METRIC	☉
	▽=0	3 PLACES ± 0.13				
	▽=0	2 PLACES ± 0.25				
		ANGULAR ± 1°	DRAWN BY	DATE	TITLE	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	TPRATT	2014/02/26	4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM	
			CHECKED BY	DATE		
			PSYTSMA	2014/02/26		
			APPROVED BY	DATE	DOCUMENT NO.	
			CHRISCHY	2014/03/21	SD-100222-0100	
			MATERIAL NO.		SHEET NO.	
			SEE P/N TABLE		2 OF 3	
			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

LABEL DETAIL



XXXXXXXXXX — MOLEX PART NUMBER (SEE P/N TABLE)
 MADE IN CHINA — MANUFACTURING LOCATION
 WW/YY — WW: WEEK OF THE YEAR (0-52)
 YY: LAST TWO DIGITS OF THE YEAR

UPDATED PINOUT IEC NO: CPG2015-4494 DRAWN: PRATT CHKD: CHYK APPR: CHIRSCHY 2015/03/03	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm INCH	MM ONLY	4:1	METRIC	☉
	▽=0	3 PLACES ± 0.13				
	▽=0	2 PLACES ± 0.25				
	ANGULAR ± 1°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE P/N TABLE	DRAWN BY DATE TPRATT 2014/02/26 CHECKED BY DATE PSYTSMA 2014/02/26 APPROVED BY DATE CHIRSCHY 2014/03/21		TITLE 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM molex
				MATERIAL NO.	DOCUMENT NO.	SHEET NO.
					SD-100222-0100	3 OF 3
				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