

LABEL TEXT ORIENTATION AS SHOWN  
(LABEL IS CENTERED BETWEEN ACETATE TAPE)

MOLEX P/N	AWG	IMPEDANCE	LENGTH(M)	TOLERNCE(+/-mm)	DESCRIPTION	PINOUT
1001710100	30	100 Ohms	0.152	10	CTRL TO BP	1
1001710101	30	100 Ohms	0.300	10	CTRL TO BP	1
1001710102	30	100 Ohms	0.500	10	CTRL TO BP	1
1001710103	30	100 Ohms	0.600	10	CTRL TO BP	1
1001710104	30	100 Ohms	1.000	15	CTRL TO BP	1
1001710200	30	100 Ohms	0.152	10	CTRL TO CTRL	2
1001710201	30	100 Ohms	0.300	10	CTRL TO CTRL	2
1001710202	30	100 Ohms	0.500	10	CTRL TO CTRL	2
1001710203	30	100 Ohms	0.600	10	CTRL TO CTRL	2
1001710204	30	100 Ohms	1.000	15	CTRL TO CTRL	2

- NOTES:
- MATERIAL:  
 HOUSING - 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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS <b>mm</b>	SCALE <b>5:1</b>	CURRENT REV DESC:	<b>molex</b>		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 601091			
ANGULAR TOL ± 1.0°	4 PLACES ±	DRWN: HLIN24 2017/09/12	PRODUCT CUSTOMER DRAWING		
3 PLACES ±	3 PLACES ±	CHK'D: VPENG01 2018/07/11	DOCUMENT NUMBER	DOC TYPE	DOC PART
2 PLACES ± 0.13	2 PLACES ± 0.13	APPR: VPENG01 2018/07/11	1001710100	PSD	000
1 PLACE ± 0.25	1 PLACE ± 0.25	INITIAL REVISION:	REVISION		
0 PLACES ±	0 PLACES ±	DRWN: HLIN24 2017/09/12	D		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: VPENG01 2018/07/11	SHEET NUMBER		
THIRD ANGLE PROJECTION		DRAWING	MATERIAL NUMBER		CUSTOMER
D-SIZE		SERIES	GENERAL MARKET		1 OF 4
		100171			

PINOUT 1

	P1		P2		
	GND	D9	N/C	B9	GND
	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

CONTROLLER

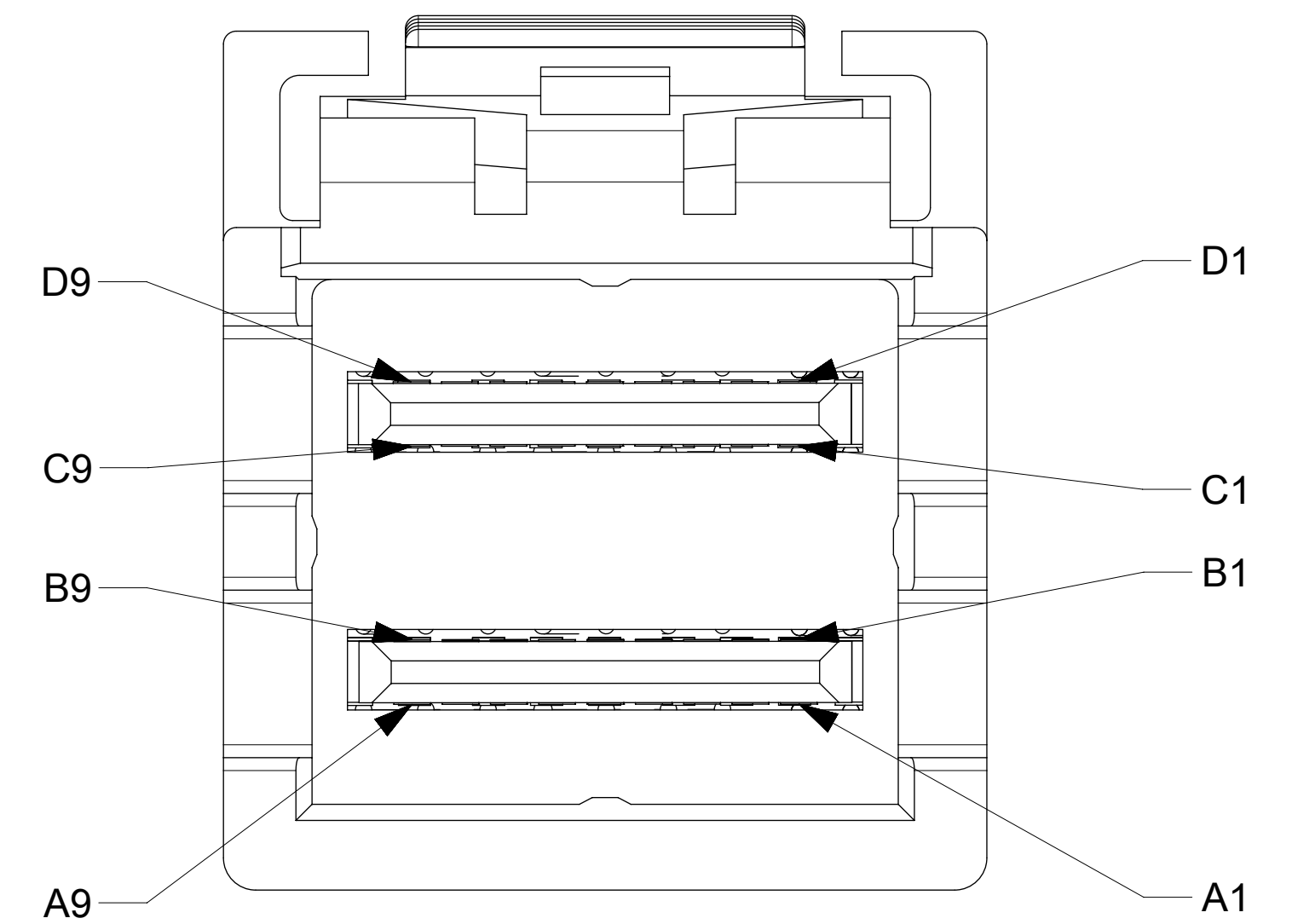
BACKPLANE

PINOUT 2

	P1		P2		
	GND	D9	N/C	B9	GND
	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

CONTROLLER

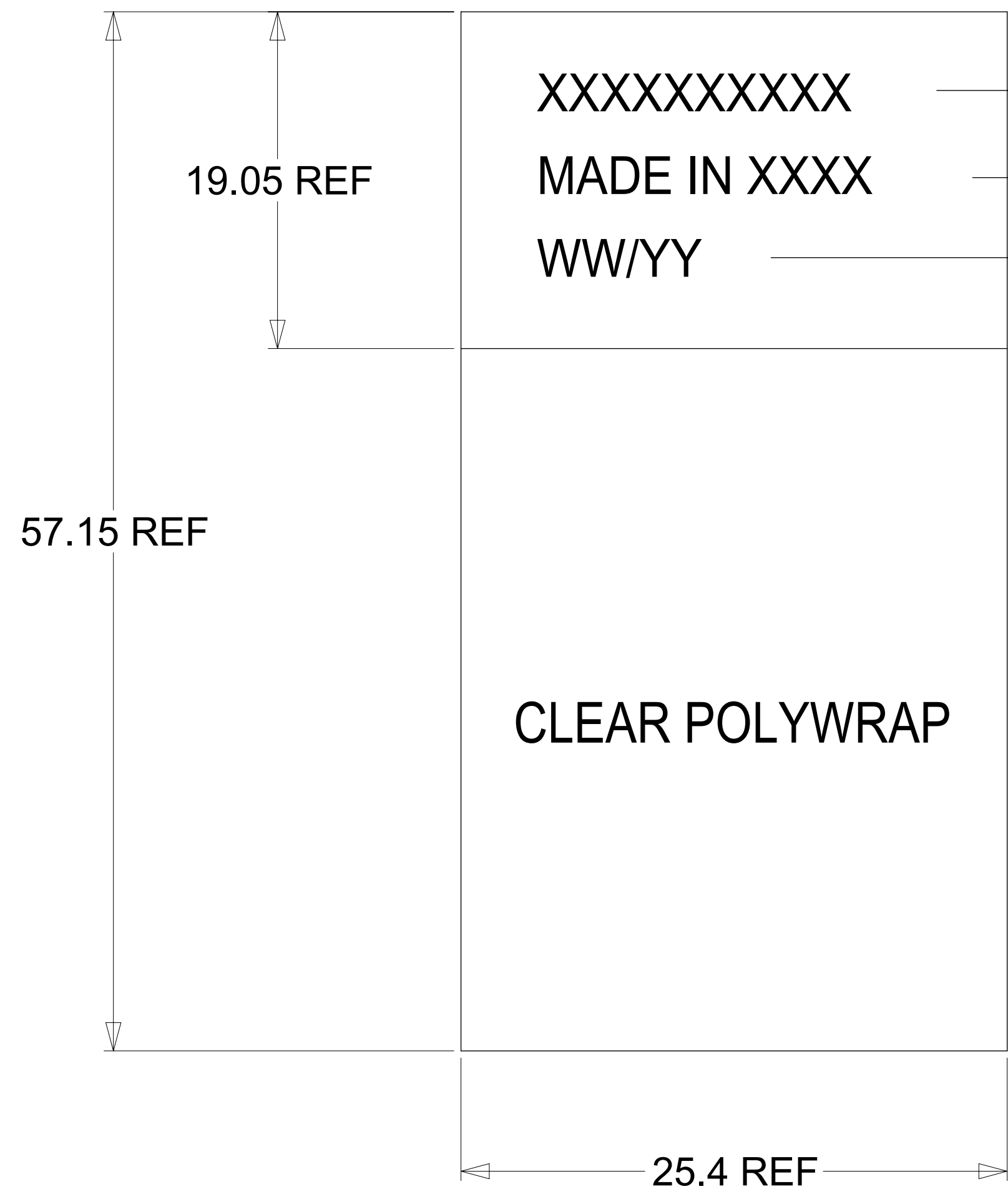
CONTROLLER



LEGEND:  
 <-----> = SIDEBAND  
 -----> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS  
 ----- = GND

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC:					
mm		10:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 601091					
ANGULAR TOL ± 1.0°				DRWN: HLIN24 2017/09/12					
4 PLACES ±				CHK'D: VPENG01 2018/07/11					
3 PLACES ±				APPR: VPENG01 2018/07/11					
2 PLACES ± 0.13				INITIAL REVISION:					
1 PLACE ± 0.25				DRWN: HLIN24 2017/09/12					
0 PLACES ±				APPR: VPENG01 2018/07/11					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				D-SIZE		100171		CUSTOMER	
								GENERAL MARKET	
DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION	
1001710100				PSD		000		D	
DOCUMENT STATUS		P1		RELEASE DATE		2018/07/11		20:14:54	

**LABEL DETAIL**



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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC:				<b>molex</b>	
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 601091				HD 4X RAD TO HD 4X STR	
ANGULAR TOL ± 1.0°				DRWN: HLIN24 2017/09/12					
4 PLACES ±				CHK'D: VPENG01 2018/07/11				PRODUCT CUSTOMER DRAWING	
3 PLACES ±				APPR: VPENG01 2018/07/11					
2 PLACES ± 0.13				INITIAL REVISION:				DOCUMENT NUMBER	
1 PLACE ± 0.25				DRWN: HLIN24 2017/09/12					
0 PLACES ±				APPR: VPENG01 2018/07/11				1001710100	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				D-SIZE		100171		CUSTOMER	
								GENERAL MARKET	
								SHEET NUMBER	
								3 OF 4	

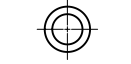
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

L K J H G F E D C B A

DATE	REV	DESCRIPTION
2018/07/06	D	CHANGE UNIVERSAL TYPE

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	1:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ±	1.0°
4 PLACES ±	
3 PLACES ±	
2 PLACES ±	0.13
1 PLACE ±	0.25
0 PLACES ±	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:			
EC NO: 601091			
DRWN: HLIN24		2017/09/12	
CHK'D: VPENG01		2018/07/11	
APPR: VPENG01		2018/07/11	
INITIAL REVISION:			
DRWN: HLIN24		2017/09/12	
APPR: VPENG01		2018/07/11	
THIRD ANGLE PROJECTION	DRAWING	SERIES	
	D-SIZE	100171	

molex

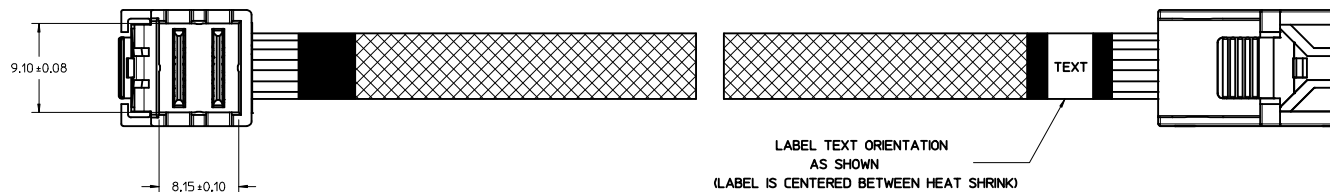
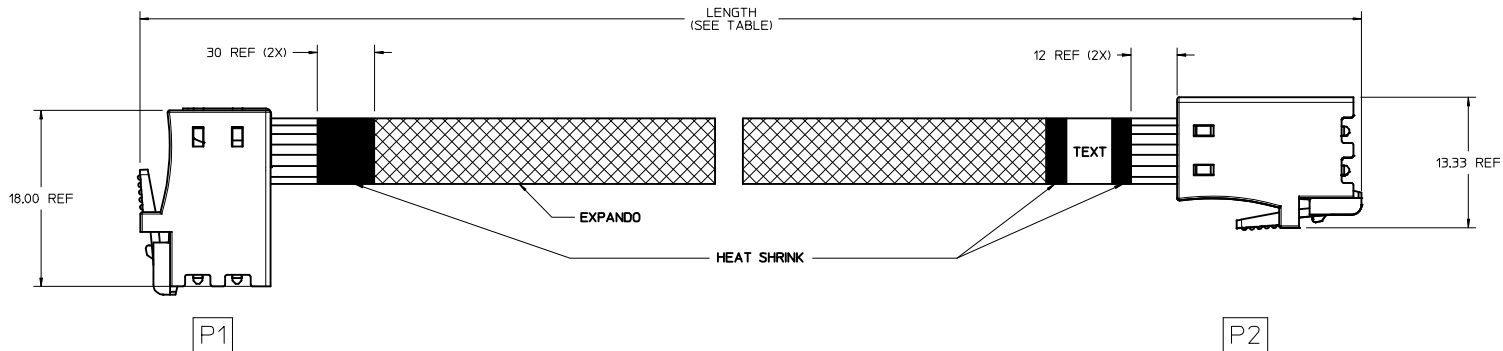
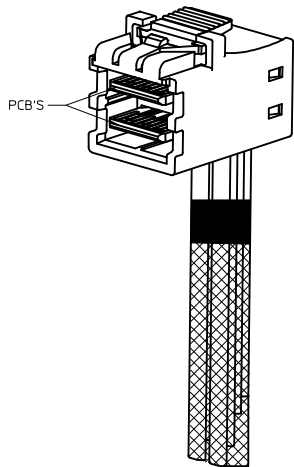
HD 4X RAD TO HD 4X STR

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1001710100	PSD	000	D

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	4 OF 4

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



MOLEX P/N	AWG	LENGTH (M)	TOLERANCE (±mm)	DESCRIPTION	PINOUT
1001710100	30	0.152	10	CTRL TO BP	1
1001710101	30	0.300	10	CTRL TO BP	1
1001710102	30	0.500	10	CTRL TO BP	1
1001710103	30	0.600	10	CTRL TO BP	1
1001710104	30	1.000	15	CTRL TO BP	1
1001710200	30	0.152	10	CTRL TO CTRL	2
1001710201	30	0.300	10	CTRL TO CTRL	2
1001710202	30	0.500	10	CTRL TO CTRL	2
1001710203	30	0.600	10	CTRL TO CTRL	2
1001710204	30	1.000	15	CTRL TO CTRL	2

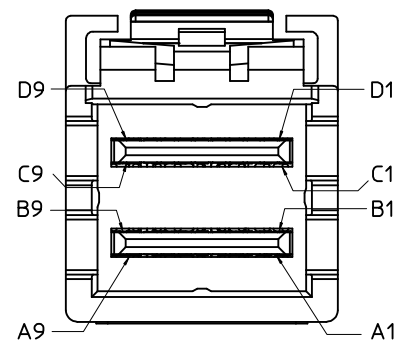
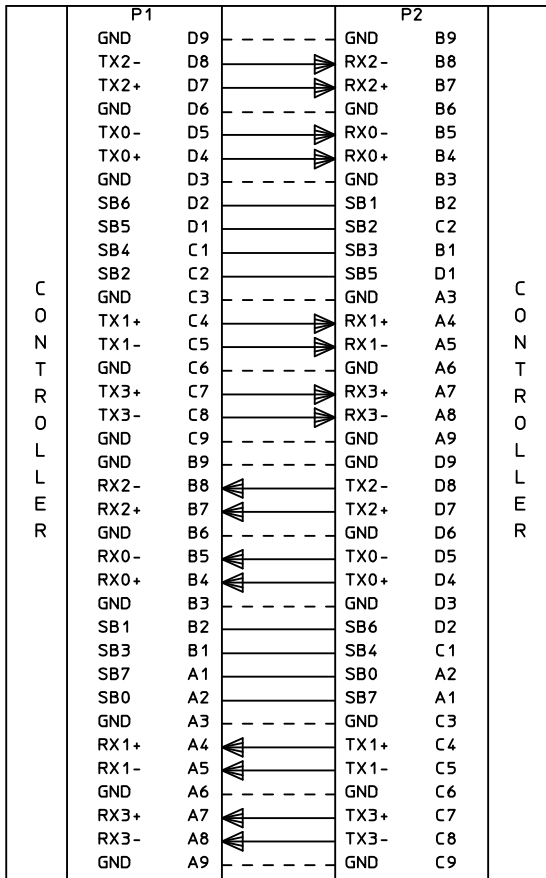
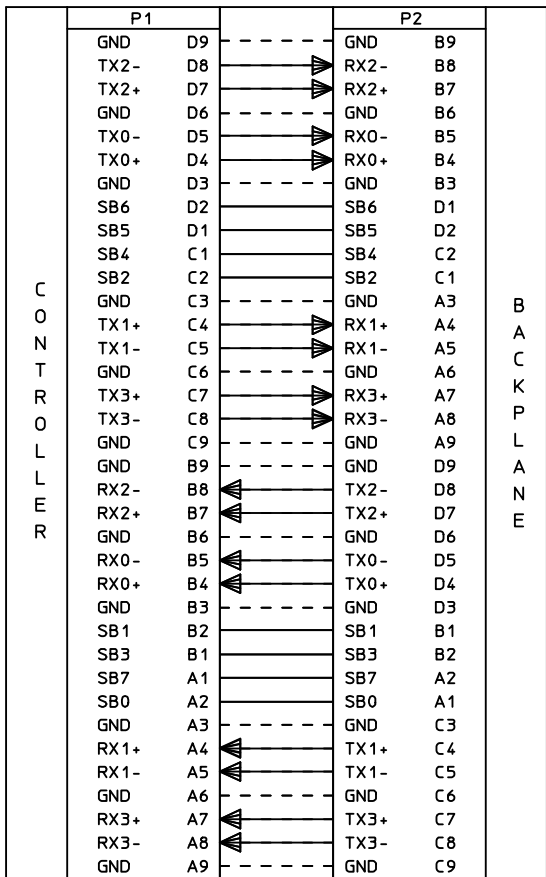
NOTES:

- 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

REVISE PINOUT IEC NO. CPG2015-5096 DRAWN BY DRWN:PSYTSMA 2014/06/17 CHKD:CHIRSCHY 2015/05/28 APPR:CHIRSCHY 2015/06/01 REV DESCRIPTION	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 ± mm				
	▽=0	2 PLACES ± 0.13				
		ANGULAR ± 1°				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
			DRAWN BY	DATE	TITLE	
			TPRATT	2014/02/17	4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CABLE ASSY 100 OHM	
			CHECKED BY	DATE		
			PSYTSMA	2014/02/17		
			APPROVED BY	DATE		
			CHIRSCHY	2014/03/21		
			MATERIAL NO.	DOCUMENT NO.		
			SEE P/N TABLE	SD-100171-0100		
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			SHEET NO.
						1 OF 3

PINOUT 1

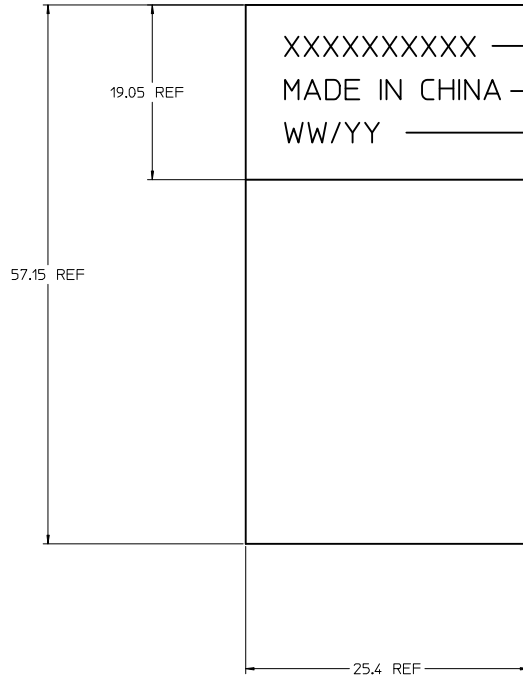
PINOUT 2



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

UPDATE PINOUT IEC NO: CPG2015-5096 DRAWN BY: PSYTSMA 2014/06/17 CHECKED BY: CHYKCHIRSCHY 2015/05/28 APPR: CHIRSCHY 2015/06/01 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	4:1	METRIC	☉
	▽=0	4 PLACES ± --- ± ---	DRAWN BY: TPRATT DATE: 2014/02/17	TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CABLE ASSY 100 OHM		
	▽=0	3 PLACES ± --- ± ---	CHECKED BY: PSYTSMA DATE: 2014/02/17	<b>molex</b> MATERIAL NO. DOCUMENT NO. SD-100171-0100 SHEET NO. 2 OF 3		
	ANGULAR ± 1°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY: CHIRSCHY DATE: 2014/03/21	SEE P/N TABLE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

**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

UPDATE PINOUT IEC NO: CPG2015-5096 DRAWN BY: PSYTSMA 2014/06/17 CHECKED BY: CHYKCHIRSCHY 2015/05/28 APPR: CHIRSCHY 2015/06/01 REV:	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽=0	mm INCH	MM ONLY	4:1	METRIC	☉	
	▽=0	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± --- ± ---	DRAWN BY DATE TPRATT 2014/02/17	TITLE 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CABLE ASSY 100 OHM			
	▽=0	ANGULAR ± 1 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY DATE PSYTSMA 2014/02/17	APPROVED BY DATE CHIRSCHY 2014/03/21 MATERIAL NO. SEE P/N TABLE DOCUMENT NO. SD-100171-0100			
			SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

SHEET NO.  
3 OF 3