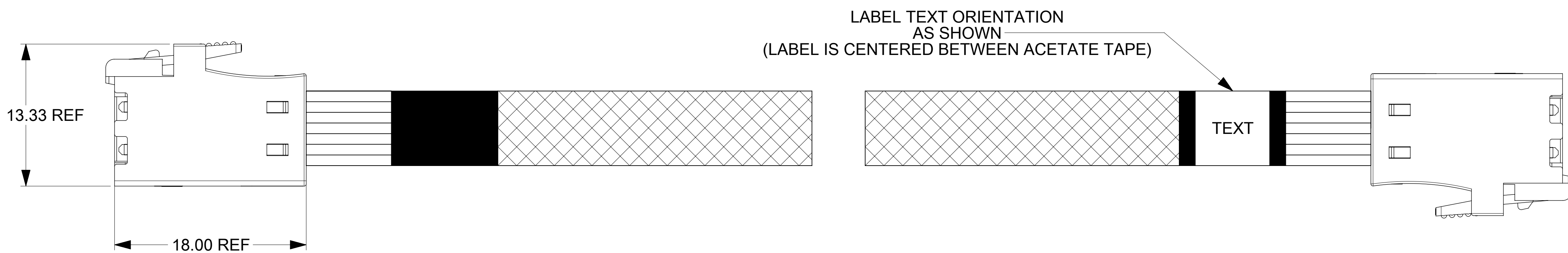
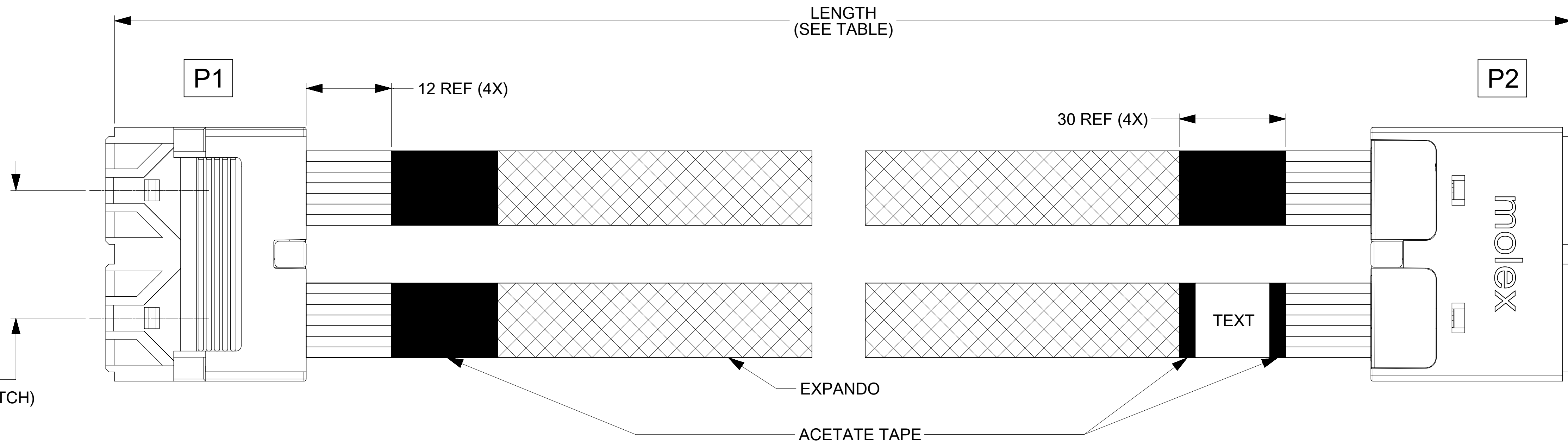


12.0 ±0.1 TYP
(PORT TO PORT PITCH)



MOLEX P/N	AWG	IMPEDANCE	LENGTH (mm)	TOLERANCE (±mm)	DESCRIPTION	PINOUT
1001900100	30	100 OHM	152	10	CTRL TO BP	1
1001900101	30	100 OHM	300	10	CTRL TO BP	1
1001900102	30	100 OHM	500	10	CTRL TO BP	1
1001900103	30	100 OHM	600	10	CTRL TO BP	1
1001900104	30	100 OHM	1000	15	CTRL TO BP	1
1001900105	30	100 OHM	191	10	CTRL TO BP	1
1001900200	30	100 OHM	152	10	CTRL TO CTRL	2
1001900201	30	100 OHM	300	10	CTRL TO CTRL	2
1001900202	30	100 OHM	500	10	CTRL TO CTRL	2
1001900203	30	100 OHM	600	10	CTRL TO CTRL	2
1001900204	30	100 OHM	1000	15	CTRL TO CTRL	2

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

DIMENSION UNITS mm	SCALE 4:1	CURRENT REV DESC:		molex		
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 600854				
ANGULAR TOL ± °		DRWN: THSU 2018/06/19		PRODUCT CUSTOMER DRAWING		
4 PLACES ±		CHK'D: VPENG01 2018/07/02		DOCUMENT NUMBER		
3 PLACES ±		APPR: VPENG01 2018/07/02		1001900100		
2 PLACES ±		INITIAL REVISION:		DOC TYPE		
1 PLACE ±		DRWN: LOU01 2017/11/27		PSD		
0 PLACES ±		APPR: VPENG01 2018/05/07		DOC PART		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
			D-SIZE	100190	SEE P/N TABLE	GENERAL MARKET
						SHEET NUMBER
						1 OF 4

- 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

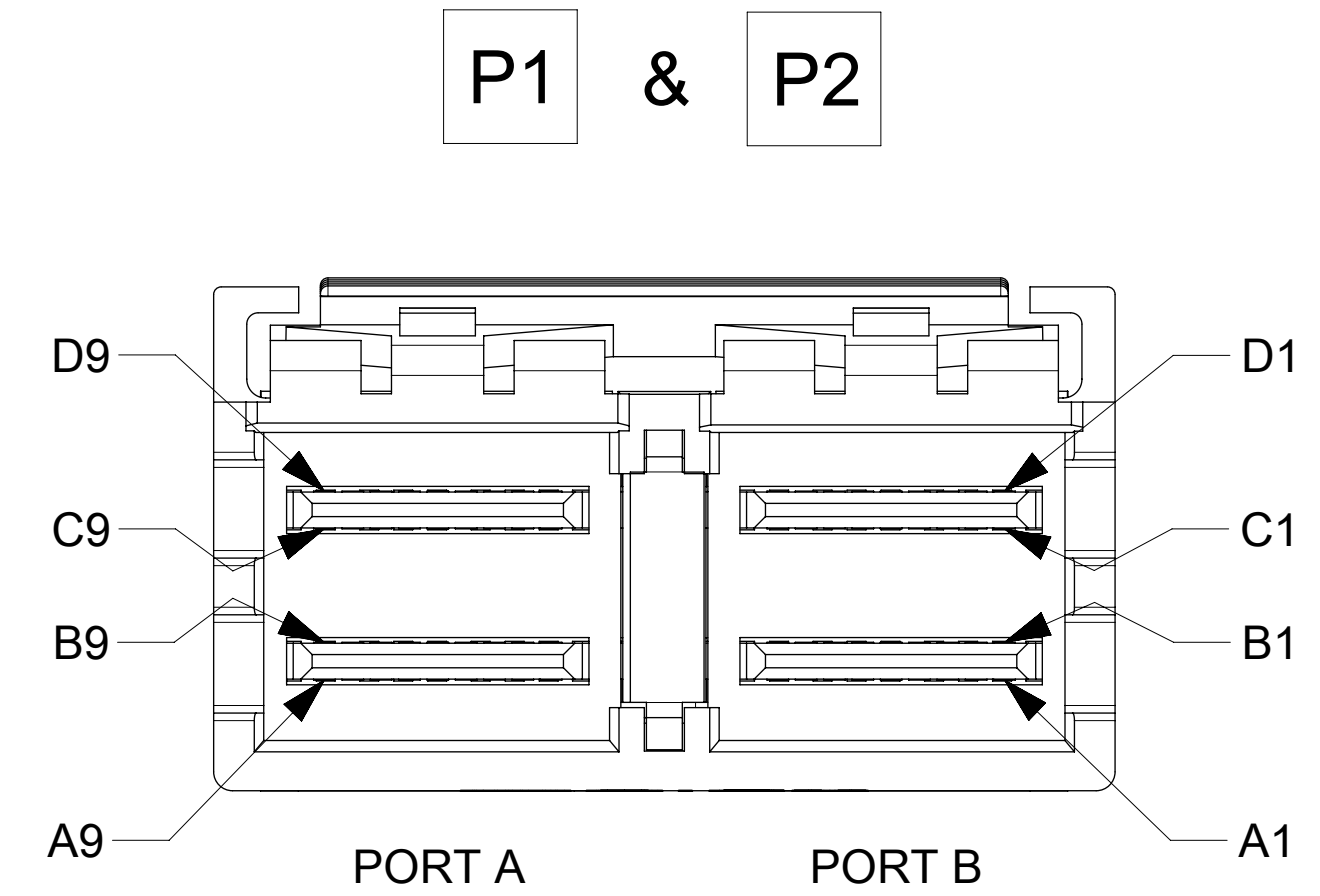
DOCUMENT STATUS	P1	RELEASE DATE	2018/07/02	15:24:26
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PINOUT 1

PINOUT 2

	P1		NC	P2	
		GND		D9	B9
	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	NC	A9	GND
	GND	B9	NC	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	NC	C9	GND

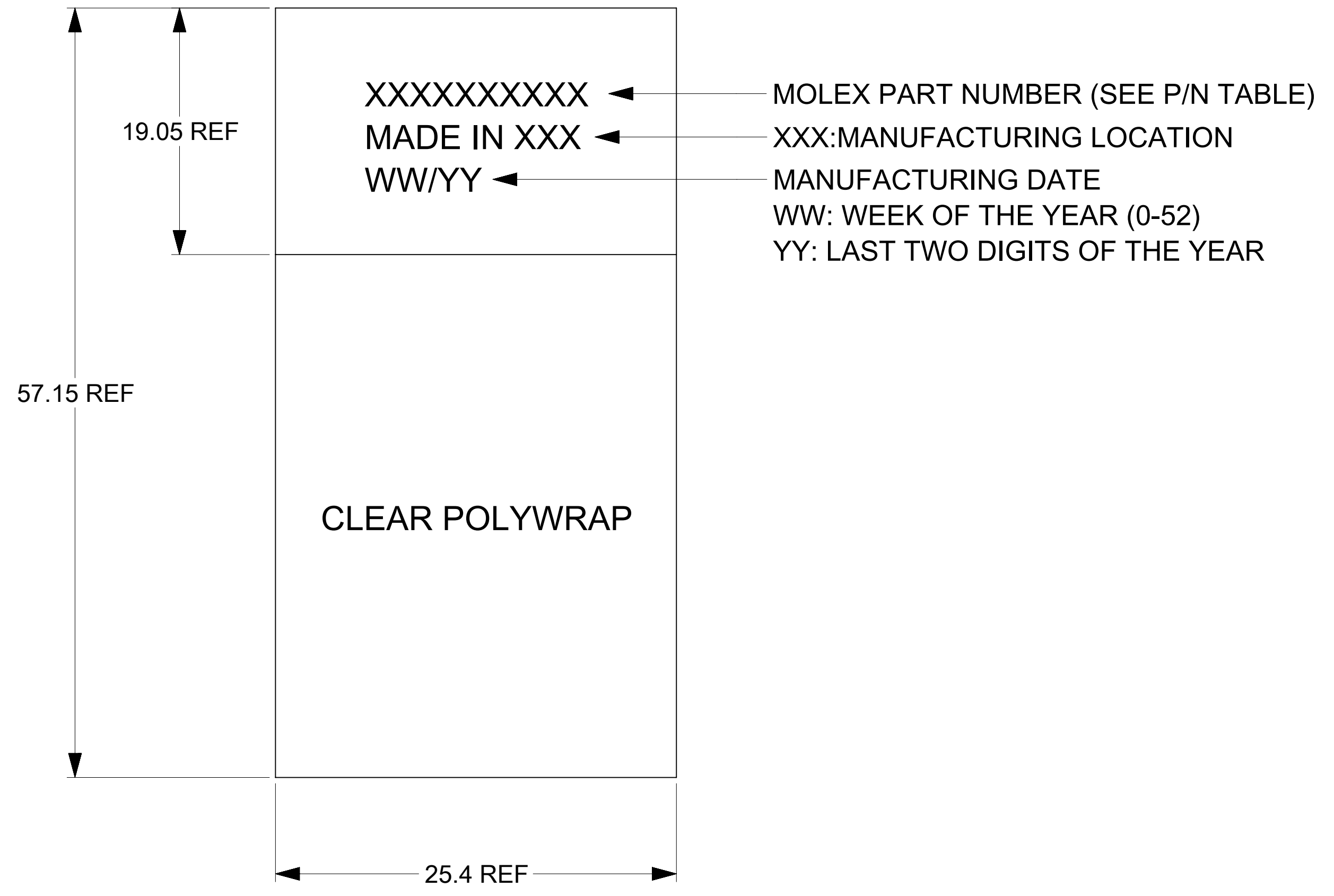
	P1		NC	P2	
		GND		D9	B9
	TX2-	D8	→	B8	RX2-
	TX2+	D7	→	B7	RX2+
	GND	D6	——	B6	GND
	TX0-	D5	→	B5	RX0-
	TX0+	D4	→	B4	RX0+
	GND	D3	——	B3	GND
	SB6	D2	-----	B2	SB1
	SB5	D1	-----	C2	SB2
	SB4	C1	-----	B1	SB3
	SB2	C2	-----	D1	SB5
	GND	C3	——	A3	GND
	TX1+	C4	→	A4	RX1+
	TX1-	C5	→	A5	RX1-
	GND	C6	——	A6	GND
	TX3+	C7	→	A7	RX3+
	TX3-	C8	→	A8	RX3-
	GND	C9	——	A9	GND
	GND	B9	NC	D9	GND
	RX2-	B8	NC	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	NC	C9	GND



LEGEND:
 ——— = GROUND LINES
 ----- = THRU LINES
 ———> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS
 PORT A ——— PORT B
 PORT B ——— PORT A

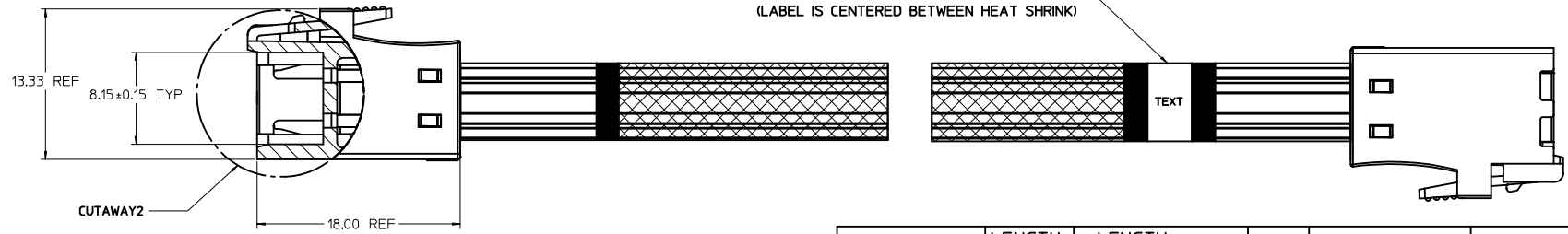
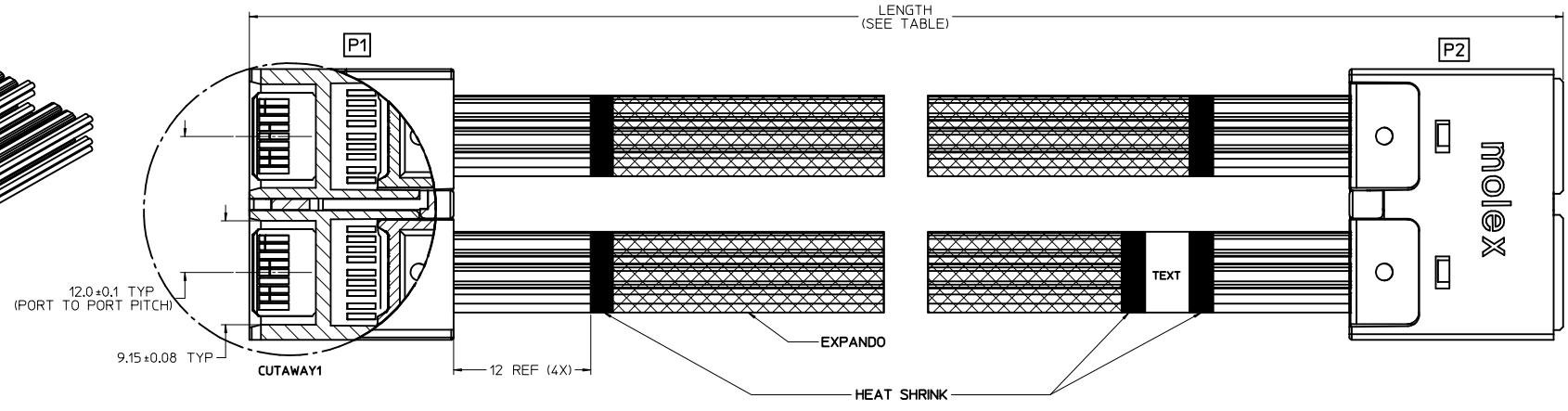
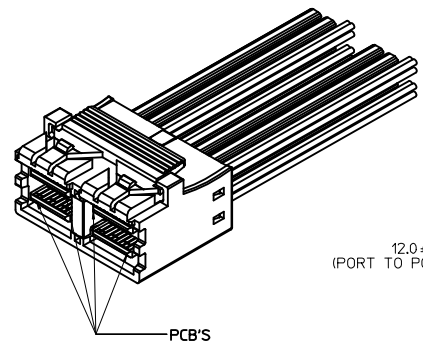
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC:					
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 600854				8X INT HD SHORT BODY STRAIGHT CBL ASSY	
ANGULAR TOL ± °				DRWN: THSU 2018/06/19					
4 PLACES ±				CHK'D: VPENG01 2018/07/02				PRODUCT CUSTOMER DRAWING	
3 PLACES ±				APPR: VPENG01 2018/07/02					
2 PLACES ±				INITIAL REVISION:				DOCUMENT NUMBER: 1001900100	
1 PLACE ±				DRWN: LOU01 2017/11/27					
0 PLACES ±				APPR: VPENG01 2018/05/07				DOC TYPE: PSD DOC PART: 000 REVISION: C	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				D-SIZE		100190		CUSTOMER	
						SEE P/N TABLE		GENERAL MARKET	
								SHEET NUMBER	
								2 OF 4	

LABEL DETAIL



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:				molex	
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 600854				8X INT HD SHORT BODY STRAIGHT CBL ASSY	
ANGULAR TOL ± °				DRWN: THSU 2018/06/19					
4 PLACES ±				CHK'D: VPENG01 2018/07/02				PRODUCT CUSTOMER DRAWING	
3 PLACES ±				APPR: VPENG01 2018/07/02					
2 PLACES ±				INITIAL REVISION:				DOCUMENT NUMBER	
1 PLACE ±				DRWN: LOU01 2017/11/27					
0 PLACES ±				APPR: VPENG01 2018/05/07				DOC TYPE	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		REVISION	
				D-SIZE		100190		1001900100 SEE P/N TABLE	
						CUSTOMER		SHEET NUMBER	
						GENERAL MARKET		3 OF 4	

TM-100190-0100



LABEL TEXT ORIENTATION
AS SHOWN
(LABEL IS CENTERED BETWEEN HEAT SHRINK)

MOLEX P/N	LENGTH (M)	LENGTH TOLERANCE (mm)	AWG	DESCRIPTION	PINOUT
1001900100	0.152	±10	30	CTRL TO BP	1
1001900101	0.300	±10	30	CTRL TO BP	1
1001900102	0.500	±10	30	CTRL TO BP	1
1001900103	0.600	±10	30	CTRL TO BP	1
1001900104	1.000	±15	30	CTRL TO BP	1
1001900200	0.152	±10	30	CTRL TO CTRL	2
1001900201	0.300	±10	30	CTRL TO CTRL	2
1001900202	0.500	±10	30	CTRL TO CTRL	2
1001900203	0.600	±10	30	CTRL TO CTRL	2
1001900204	1.000	±15	30	CTRL TO CTRL	2

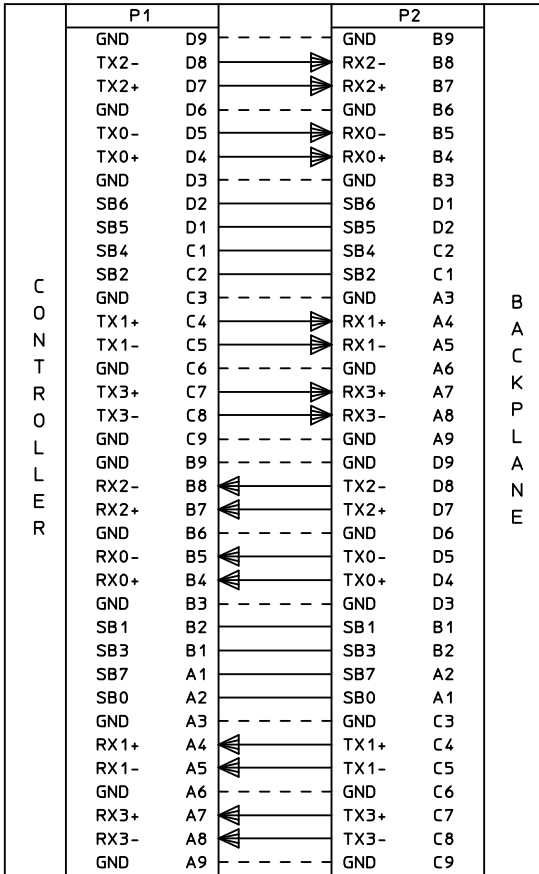
NOTES:

- MATERIAL:
HOUSING - NYLON UL94 V-0
LATCH - MOLDED INTO HOUSING
CABLE:
TWIN-AX SHIELD: ALUMINIZED POLYESTER FOIL
INNER DIELECTRIC: FEP
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.

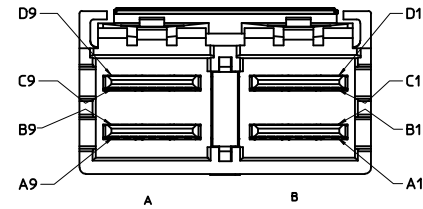
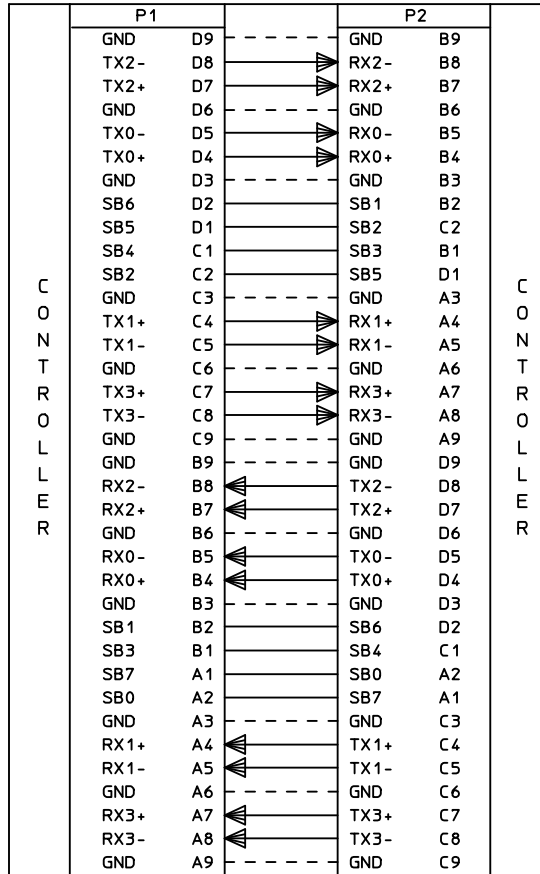
INITIAL RELEASE EC NO: CPG2014-0206 DRAWN BY: EMEDINA CHECKED BY: PSYSTMA APPR: CHIRSCHY DATE: 2013/06/07 DATE: 2013/06/24 DATE: 2014/04/24	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ±--- ±---	DRAWN BY: EMEDINA DATE: 2013/06/07 CHECKED BY: PSYSTMA DATE: 2013/06/24 APPROVED BY: CHIRSCHY DATE: 2014/04/24	TITLE 8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY		MATERIAL NO. SEE P/N TABLE		DOCUMENT NO. SD-100190-0100

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

PINOUT 1



PINOUT 2

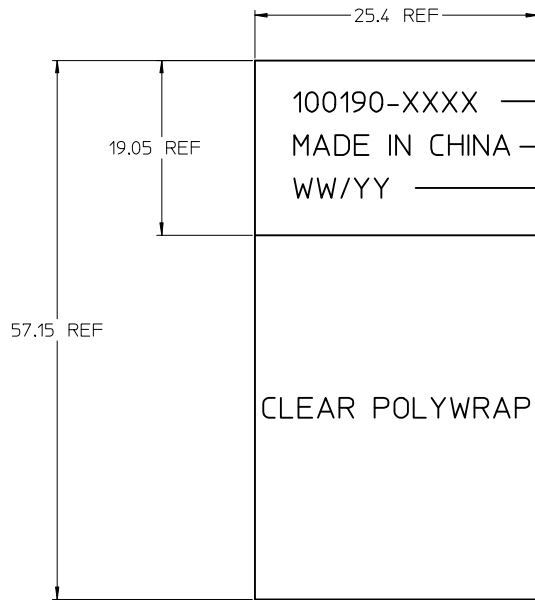


----- = THRU LINES
 -----> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS

NOTE:
 THESE PINOUTS ARE DUPLICATED FOR BOTH PORTS.

INITIAL RELEASE EC NO: CPG2014-0206 DRAWN BY: EMEDINA CHECKED BY: PSYSTMA APPROVED BY: CHIRSCHY	2013/06/07	2013/06/24	2014/04/24	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
					mm	INCH	MM ONLY	1:1	METRIC			
	4 PLACES	±---	±---		EMEDINA	2013/06/07	TITLE					
	3 PLACES	±---	±---		PSYSTMA	2013/06/24	8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY					
	2 PLACES	±0.13	±---									
	1 PLACE	±0.25	±---									
	0 PLACE	±---	±---									
ANGULAR ±1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
				SEE SHEET 1		SD-100190-0100		2 OF 3				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												

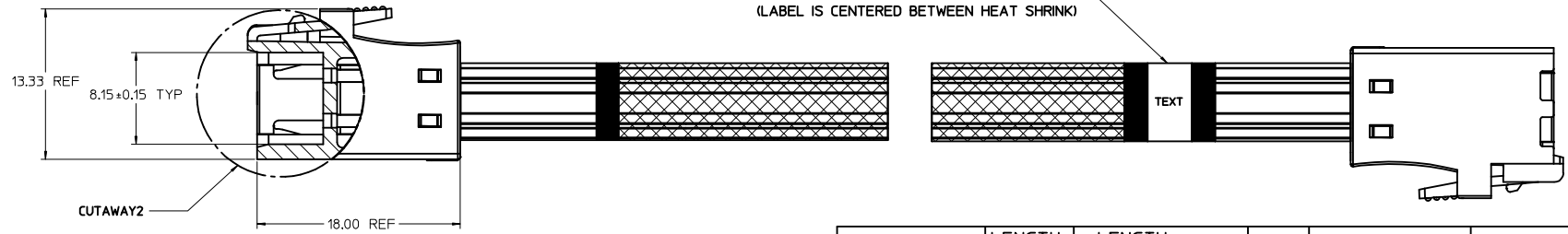
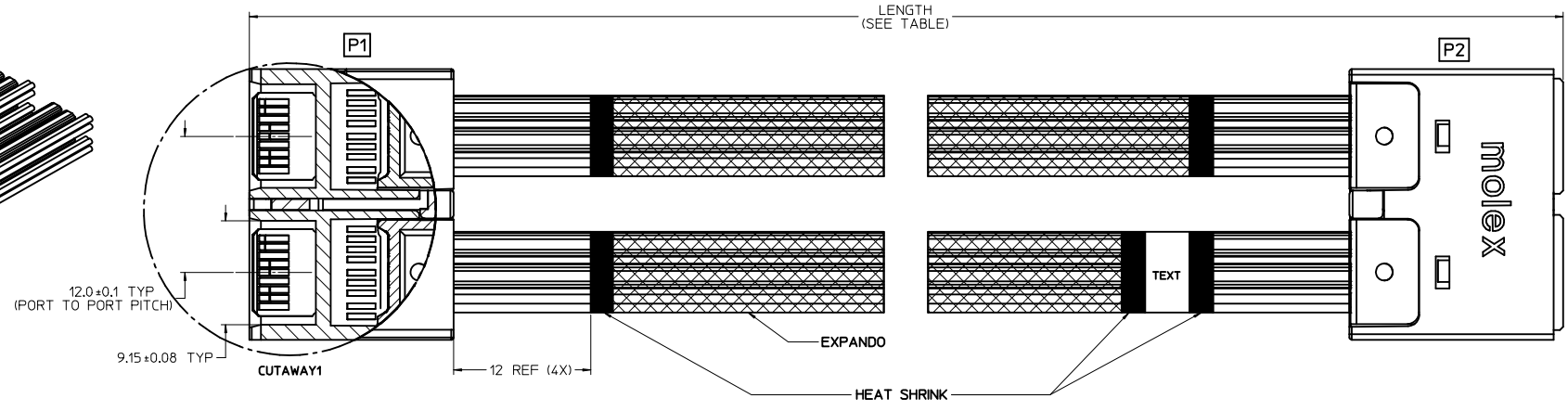
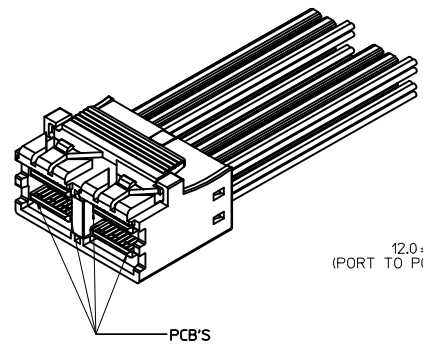
LABEL DETAIL



100190-XXXX — MOLEX PART NUMBER (SEE P/N TABLE)
 MADE IN CHINA — MANUFACTURING LOCATION
 WW/YY — MANUFACTURING DATE
 WW: WEEK OF THE YEAR (0-52)
 YY: LAST TWO DIGITS OF THE YEAR

INITIAL RELEASE IEC NO: CPG2014-0206 DRAWN BY: EMEDINA 2013/06/07 CHECKED BY: PSYSTMA 2013/06/24 APPR: CHIRSCHY 2014/04/24 REV:	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm ± INCH	MM ONLY		METRIC	
	▽=0	3 PLACES ± 0.13 ± 0.005				
	▽=0	2 PLACES ± 0.25 ± 0.010				
		ANGULAR ±1/2°	DRAWN BY: EMEDINA DATE: 2013/06/07			TITLE: 8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY: PSYSTMA DATE: 2013/06/24			molex
			APPROVED BY: CHIRSCHY DATE: 2014/04/24			
			MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-100190-0100	SHEET NO. 3 OF 3
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

TM-100190-0100



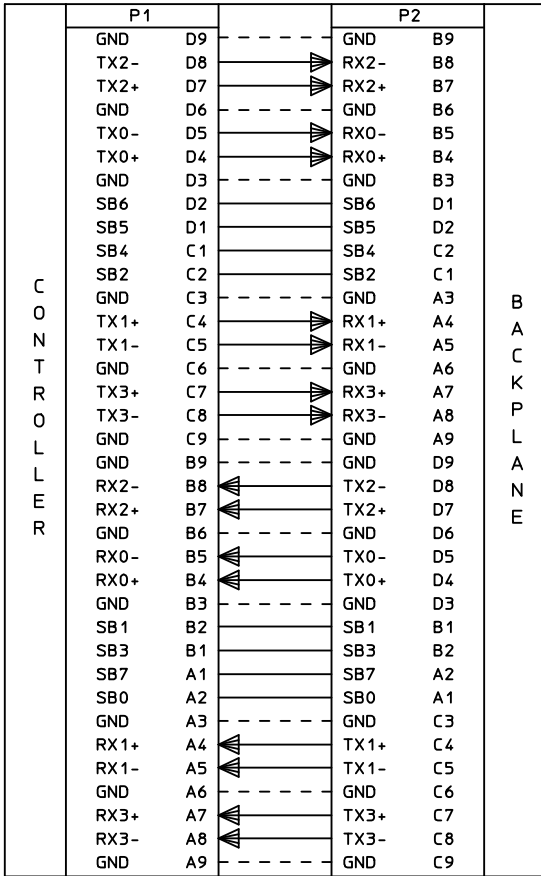
LABEL TEXT ORIENTATION AS SHOWN (LABEL IS CENTERED BETWEEN HEAT SHRINK)

MOLEX P/N	LENGTH (M)	LENGTH TOLERANCE (mm)	AWG	DESCRIPTION	PINOUT
1001900100	0.152	±10	30	CTRL TO BP	1
1001900101	0.300	±10	30	CTRL TO BP	1
1001900102	0.500	±10	30	CTRL TO BP	1
1001900103	0.600	±10	30	CTRL TO BP	1
1001900104	1.000	±15	30	CTRL TO BP	1
1001900200	0.152	±10	30	CTRL TO CTRL	2
1001900201	0.300	±10	30	CTRL TO CTRL	2
1001900202	0.500	±10	30	CTRL TO CTRL	2
1001900203	0.600	±10	30	CTRL TO CTRL	2
1001900204	1.000	±15	30	CTRL TO CTRL	2

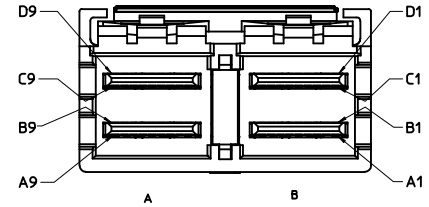
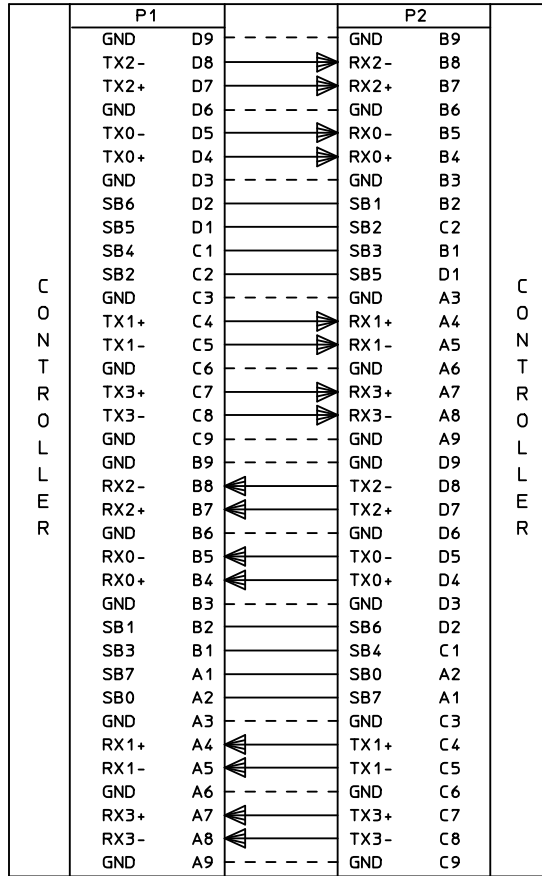
- NOTES:
- MATERIAL:
HOUSING - NYLON UL94 V-0
LATCH - MOLDED INTO HOUSING
CABLE:
TWIN-AX SHIELD: ALUMINIZED POLYESTER FOIL
INNER DIELECTRIC: FEP
SIGNAL AND DRAIN: SOLID COPPER
PCB - FR4 (HALOGEN FREE)
 - THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0.
 - RoHS COMPLIANT, NO EXEMPTIONS.

INITIAL RELEASE IEC NO: CPG2014-0206 DRAWN BY: EMEDINA CHECKED BY: PSYSTMA APPR: CHIRSCHY DATE: 2013/06/07 DATE: 2013/06/14 DATE: 2014/04/24	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 DRAWN BY: EMEDINA DATE: 2013/06/07 CHECKED BY: PSYSTMA DATE: 2013/06/14 APPROVED BY: CHIRSCHY DATE: 2014/04/24		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE P/N TABLE SIZE D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DOCUMENT NO. SD-100190-0100	SHEET NO. 1 OF 3	

PINOUT 1



PINOUT 2

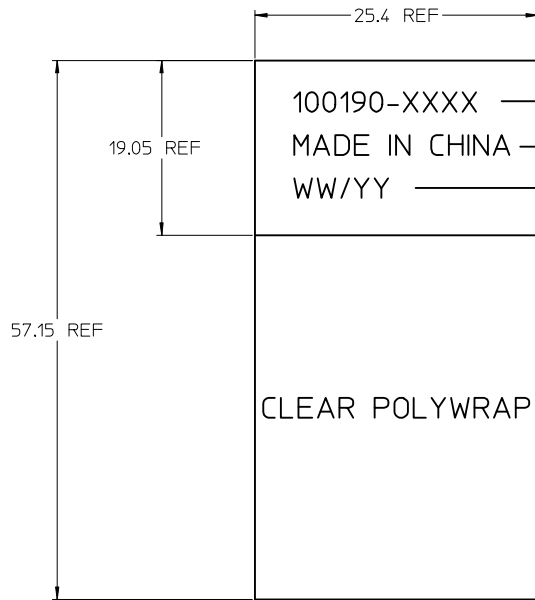


----- = THRU LINES
 -----> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS

NOTE:
 THESE PINOUTS ARE DUPLICATED FOR BOTH PORTS.

INITIAL RELEASE EC NO: CPG2014-0206 DRAWN BY: EMEDINA CHECKED BY: PSYSTMA APPROVED BY: CHIRSCHY DATE: 2013/06/07 DATE: 2013/06/24 DATE: 2014/04/24	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm ± INCH	MM ONLY	1:1	METRIC	
	▽=0	3 PLACES ± 0.13 ± 0.005				
	▽=0	2 PLACES ± 0.25 ± 0.010				
	ANGULAR ±1/2°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: EMEDINA DATE: 2013/06/07 CHECKED BY: PSYSTMA DATE: 2013/06/24 APPROVED BY: CHIRSCHY DATE: 2014/04/24	TITLE: 8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY		
			SEE SHEET 1	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
					SD-100190-0100	2 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

LABEL DETAIL



100190-XXXX — MOLEX PART NUMBER (SEE P/N TABLE)
 MADE IN CHINA — MANUFACTURING LOCATION
 WW/YY — MANUFACTURING DATE
 WW: WEEK OF THE YEAR (0-52)
 YY: LAST TWO DIGITS OF THE YEAR

INITIAL RELEASE IEC NO: CPG2014-0206 DRAWN BY: EMEDINA 2013/06/07 CHECKED BY: PSYSTMA 2013/06/24 APPR: CHIRSCHY 2014/04/24 REV: A	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	4 PLACES ± mm ± INCH	MM ONLY		METRIC	
	▽=0	3 PLACES ± 0.13 ± 0.005				
	▽=0	2 PLACES ± 0.25 ± 0.010				
	ANGULAR ±1/2°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.	DATE	DATE	DATE
			SEE SHEET 1	2013/06/07	2013/06/24	2014/04/24
			SIZE D	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
				DOCUMENT NO.	SHEET NO.	
				SD-100190-0100	3 OF 3	