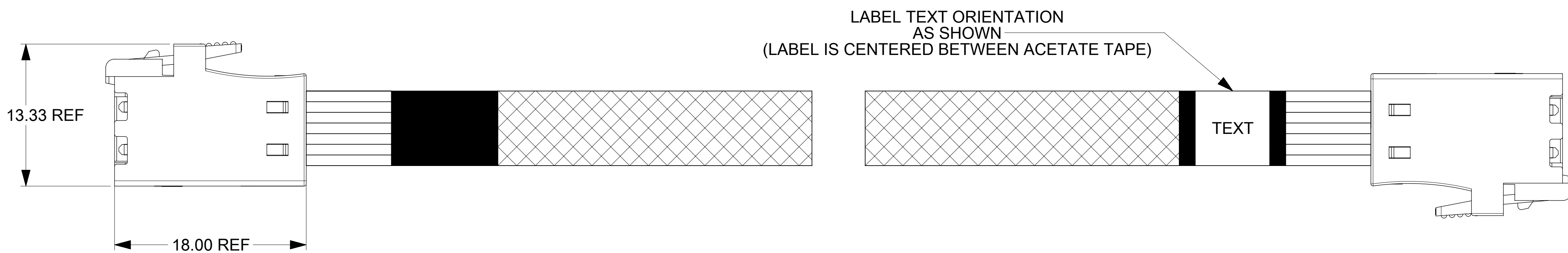
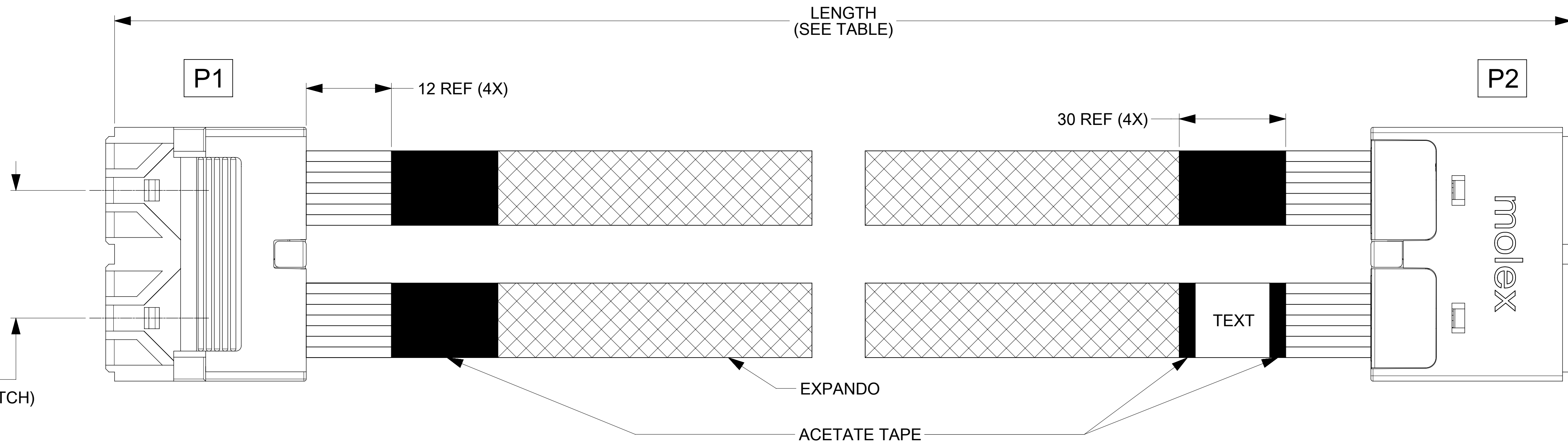


12.0 ±0.1 TYP  
(PORT TO PORT PITCH)



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

NOTES:  
 1. 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)  
 2. THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0  
 3. 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>4:1</b>	CURRENT REV DESC:	<b>molex</b>		
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	DOC TYPE DOC PART REVISION		
2 PLACES ±		INITIAL REVISION:	1001900100 PSD 000 C		
1 PLACE ±		DRWN: LOU01 2017/11/27	MATERIAL NUMBER CUSTOMER		
0 PLACES ±		APPR: VPENG01 2018/05/07	SEE P/N TABLE GENERAL MARKET		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES	SHEET NUMBER	
		<b>D-SIZE</b>	<b>100190</b>	<b>1 OF 4</b>	

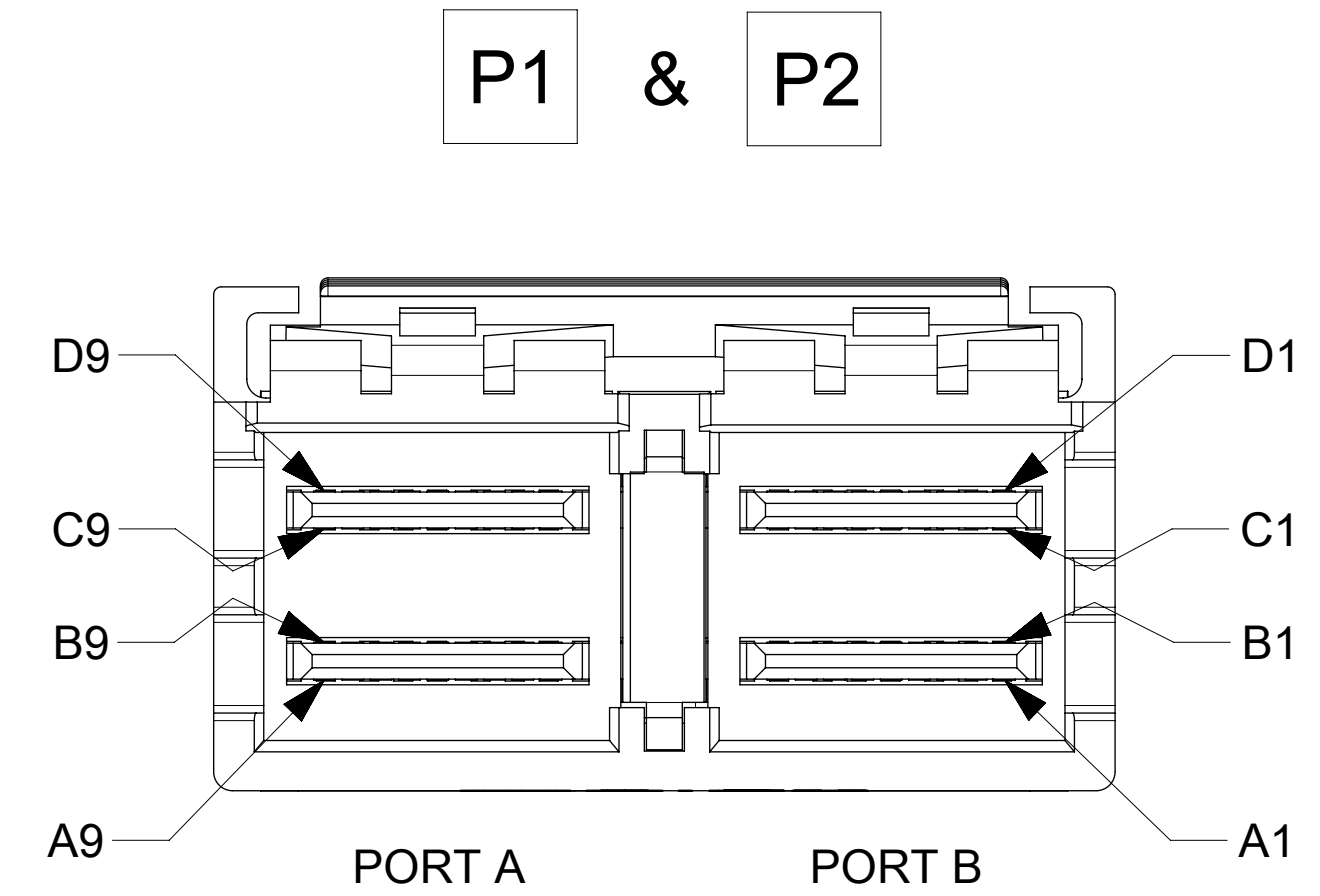
DOCUMENT STATUS	P1	RELEASE DATE	2018/07/02	15:24:26
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PINOUT 1

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

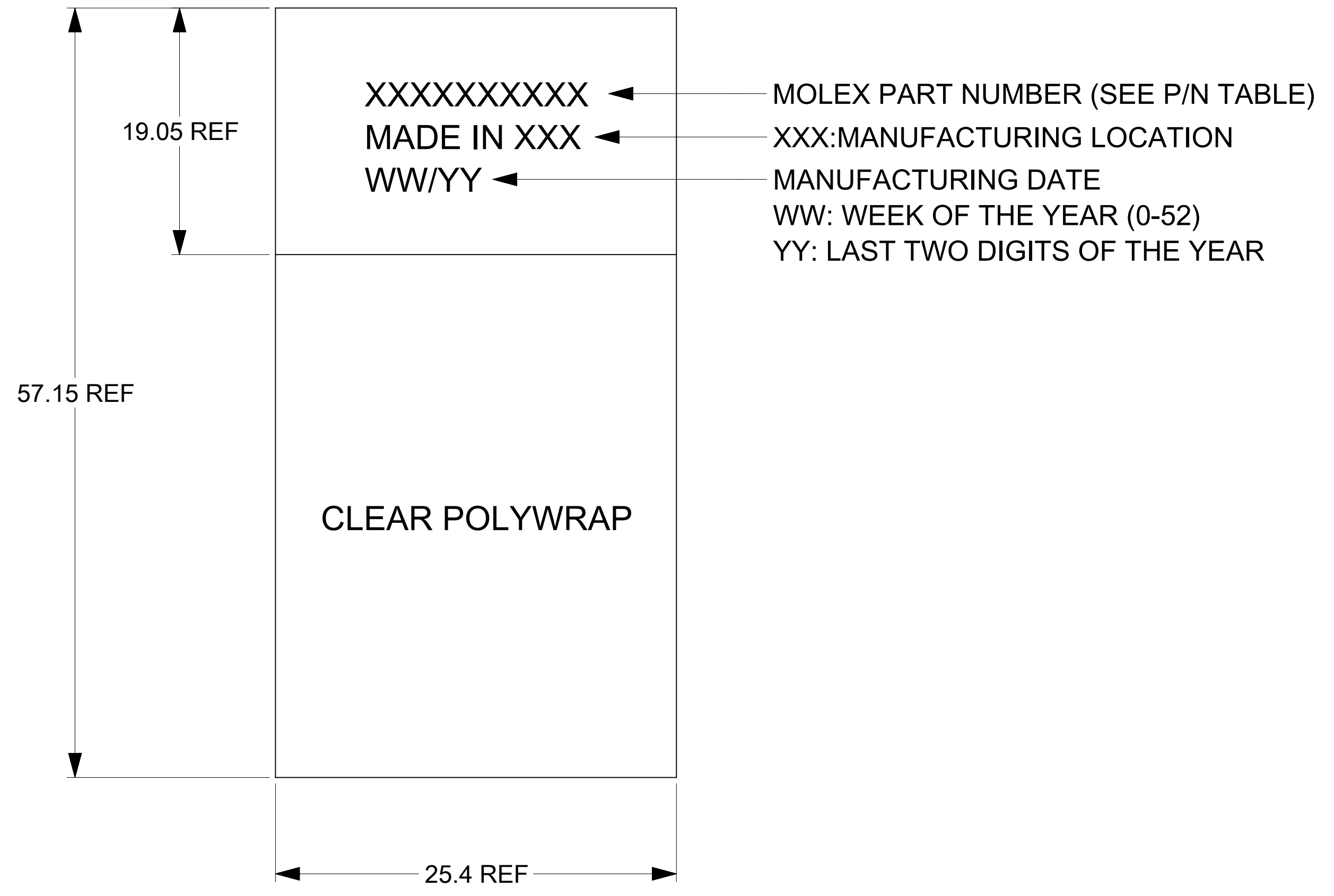


LEGEND:

- = 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					
ANGULAR TOL ± °				DRWN: THSU 2018/06/19					
4 PLACES ±				CHK'D: VPENG01 2018/07/02					
3 PLACES ±				APPR: VPENG01 2018/07/02					
2 PLACES ±				INITIAL REVISION:					
1 PLACE ±				DRWN: LOU01 2017/11/27					
0 PLACES ±				APPR: VPENG01 2018/05/07					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				D-SIZE		100190		SEE P/N TABLE	
				CUSTOMER		GENERAL MARKET		SHEET NUMBER	
								2 OF 4	

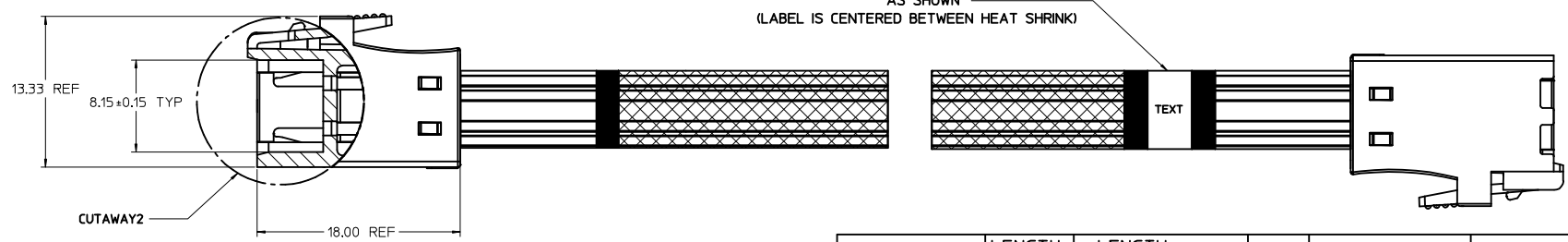
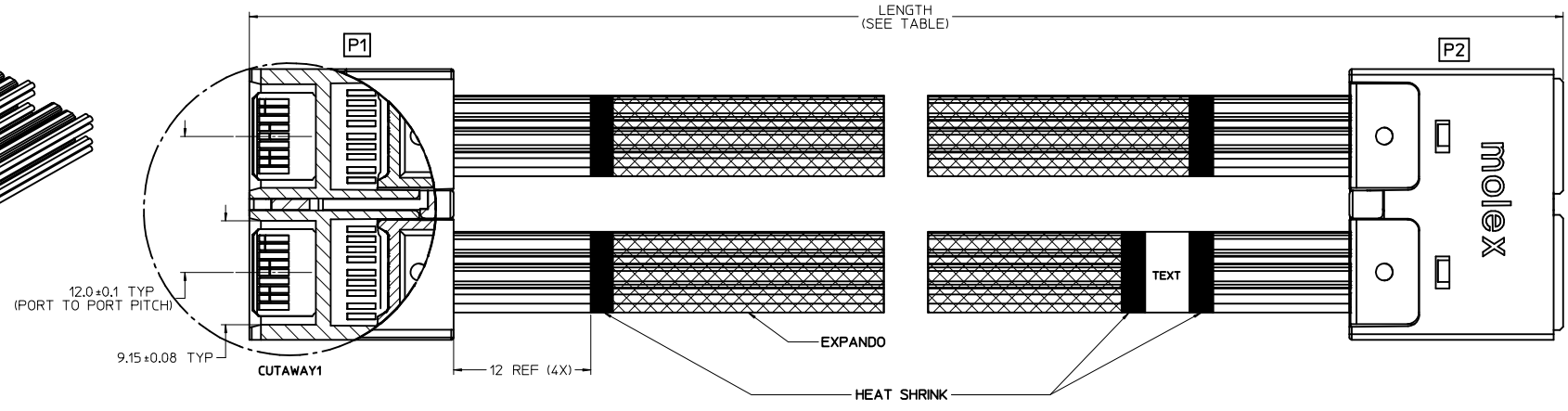
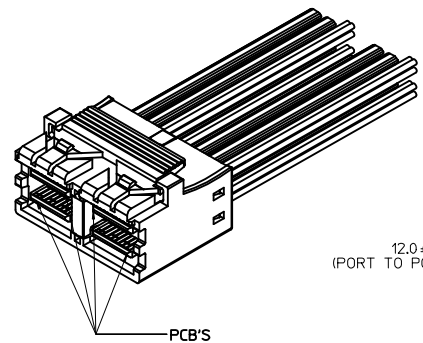
**LABEL DETAIL**



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:				<b>molex</b>	
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	
								PSD 000 C	
								SEE P/N TABLE 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.

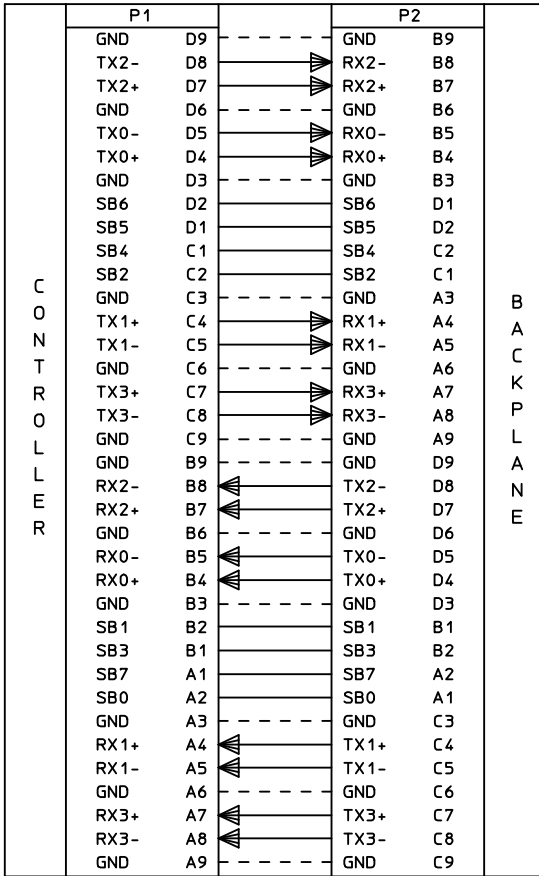
INITIAL RELEASE EC NO: CPG2014-0206 DRAWN BY: EMEDINA CHECKED BY: PSYSTMA APPR: CHIRSCHY DATE: 2013/06/07 DATE: 2013/06/14 DATE: 2014/04/24	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES #--- #--- 3 PLACES #--- #--- 2 PLACES #0.13 #--- 1 PLACE #0.25 #--- 0 PLACE #--- #---		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		SEE P/N TABLE		MATERIAL NO. SD-100190-0100 DOCUMENT NO. SD-100190-0100		SHEET NO. 1 OF 3

8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY

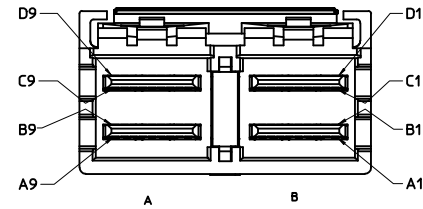
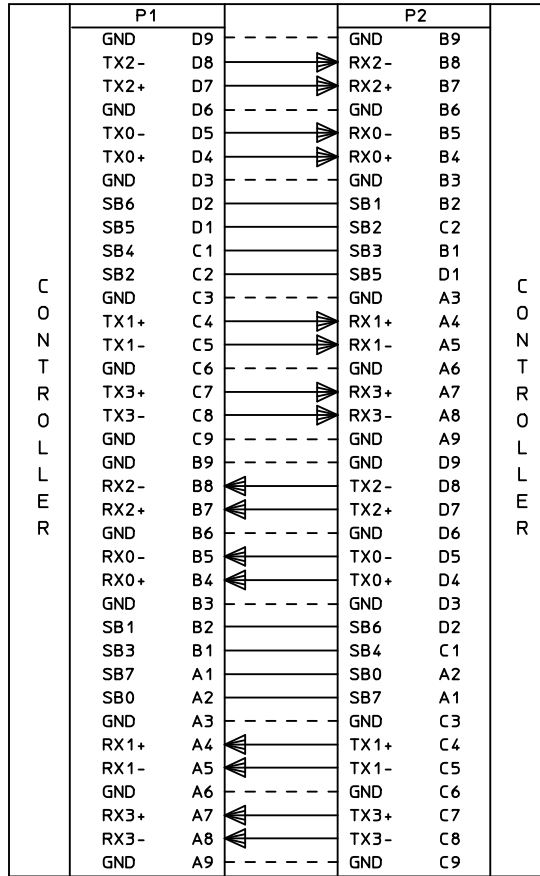


THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

PINOUT 1



PINOUT 2

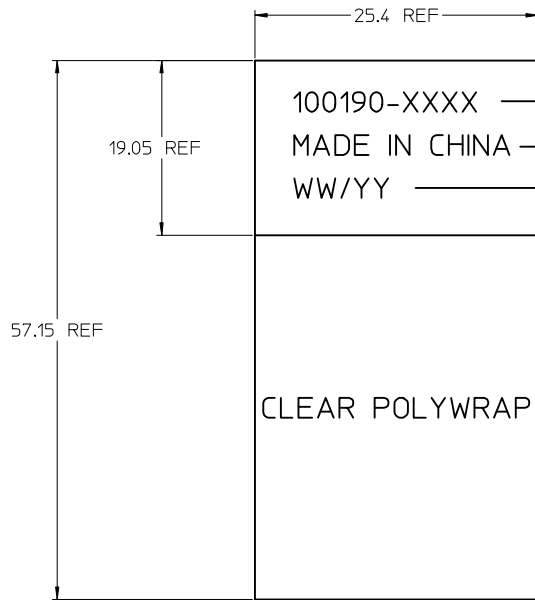


----- = THRU LINES  
 -----> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS

NOTE:  
 THESE PINOUTS ARE DUPLICATED FOR BOTH PORTS.

<b>INITIAL RELEASE</b> 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 ± INCH					
	▽=0	2 PLACES ± 0.25 ± INCH					
		ANGULAR ±1/2°					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
			DRAWN BY: EMEDINA DATE: 2013/06/07			TITLE: 8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY	
			CHECKED BY: PSYSTMA DATE: 2013/06/24			<b>molex</b>	
			APPROVED BY: CHIRSCHY DATE: 2014/04/24				
			MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-100190-0100	SHEET NO. 2 OF 3	
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

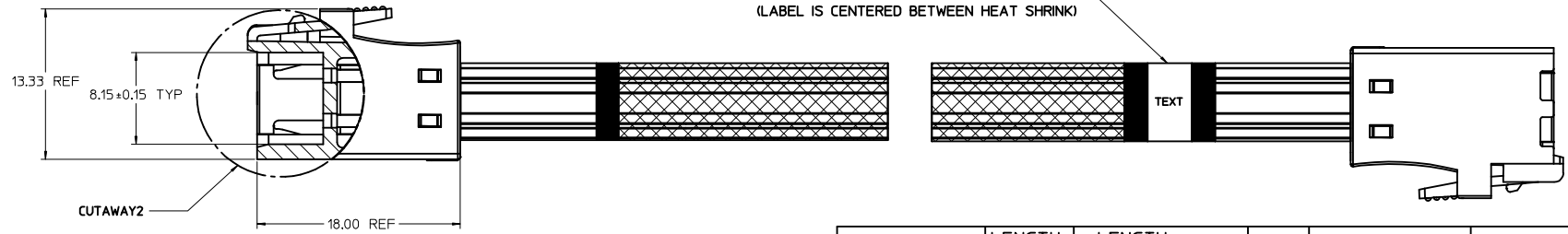
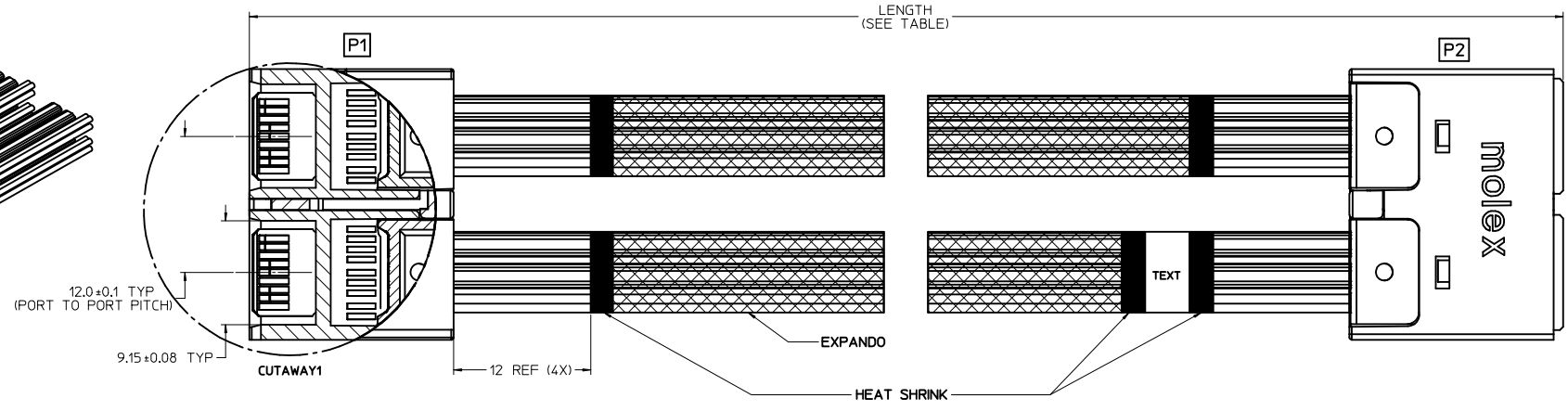
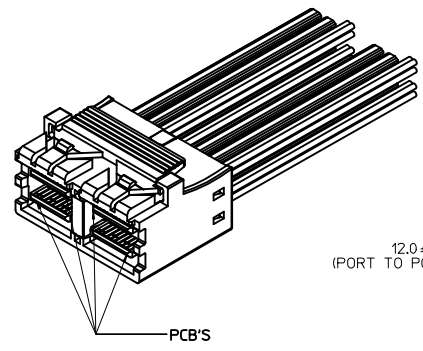
LABEL DETAIL



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 A DRAWN BY: EMEDINA 2013/06/07 CHECKED BY: PSYSTEMA 2013/06/24 APPR: CHIRSCHY 2014/04/24 REV: DESCRIPTION	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	2 PLACES ± 0.25				
		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: PSYSTEMA DATE: 2013/06/24			<b>molex</b>
			APPROVED BY: CHIRSCHY DATE: 2014/04/24			MATERIAL NO. SEE SHEET 1
						DOCUMENT NO. SD-100190-0100
						SHEET NO. 3 OF 3

TM-100190-0100



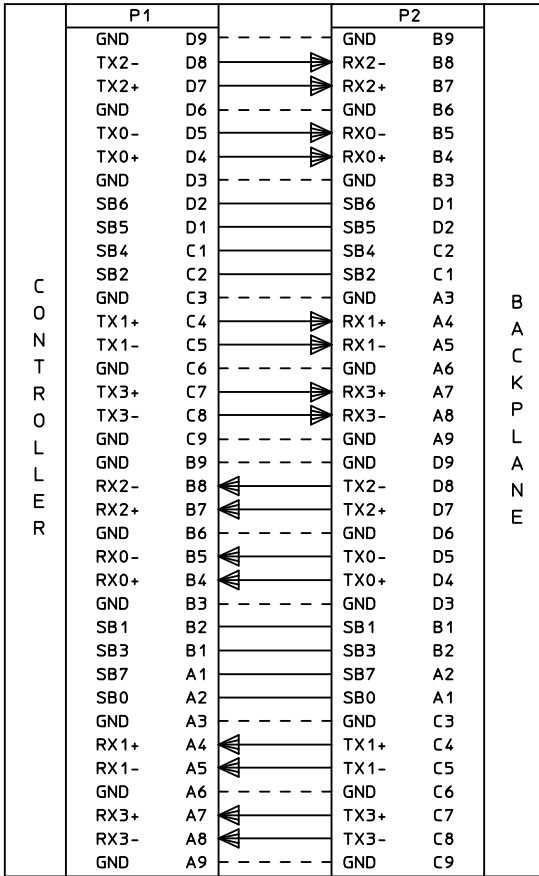
MOLEX P/N	LENGTH (M)	LENGTH TOLERANCE (mm)	AWG	DESCRIPTION	PINOUT
1001900100	0.152	±10	30	CTRL TO BP	1
1001900101	0.300	±10	30	CTRL TO BP	1
1001900102	0.500	±10	30	CTRL TO BP	1
1001900103	0.600	±10	30	CTRL TO BP	1
1001900104	1.000	±15	30	CTRL TO BP	1
1001900200	0.152	±10	30	CTRL TO CTRL	2
1001900201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

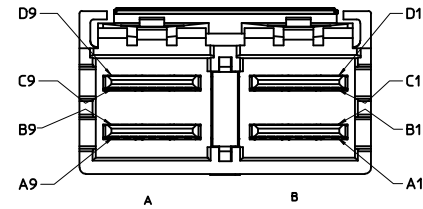
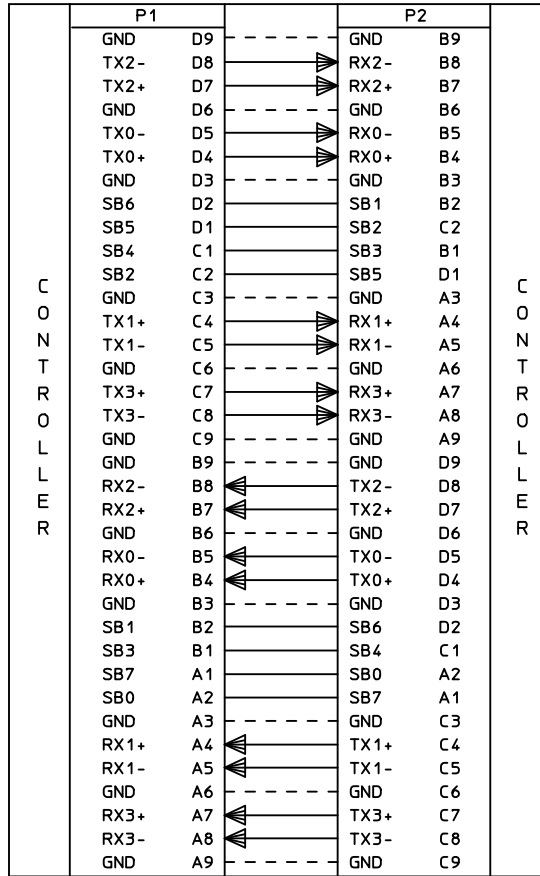
INITIAL RELEASE IEC NO: CPG2014-0206 DRAWN BY: EMEDINA CHECKED BY: PSYSTMA APPR: CHIRSCHY DATE: 2013/06/07 DATE: 2013/06/14 DATE: 2014/04/24	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm    INCH		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ±--- ±---		DRAWN BY: EMEDINA    DATE: 2013/06/07 CHECKED BY: PSYSTMA    DATE: 2013/06/14 APPROVED BY: CHIRSCHY    DATE: 2014/04/24		TITLE 8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY		molex
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ±1/2°		SEE P/N TABLE		DOCUMENT NO. SD-100190-0100		SHEET NO. 1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



PINOUT 1



PINOUT 2

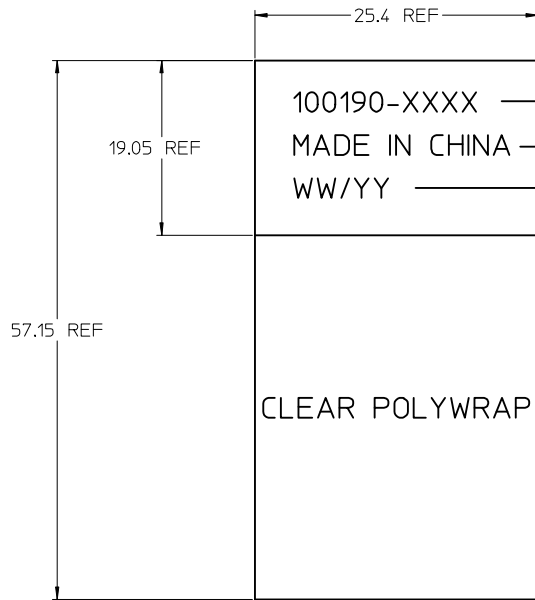


----- = THRU LINES  
 -----> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS

NOTE:  
 THESE PINOUTS ARE DUPLICATED FOR BOTH PORTS.

INITIAL RELEASE EC NO: CPG2014-0206 DRAWN BY: EMEDINA CHECKED BY: PSYSTMA APPROVED BY: CHIRSCHY 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		
			MATERIAL NO. SEE SHEET 1 DOCUMENT NO. SD-100190-0100			SHEET NO. 2 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

LABEL DETAIL



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

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