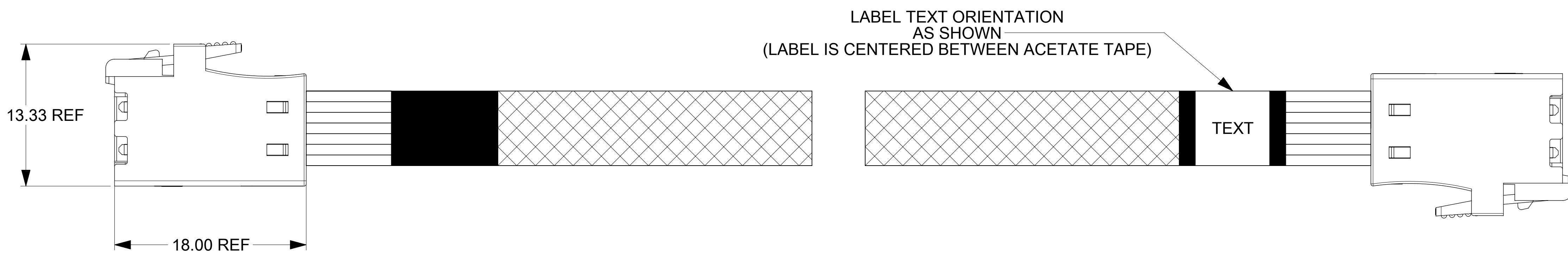
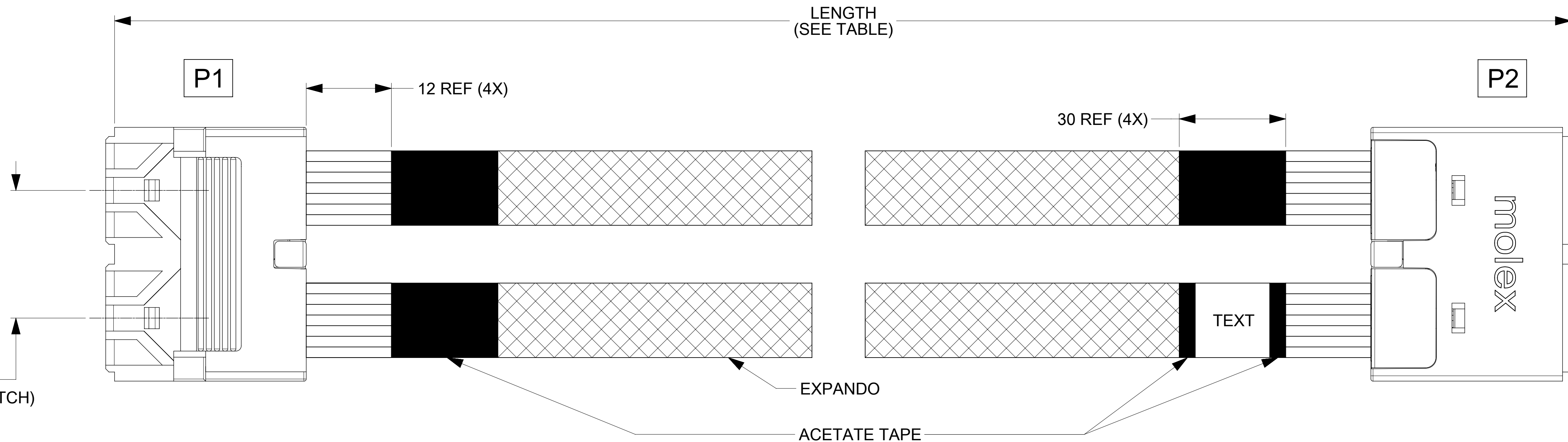


12.0 ±0.1 TYP
(PORT TO PORT PITCH)



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

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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	REVISION
			D-SIZE	100190	1001900100	000
					CUSTOMER	C
					GENERAL MARKET	1 OF 4

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

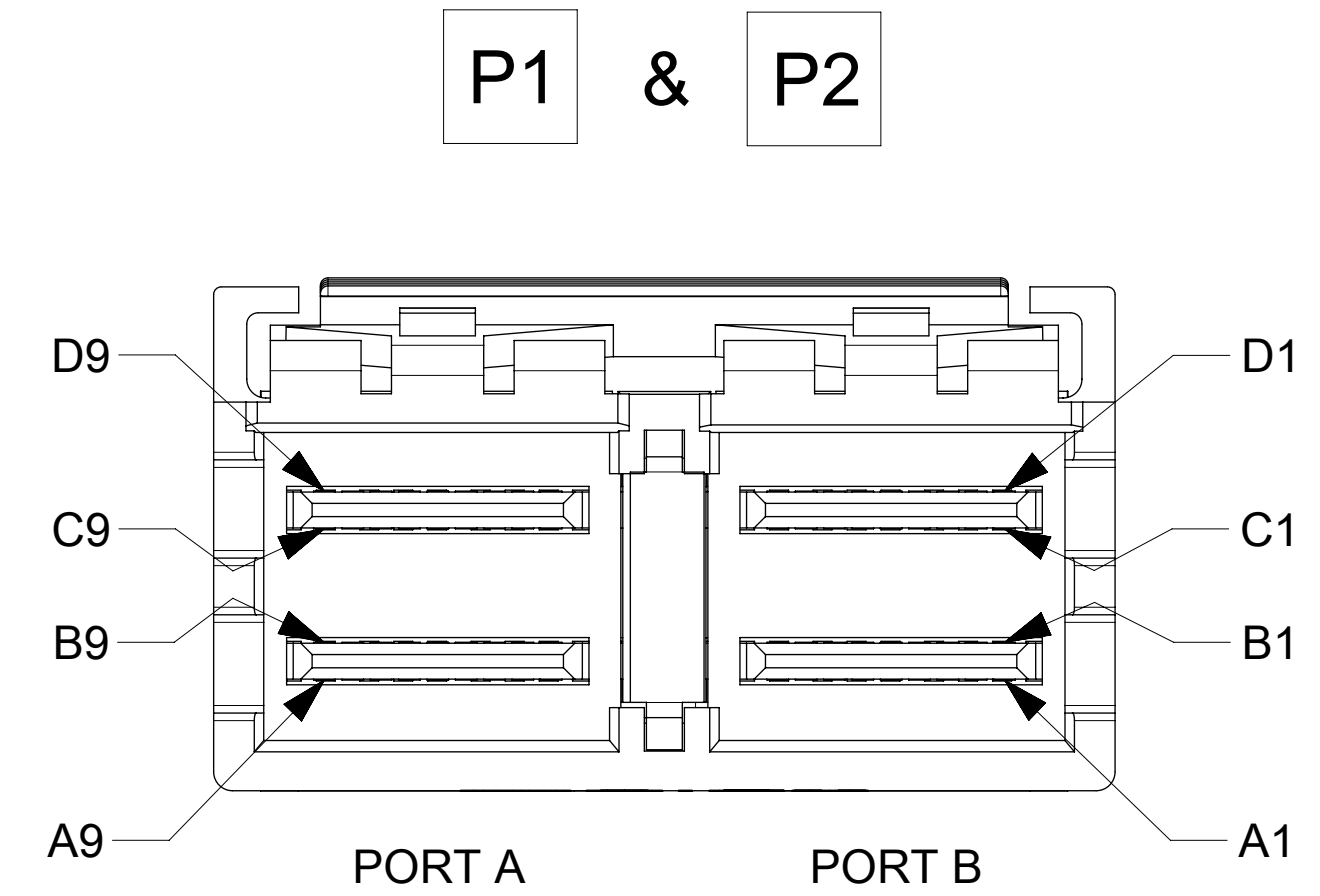
DOCUMENT STATUS	P1	RELEASE DATE	2018/07/02	15:24:26
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PINOUT 1

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

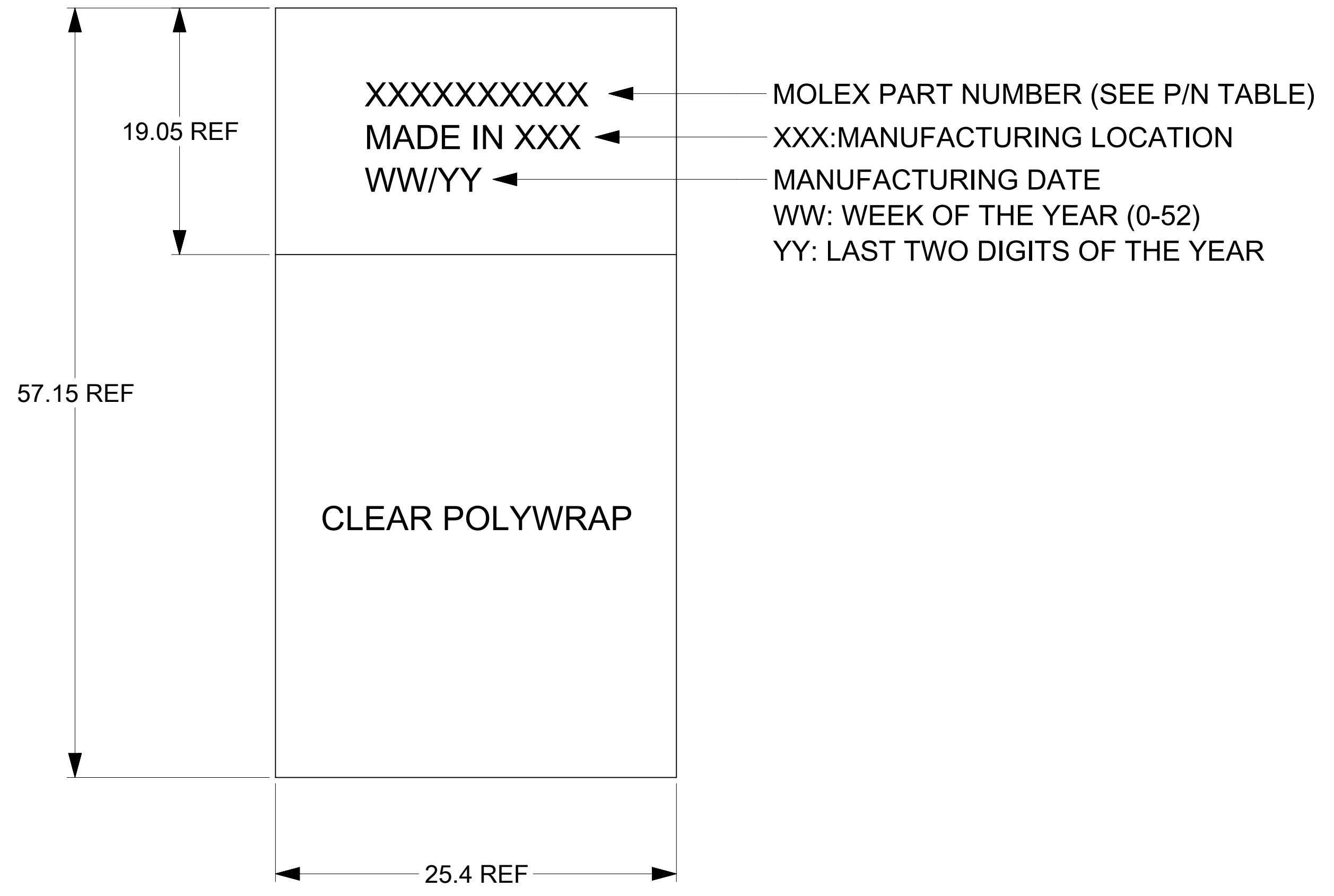
	P1		NC	P2	
		GND		D9	B9
	TX2-	D8	→	B8	RX2-
	TX2+	D7	→	B7	RX2+
	GND	D6	——	B6	GND
	TX0-	D5	→	B5	RX0-
	TX0+	D4	→	B4	RX0+
	GND	D3	——	B3	GND
	SB6	D2	-----	B2	SB1
	SB5	D1	-----	C2	SB2
	SB4	C1	-----	B1	SB3
	SB2	C2	-----	D1	SB5
	GND	C3	——	A3	GND
	TX1+	C4	→	A4	RX1+
	TX1-	C5	→	A5	RX1-
	GND	C6	——	A6	GND
	TX3+	C7	→	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:				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		CUSTOMER	
		D-SIZE		100190		MATERIAL NUMBER		SHEET NUMBER	
				SEE P/N TABLE		GENERAL MARKET		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				1001900100	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		CUSTOMER	
				D-SIZE		100190		GENERAL MARKET	
								SHEET NUMBER	
								3 OF 4	

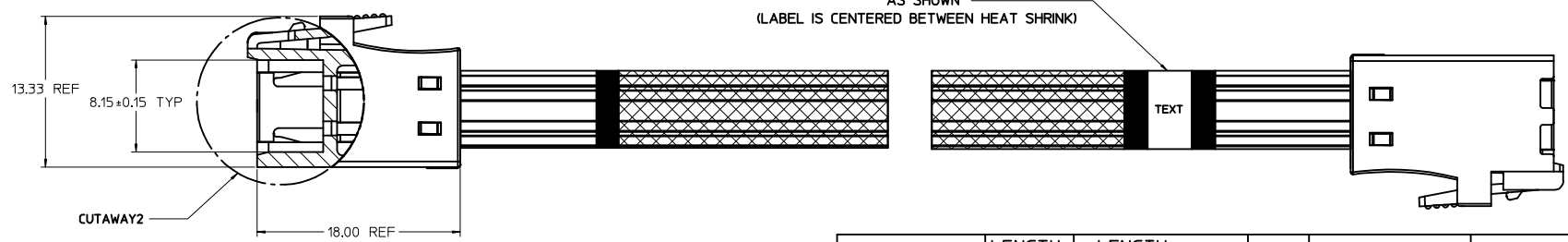
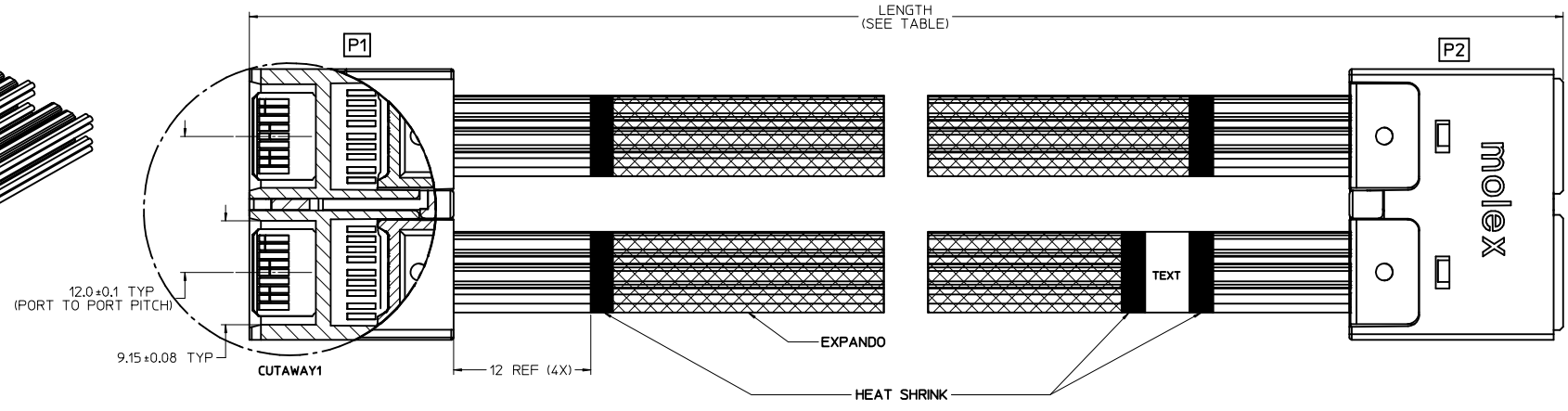
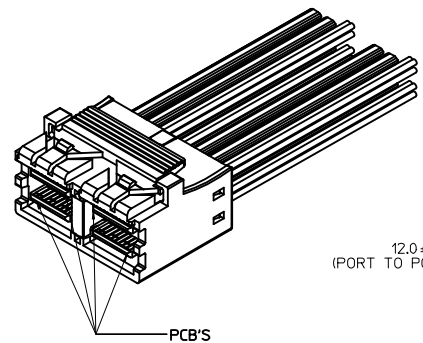
REVISION HISTORY

DATE	REV	DESCRIPTION
2014/04/24	A	INITIAL RELEASE
2018/05/04	B	UPDATE TEMPLATES
2018/06/26	C	SHEET 1 : K4 : HD TYPE CHAGNED TO UNIVERSAL HD TYPE

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DIMENSION UNITS mm	SCALE 1:1	CURRENT REV DESC: EC NO: 600854 DRWN: THSU 2018/06/19 CHK'D: VPENG01 2018/07/02 APPR: VPENG01 2018/07/02 INITIAL REVISION: DRWN: LOU01 2017/11/27 APPR: VPENG01 2018/05/07	molex		
GENERAL TOLERANCES (UNLESS SPECIFIED)			8X INT HD SHORT BODY STRAIGHT CBL ASSY		
ANGULAR TOL ± °	4 PLACES ±		PRODUCT CUSTOMER DRAWING		
3 PLACES ±	2 PLACES ±		DOCUMENT NUMBER	DOC TYPE	DOC PART
1 PLACE ±	0 PLACES ±	1001900100			PSD
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
					4 OF 4

TM-100190-0100



- NOTES:
1. 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)
 2. THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0.
 3. RoHS COMPLIANT, NO EXEMPTIONS.

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

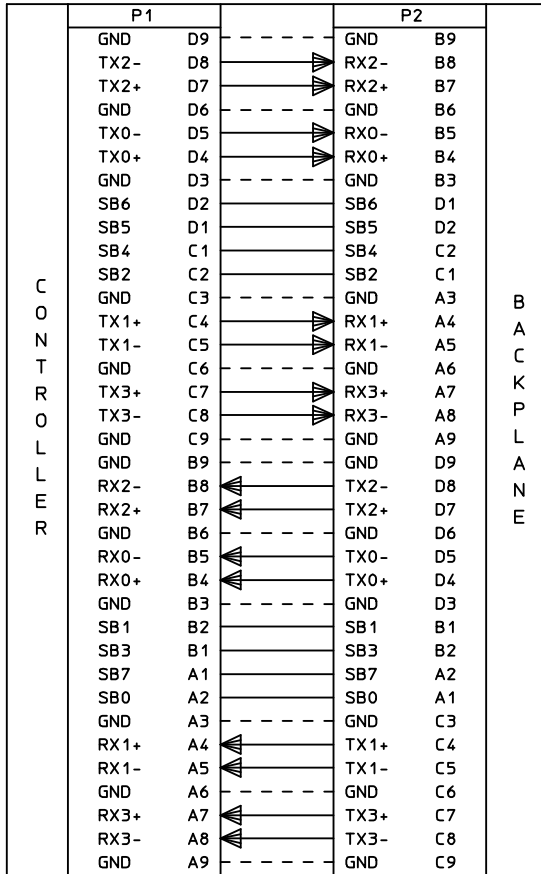
INITIAL RELEASE EC NO: CPG2014-0206 DRAWN BY: EMEDINA 2013/06/07 CHECKED BY: PSYSTMA 2013/06/14 APPR: CHIRSCHY 2014/04/24	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±0.13 ±--- 1 PLACE ±0.25 ±--- 0 PLACE ±--- ±---		DIMENSION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

8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY

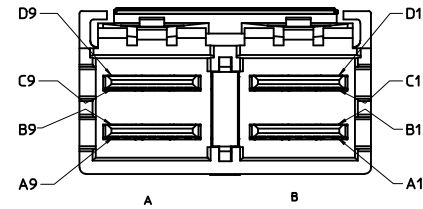
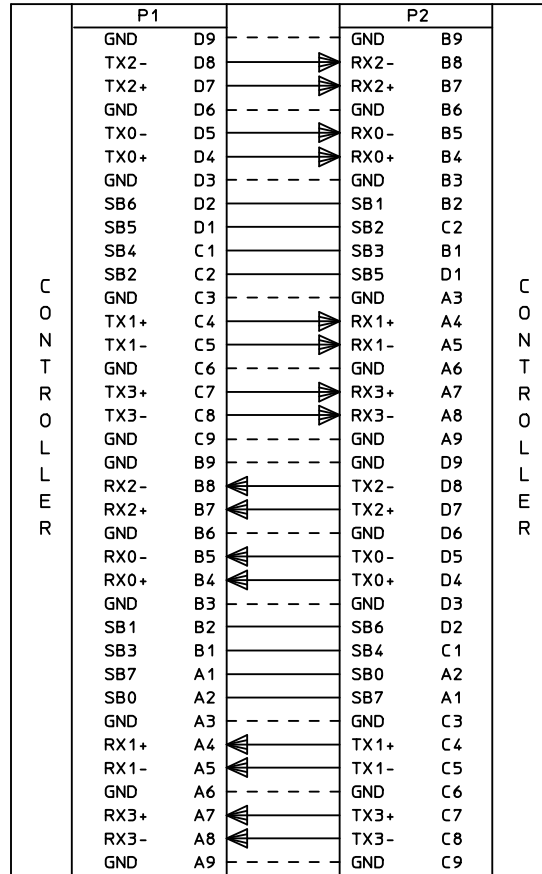
molex

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PINOUT 1



PINOUT 2

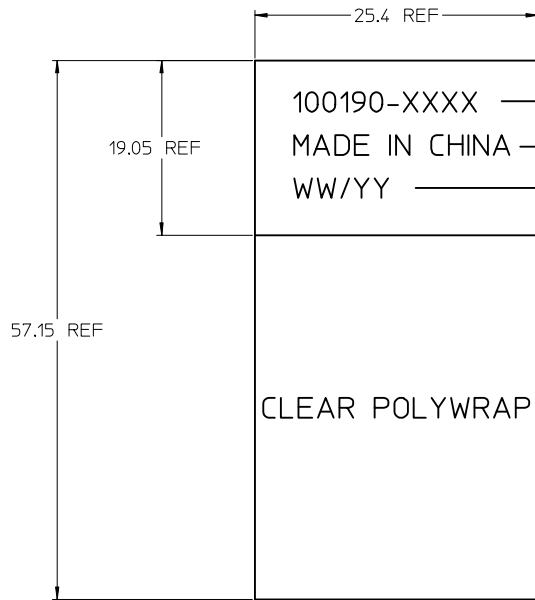


----- = THRU LINES
 -----> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS

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 CHECKED BY: PSYSTMA APPROVED BY: CHIRSCHY DATE: 2013/06/07 DATE: 2013/06/24 DATE: 2014/04/24			TITLE: 8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY molex
			SEE SHEET 1	DOCUMENT NO. SD-100190-0100	SHEET NO. 2 OF 3	

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	mm INCH	MM ONLY		METRIC		
	▽=0	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- 0 PLACE ± --- ± ---	DRAWN BY DATE EMEDINA 2013/06/07	TITLE 8X INTERNAL HD SHORT BODY STRAIGHT CABLE ASSEMBLY			
	▽=0	ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY DATE PSYSTMA 2013/06/24	APPROVED BY DATE CHIRSCHY 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				

MIGRATED DRAWING

See PDF and DXF file in ORIGINALS
for drawing content

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
= 0	EC NO: 603676 DRWN: PHSU01 CHK'D: VPENG01 APPR: VPENG01	2018/08/30 2018/09/03 2018/09/03	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE						
= 0			ANGULAR TOL ± 0.5 °		mm	1:1						
= 0			4 PLACES ±	DRWN BY		DATE		8X INTERNAL HD SHORT BODY STRAIGHT CBL ASSY 85 OHM				
= 0			3 PLACES ±	TPRATT		2014/04/23						
= 0			2 PLACES ± 0.13	CHK'D BY		DATE						
= 0			1 PLACE ± 0.25	PSYTSMA		2014/04/23		PRODUCT CUSTOMER DRAWING				
= 0			0 PLACES ±	APPR BY		DATE						
= 0			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHIRSCHY		2014/04/30		SERIES	MATERIAL NUMBER	CUSTOMER	
= 0					DRAWING SIZE	THIRD ANGLE PROJECTION		100224		GENERAL MARKET		
					B			DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER	
						SD-100224-0100	PSD	001	1 OF 1			