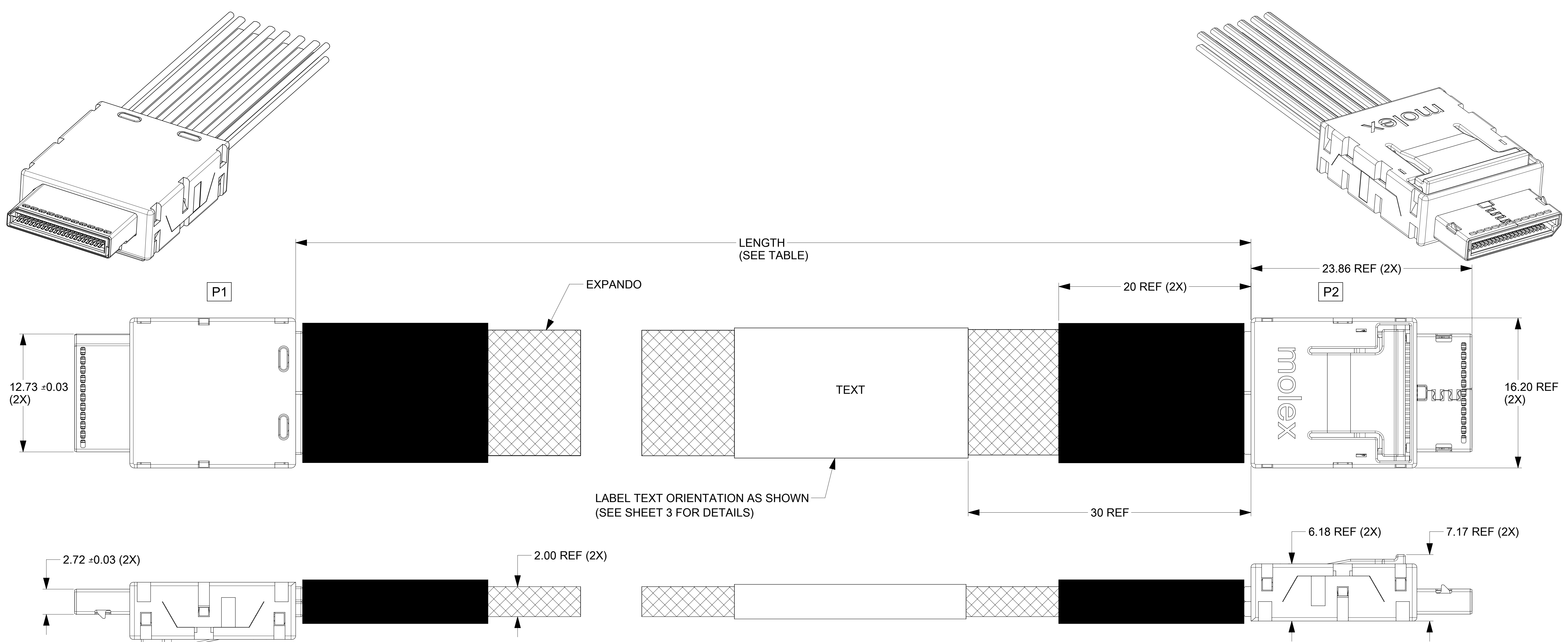




- NOTES:
- MATERIALS:
 - BACKSHELLS - GLASS FILLED LCP, UL94-V0
COLOR: BLACK
 - LATCHING - STAINLESS STEEL
 - CABLE - TWIN-AX SHIELD: ALUMINIZED POLYESTER FOIL
 - SIGNAL PAIR: SOLID SILVER PLATED COPPER
 - DRAIN: SOLID TINNED COPPER
 - CONFORMS TO VW1
 - PCB - HALOGEN FREE
 - PLUG MATES TO RIGHT-ANGLE AND VERTICAL RECEPTACLE SERIES 173162.
 - RoHS COMPLIANT. NO EXCEPTIONS.

MOLEX P/N	LENGTH	TOLERANCE	TWINAX CABLE		MECHANICAL SPECIFICATION	ELECTRICAL SPECIFICATION	PINOUT TABLE
			IMPEDANCE	AWG			
2021431000	300mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2021431001	500mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2021431002	700mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2021431003	1000mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2021431050	300mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	B
2021431051	500mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	B
2021431052	700mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	B
2021431053	1000mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	B

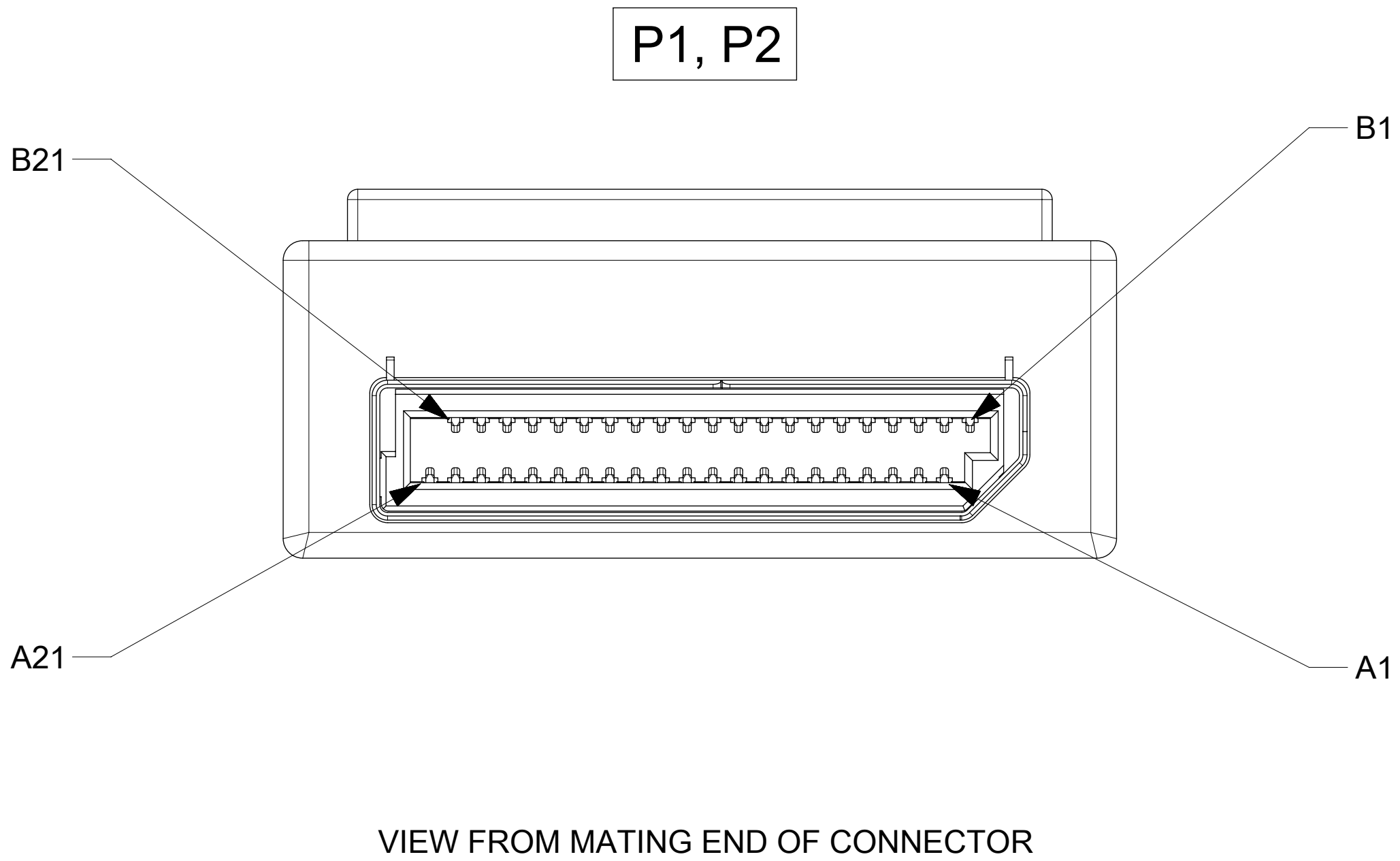
QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
 = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0	EC NO: 117596 DRWN: JWALLACE01 CHKD: MSTRACK REV APPR: JALEXANDER	2017/05/31 2017/05/31 2017/06/05	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE								
					MM		1:1								
			ANGULAR TOL ± °		DRWN BY		DATE		NP10 4X W/SB STRAIGHT TO STRAIGHT						
			4 PLACES ±		JWALLACE01		2016/08/26								
			3 PLACES ±		CHK'D BY		DATE								
			2 PLACES ±		MSTRACK		2016/09/15								
			1 PLACE ±		APPR BY		DATE								
			0 PLACES ±		JCDEMPSEY		2016/09/23		PRODUCT CUSTOMER DRAWING						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION				SERIES	MATERIAL NUMBER		CUSTOMER	
					D						202143	SEE P/N TABLE		GENERAL MARKET	
C		REV					DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER				
							2021431000		PSD	000	1 OF 3				

PINOUT TABLE A

P1		SIGNAL TYPE	WIRE ID	AWG	P2	
PIN #	DESCRIPTION				PIN #	DESCRIPTION
A1	NO CONNECT	NC	NO WIRE		B1	NO CONNECT
A2	GROUND	----	TWINAX1	34	B2	GROUND
A3	PERp0	<---	TWINAX1	34	B3	PETp0
A4	PERn0	<---	TWINAX1	34	B4	PETn0
A5	GROUND	----	TWINAX2	34	B5	GROUND
A6	PERp1	<---	TWINAX2	34	B6	PETp1
A7	PERn1	<---	TWINAX2	34	B7	PETn1
A8	GROUND	----	TWINAX3	34	B8	GROUND
A9	BP_TYPE	<---	TWINAX3	34	B9	BP_TYPE
A10	CWAKE#	<->	TWINAX3	34	B10	CWAKE#
A11	GROUND	NC	NO WIRE		B11	GROUND
A12	VSP+	--->	TWINAX4	34	B12	VSP+
A13	VSP-	--->	TWINAX4	34	B13	VSP-
A14	GROUND	----	TWINAX4	34	B14	GROUND
A15	PERp2	<---	TWINAX5	34	B15	PETp2
A16	PERn2	<---	TWINAX5	34	B16	PETn2
A17	GROUND	----	TWINAX5	34	B17	GROUND
A18	PERp3	<---	TWINAX6	34	B18	PETp3
A19	PERn3	<---	TWINAX6	34	B19	PETn3
A20	GROUND	----	TWINAX6	34	B20	GROUND
A21	NO CONNECT	NC	NO WIRE		B21	NO CONNECT
B1	NO CONNECT	NC	NO WIRE		A1	NO CONNECT
B2	GROUND	----	TWINAX7	34	A2	GROUND
B3	PETp0	--->	TWINAX7	34	A3	PERp0
B4	PETn0	--->	TWINAX7	34	A4	PERn0
B5	GROUND	----	TWINAX8	34	A5	GROUND
B6	PETp1	--->	TWINAX8	34	A6	PERp1
B7	PETn1	--->	TWINAX8	34	A7	PERn1
B8	GROUND	----	TWINAX9	34	A8	GROUND
B9	2-WIRE CLOCK	<->	TWINAX9	34	A9	2-WIRE CLOCK
B10	2-WIRE DATA	<->	TWINAX9	34	A10	2-WIRE DATA
B11	GROUND	NC	NO WIRE		A11	GROUND
B12	PERST#	<->	TWINAX10	34	A12	PERST#
B13	CPRSNT#	<->	TWINAX10	34	A13	CPRSNT#
B14	GROUND	----	TWINAX10	34	A14	GROUND
B15	PETp2	--->	TWINAX11	34	A15	PERp2
B16	PETn2	--->	TWINAX11	34	A16	PERn2
B17	GROUND	----	TWINAX11	34	A17	GROUND
B18	PETp3	--->	TWINAX12	34	A18	PERp3
B19	PETn3	--->	TWINAX12	34	A19	PERn3
B20	GROUND	----	TWINAX12	34	A20	GROUND
B21	NO CONNECT	NC	NO WIRE		A21	NO CONNECT

PINOUT TABLE B

P1		SIGNAL TYPE	WIRE ID	AWG	P2	
PIN #	DESCRIPTION				PIN #	DESCRIPTION
A1	A1	<->	DISCRETE	30	B1	B1
A2	GROUND	----	TWINAX1	34	B2	GROUND
A3	PERp0	<---	TWINAX1	34	B3	PETp0
A4	PERn0	<---	TWINAX1	34	B4	PETn0
A5	GROUND	----	TWINAX2	34	B5	GROUND
A6	PERp1	<---	TWINAX2	34	B6	PETp1
A7	PERn1	<---	TWINAX2	34	B7	PETn1
A8	GROUND	----	TWINAX3	34	B8	GROUND
A9	BP_TYPE	<---	TWINAX3	34	B9	BP_TYPE
A10	CWAKE#	<->	TWINAX3	34	B10	CWAKE#
A11	GROUND	<->	DISCRETE	34 (RED)	B11	GROUND/SB
A12	VSP+	----	TWINAX4	34	B12	VSP+
A13	VSP-	----	TWINAX4	34	B13	VSP-
A14	GROUND	----	TWINAX4	34	B14	GROUND
A15	PERp2	<---	TWINAX5	34	B15	PETp2
A16	PERn2	<---	TWINAX5	34	B16	PETn2
A17	GROUND	----	TWINAX5	34	B17	GROUND
A18	PERp3	<---	TWINAX6	34	B18	PETp3
A19	PERn3	<---	TWINAX6	34	B19	PETn3
A20	GROUND	----	TWINAX6	34	B20	GROUND
A21	A21	<->	DISCRETE	30	B21	B21
B1	B1	<->	DISCRETE	30	A1	A1
B2	GROUND	----	TWINAX7	34	A2	GROUND
B3	PETp0	----	TWINAX7	34	A3	PERp0
B4	PETn0	----	TWINAX7	34	A4	PERn0
B5	GROUND	----	TWINAX8	34	A5	GROUND
B6	PETp1	----	TWINAX8	34	A6	PERp1
B7	PETn1	----	TWINAX8	34	A7	PERn1
B8	GROUND	----	TWINAX9	34	A8	GROUND
B9	2-WIRE CLOCK	<->	TWINAX9	34	A9	2-WIRE CLOCK
B10	2-WIRE DATA	<->	TWINAX9	34	A10	2-WIRE DATA
B11	GROUND	<->	DISCRETE	34 (BLK)	A11	GROUND/SB
B12	PERST#	<->	TWINAX10	34	A12	PERST#
B13	CPRSNT#	<->	TWINAX10	34	A13	CPRSNT#
B14	GROUND	----	TWINAX10	34	A14	GROUND
B15	PETp2	----	TWINAX11	34	A15	PERp2
B16	PETn2	----	TWINAX11	34	A16	PERn2
B17	GROUND	----	TWINAX11	34	A17	GROUND
B18	PETp3	----	TWINAX12	34	A18	PERp3
B19	PETn3	----	TWINAX12	34	A19	PERn3
B20	GROUND	----	TWINAX12	34	A20	GROUND
B21	B21	<->	DISCRETE	30	A21	A21

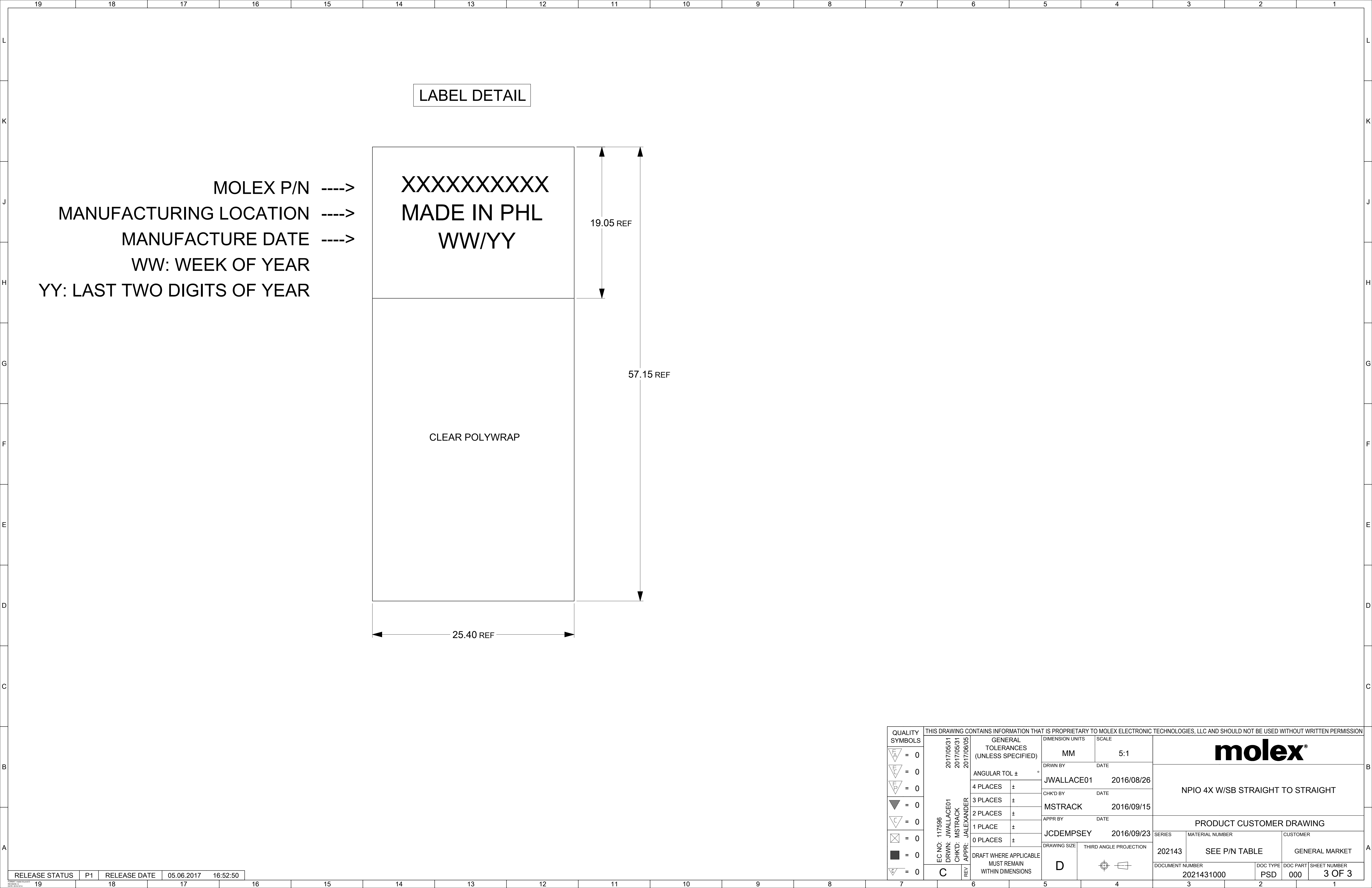


LEGEND

- - - = THRU LINE
 - - -> = TRANSMIT TO RECEIVE
 ON HIGH SPEED LINE
 < - - = SIDEBAND
 NC = NOT CONNECTED

NOTE: CONNECTION DETERMINED
BY PIN #. DESCRIPTION FOR
REFERENCE ONLY.

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QUALITY SYMBOLS		2017/05/31 2017/05/31 2017/06/05 EC NO: 117596 DRWN: JWALLACE01 CHKD: MSTRACK APPR: JALEXANDER C REV		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex® NPIO 4X W/SB STRAIGHT TO STRAIGHT PRODUCT CUSTOMER DRAWING					
MM						1:1									
F A = 0				ANGULAR TOL ± °		DRWN BY		DATE							
F C = 0				4 PLACES ±		JWALLACE01		2016/08/26							
F E = 0				3 PLACES ±		CHK'D BY		DATE							
▽ = 0				2 PLACES ±		MSTRACK		2016/09/15							
C = 0				1 PLACE ±		APPR BY		DATE							
⊠ = 0				0 PLACES ±		JCDEMPSEY		2016/09/23							
■ = 0				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER		CUSTOMER	
√ = 0						D				202143		SEE P/N TABLE		GENERAL MARKET	
								DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
								2021431000		PSD		000		2 OF 3	



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: 117596 DRWN: JWALLACE01 CHKD: MSTRACK REV/ APPR: JALEXANDER 2017/05/31 2017/05/31 2017/06/05	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		NP10 4X W/SB STRAIGHT TO STRAIGHT				
	= 0		ANGULAR TOL ± °		MM		5:1						
	= 0		4 PLACES ±		DRWN BY		DATE						
	= 0		3 PLACES ±		CHK'D BY		DATE						
	= 0		2 PLACES ±		MSTRACK		2016/09/15						
	= 0		1 PLACE ±		APPR BY		DATE		PRODUCT CUSTOMER DRAWING				
	= 0		0 PLACES ±		JCDEMPSEY		2016/09/23						
	= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER	
					D				202143	SEE P/N TABLE		GENERAL MARKET	
		C						DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER	
								2021431000		PSD	000	3 OF 3	