

LABEL TEXT ORIENTATION AS SHOWN
(SEE SHEET 3 FOR DETAILS)

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

- 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.
 - MINIMAL GAP FROM TAPE TO BACKSHELL IS ACCEPTABLE

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

QUALITY SYMBOLS	F = 0 E = 0 D = 0 C = 0 B = 0 A = 0 0 = 0 1 = 0 2 = 0 3 = 0 4 = 0 5 = 0 6 = 0 7 = 0 8 = 0 9 = 0 10 = 0 11 = 0 12 = 0 13 = 0 14 = 0 15 = 0 16 = 0 17 = 0 18 = 0 19 = 0	EC NO: 169582 DRWN: KBASAPPAKORA CHKD: KBASAPPAKORA REV: APPR: RHSJL01	2017/12/14 2017/12/14 2017/12/15	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION UNITS: mm SCALE: 1:1 DRWN BY: JWALLACE01 DATE: 2016/08/26 CHKD BY: MSTRACK DATE: 2016/09/15 APPR BY: JCDEMPSEY DATE: 2016/09/23 DRAWING SIZE: D THIRD ANGLE PROJECTION	<p>NPIO 4X W/SB STRAIGHT TO STRAIGHT</p> <p>PRODUCT CUSTOMER DRAWING</p> <p>SERIES: 202143 MATERIAL NUMBER: SEE P/N TABLE CUSTOMER: GENERAL MARKET</p> <p>DOCUMENT NUMBER: 2021431000 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 1 OF 3</p>
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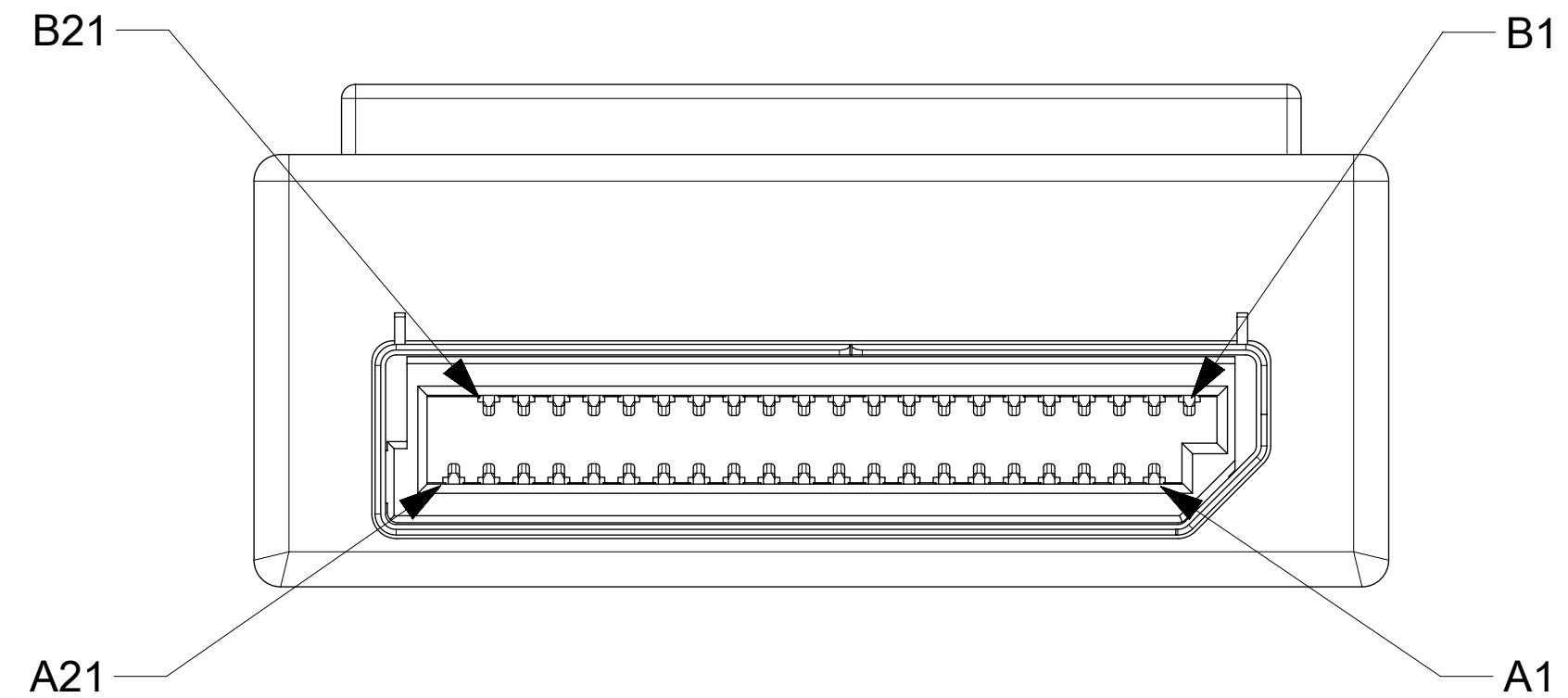
PINOUT TABLE A

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

P1, P2



VIEW FROM MATING END OF CONNECTOR

LEGEND

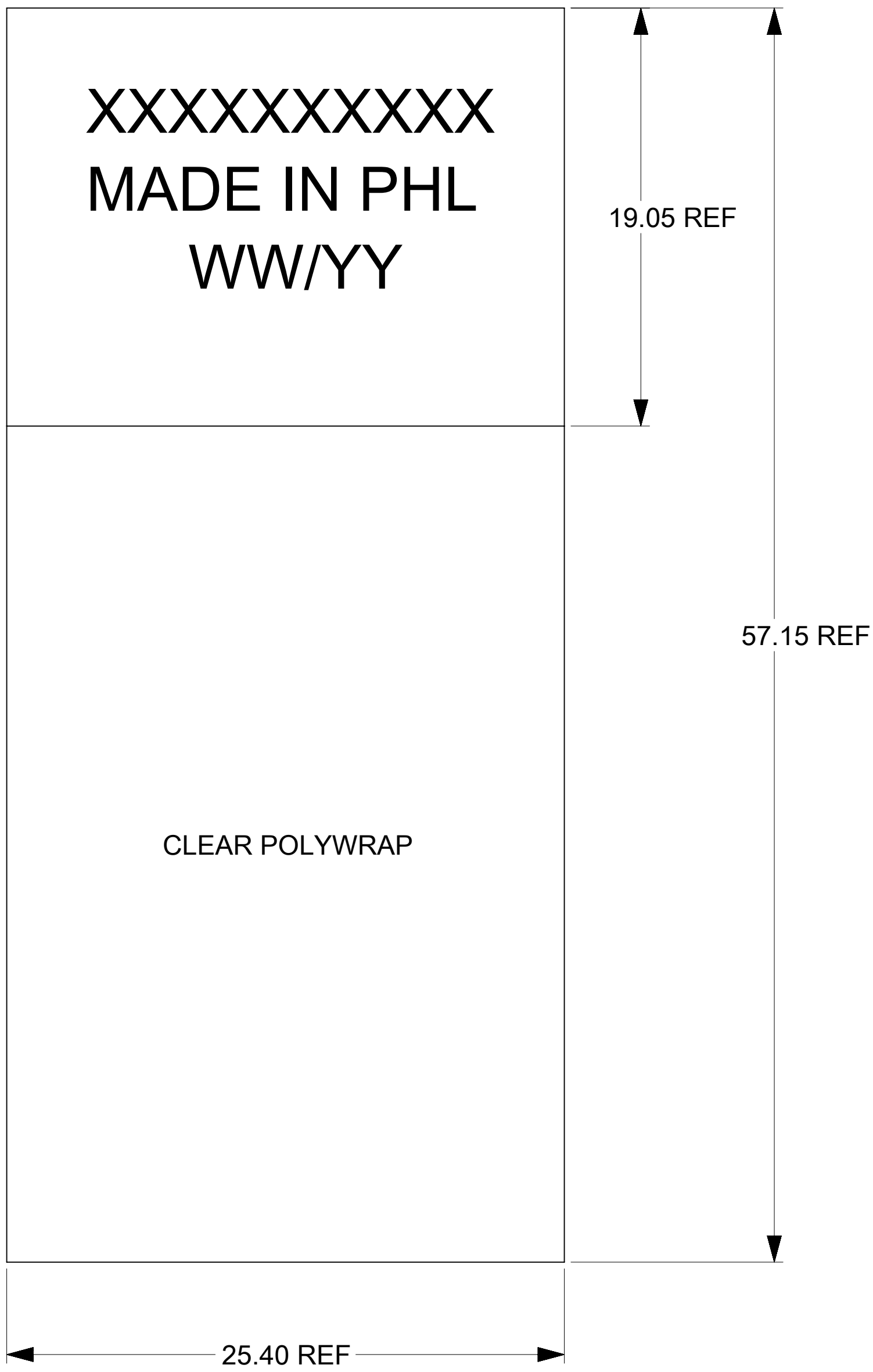
- = THRU LINE
- > = TRANSMIT TO RECEIVE ON HIGH SPEED LINE
- <--> = SIDEBAND
- NC = NOT CONNECTED

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

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	EC NO: 169582 DRWN: KBASAPPAKORA CHKD: KBASAPPAKORA REV: APPR: RHSJ01	2017/12/14 2017/12/14 2017/12/15	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 1 PLACE ± 0 PLACES ± DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION UNITS: mm SCALE: 1:1 DRWN BY: JWALLACE01 DATE: 2016/08/26 CHKD BY: MSTRACK DATE: 2016/09/15 APPR BY: JCDEMPSEY DATE: 2016/09/23
RELEASE STATUS: P1 RELEASE DATE: 15.12.2017 01:26:08	DOCUMENT NUMBER: 2021431000 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 2 OF 3			MOLEX® NP10 4X W/SB STRAIGHT TO STRAIGHT

LABEL DETAIL

MOLEX P/N ---->
 MANUFACTURING LOCATION ---->
 MANUFACTURE DATE ---->
 WW: WEEK OF YEAR
 YY: LAST TWO DIGITS OF YEAR



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: 169582 DRWN: KBASAPPAKORA CHKD: KBASAPPAKORA REV APPR: RHSJ01	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE					
	= 0		ANGULAR TOL ± °		mm	5:1					
	= 0		4 PLACES ±		DRWN BY	DATE					
	= 0		3 PLACES ±		JWALLACE01	2016/08/26	NPIO 4X W/SB STRAIGHT TO STRAIGHT				
	= 0		2 PLACES ±		CHKD BY	DATE					
	= 0		1 PLACE ±		MSTRACK	2016/09/15	PRODUCT CUSTOMER DRAWING				
	= 0	0 PLACES ±		APPR BY	DATE						
	= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		JCDEMPSEY	2016/09/23	SERIES	MATERIAL NUMBER	CUSTOMER			
	= 0	D		DRAWING SIZE	THIRD ANGLE PROJECTION	202143	SEE P/N TABLE	GENERAL MARKET			
	= 0					DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER		
						2021431000	PSD	000	3 OF 3		