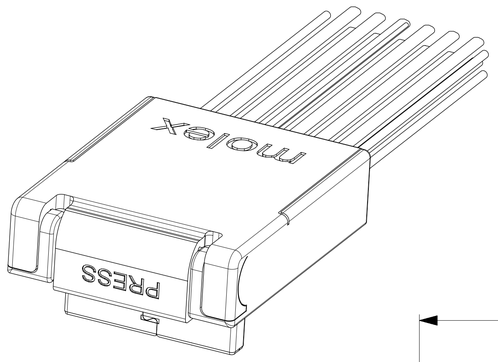
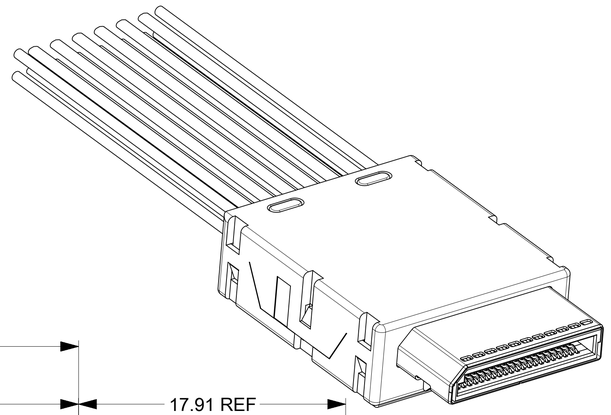
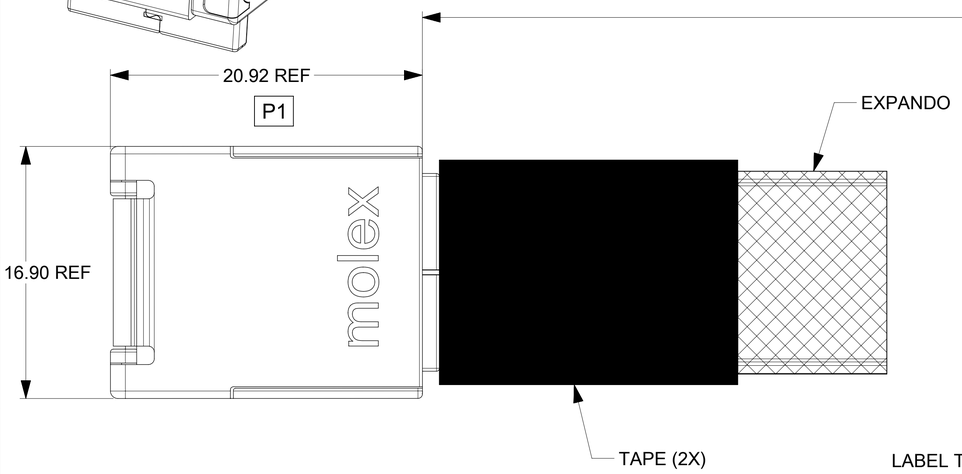
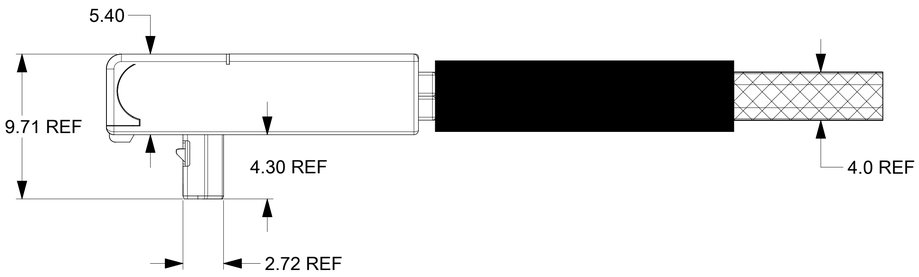
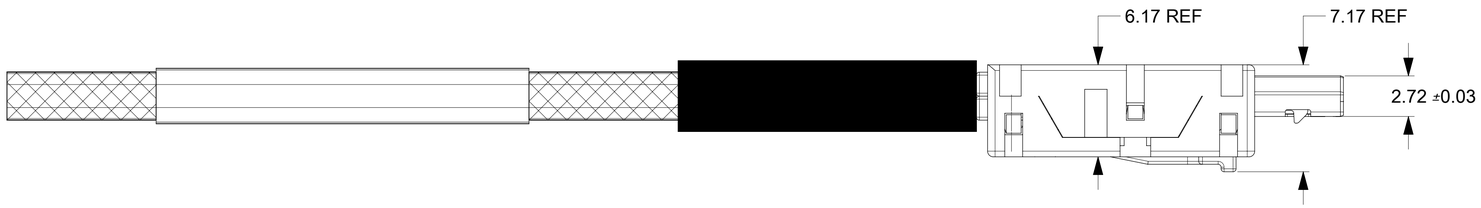










MOLEX P/N	LENGTH	TOLERANCE	TWINAX CABLE		MECHANICAL SPECIFICATION	ELECTRICAL SPECIFICATION	PINOUT TABLE
			IMPEDANCE	AWG			
2024921000	300mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2024921001	500mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2024921002	700mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2024921003	1000mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2024921050	300mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	B
2024921051	500mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	B
2024921052	700mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	B
2024921053	1000mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	B

NOTES:
1. MATERIALS:
   - BACKSHELLS - STR-GLASS FILLED LCP, UL94-V0
   - RA-NYLON, UL94-VO
   - 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
2. PLUG MATES TO RIGHT-ANGLE AND VERTICAL RECEPTACLE SERIES 173162.
3. RoHS COMPLIANT. NO EXCEPTIONS.

QUALITY SYMBOLS
A = 0
E = 0
F = 0
= 0
C = 0
= 0
= 0
C = 0

2017/05/31 EC NO: 117596
2017/05/31 DRWN: JWALLACE01
2017/06/05 CHK'D: MSTRACK
APPR: JALEXANDER
REV: D

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± °
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DIMENSION UNITS: MM
SCALE: NTS
DRWN BY: JWALLACE01 DATE: 2016/08/30
CHK'D BY: MSTRACK DATE: 2016/09/15
APPR BY: JCDEMPSEY DATE: 2016/09/23
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex

NPIO 4X W/SB RAD TO STRAIGHT

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
202492	SEE P/N TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
2024921000	PSD	000	1 OF 3

RELEASE STATUS	P1	RELEASE DATE	05.06.2017 16:52:52

TEMPLATE: molex-fb-size-d
REVISION: 01
DATE: 2016/12/14

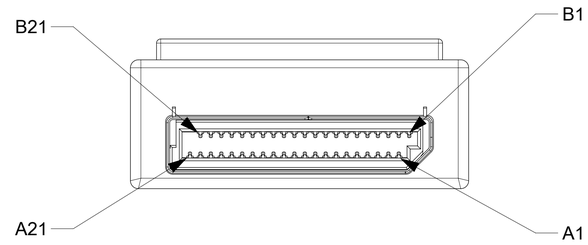
PINOUT TABLE A

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

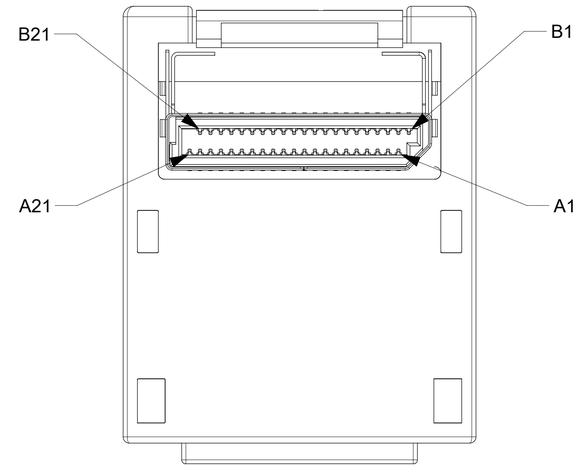
P1		SIGNAL TYPE	WIRE ID	AWG	P2	
PIN #	DESCRIPTION				PIN #	DESCRIPTION
A1	A1	<-->	DISCRETE	30	B1	B1
A2	GROUND	----	TWINAX1	34	B2	GROUND
A3	PERp0	<---	TWINAX1	34	B3	PETp0
A4	PERn0	<---	TWINAX1	34	B4	PETn0
A5	GROUND	----	TWINAX2	34	B5	GROUND
A6	PERp1	<---	TWINAX2	34	B6	PETp1
A7	PERn1	<---	TWINAX2	34	B7	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

P2



VIEW FROM MATING END OF CONNECTOR

P1



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.

RELEASE STATUS	P1	RELEASE DATE	05.06.2017	16:52:52

QUALITY SYMBOLS: A = 0, E = 0, D = 0, = 0, C = 0, = 0, = 0, = 0

EC NO: 117596
DRWN: JWALLACE01 2017/05/31
CHK'D: MSTRACK 2017/05/31
APPR: JALEXANDER 2017/06/05
REV: D

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ±	°
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DIMENSION UNITS: MM
SCALE: NTS
DRWN BY: JWALLACE01 DATE: 2016/08/30
CHK'D BY: MSTRACK DATE: 2016/09/15
APPR BY: JCDEMPSEY DATE: 2016/09/23
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex®

NPIO 4X W/SB RAD TO STRAIGHT

PRODUCT CUSTOMER DRAWING

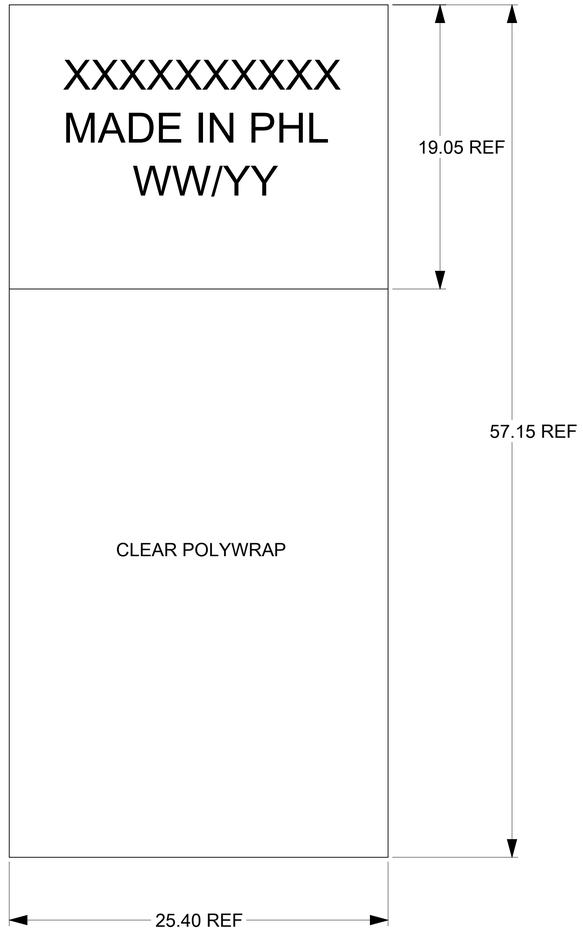
SERIES	MATERIAL NUMBER	CUSTOMER
202492	SEE P/N TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
2024921000	PSD	000	2 OF 3

TEMPLATE: molex-SLAM-D
REVISION: 01
DATE: 2016/12/14

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		
FA = 0 FE = 0 FD = 0 ▼ = 0 C = 0 ☒ = 0 ■ = 0 C = 0	EC NO: 117596 DRWN: JWALLACE01 2017/05/31 CHK'D: MSTRACK 2017/05/31 APPR: JALEXANDER 2017/06/05 REV: D	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: NTS DRWN BY: JWALLACE01 DATE: 2016/08/30 CHK'D BY: MSTRACK DATE: 2016/09/15 APPR BY: JCDEMPSEY DATE: 2016/09/23 DRAWING SIZE: D THIRD ANGLE PROJECTION

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NPIO 4X W/SB RAD TO STRAIGHT

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
202492	SEE P/N TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
2024921000	PSD	000	3 OF 3

RELEASE STATUS	P1	RELEASE DATE	05.06.2017 16:52:52

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