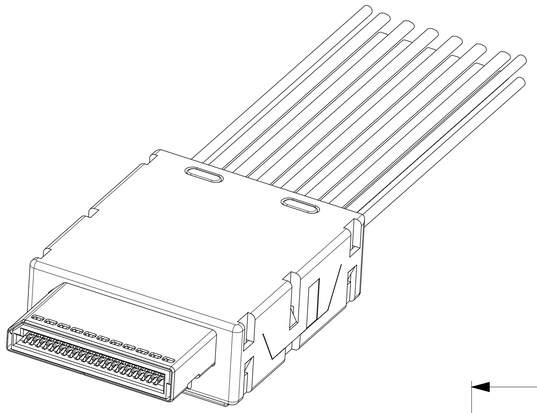
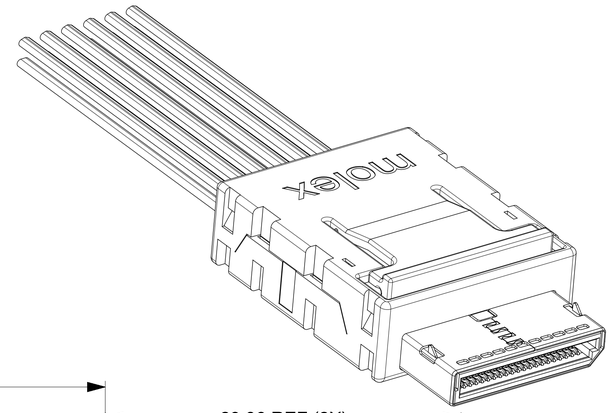
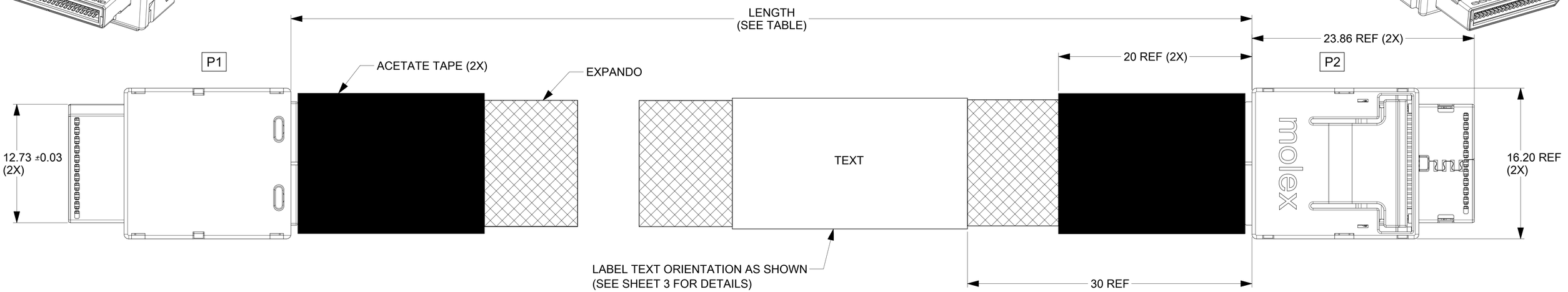
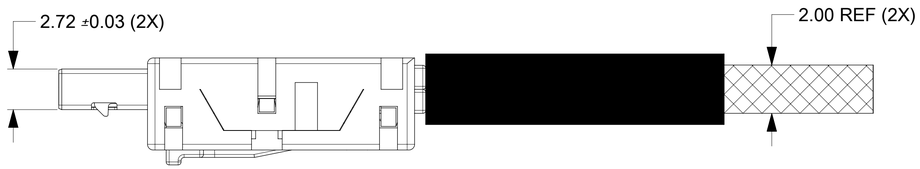
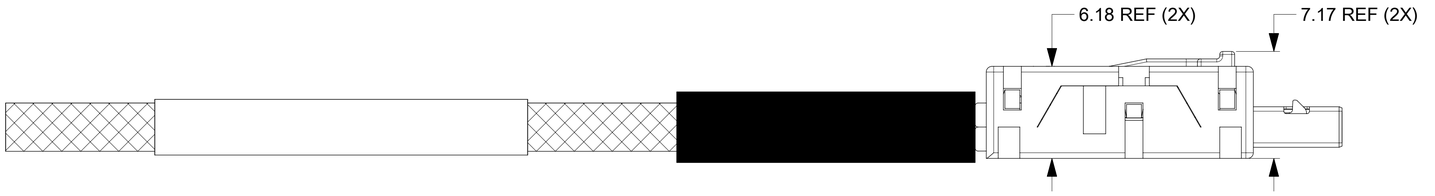










MOLEX P/N	LENGTH	TOLERANCE	TWINAX CABLE		MECHANICAL SPECIFICATION	ELECTRICAL SPECIFICATION	PINOUT TABLE
			IMPEDANCE	AWG			
2021431000	300mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2021431001	500mm	±10mm	85 Ohms	34	SFF-8611	PCI EXPRESS OCuLink SPECIFICATION REV 1.0	A
2021431002	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:

1. 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
2. PLUG MATES TO RIGHT-ANGLE AND VERTICAL RECEPTACLE SERIES 173162.
3. RoHS COMPLIANT. NO EXCEPTIONS.
4. MINIMAL GAP FROM TAPE TO BACKSHELL IS ACCEPTABLE

QUALITY SYMBOLS
F = 0
E = 0
D = 0
= 0
C = 0
= 0
= 0
= 0
B = 0

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

EC NO: 169582 2017/12/14
DRWN: KBASAPPAKORA 2017/12/14
CH'K'D: KBASAPPAKORA 2017/12/15
APPR: RHSU01

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: 1:1
DRWN BY: JWALLACE01 DATE: 2016/08/26
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 STRAIGHT TO STRAIGHT

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
202143	SEE P/N TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
2021431000	PSD	000	1 OF 3

RELEASE STATUS	P1	RELEASE DATE	15.12.2017 01:26:08

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

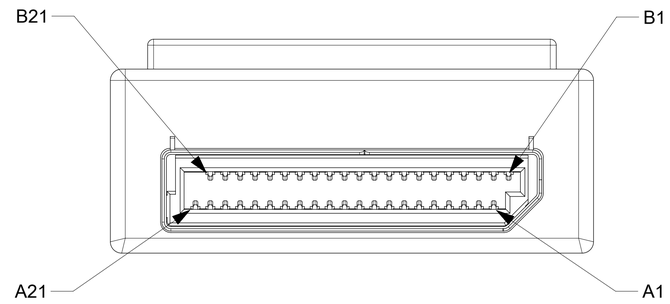
P1		SIGNAL TYPE	WIRE ID	AWG	P2	
PIN #	DESCRIPTION				PIN #	DESCRIPTION
A1	A1	<-->	DISCRETE	30	B1	B1
A2	GROUND	----	TWINAX1	34	B2	GROUND
A3	PERp0	<---	TWINAX1	34	B3	PETp0
A4	PERn0	<---	TWINAX1	34	B4	PETn0
A5	GROUND	----	TWINAX2	34	B5	GROUND
A6	PERp1	<---	TWINAX2	34	B6	PETp1
A7	PERn1	<---	TWINAX2	34	B7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

P1, P2



VIEW FROM MATING END OF CONNECTOR

QUALITY SYMBOLS	
EA	= 0
EC	= 0
ED	= 0
	= 0
C	= 0
	= 0
	= 0
V	= 0

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EC NO: 169582
DRWN: KBASAPPAKORA 2017/12/14
CHK'D: KBASAPPAKORA 2017/12/14
APPR: RHSU01 2017/12/15

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: 1:1
DRWN BY: JWALLACE01 DATE: 2016/08/26
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 STRAIGHT TO STRAIGHT

PRODUCT CUSTOMER DRAWING

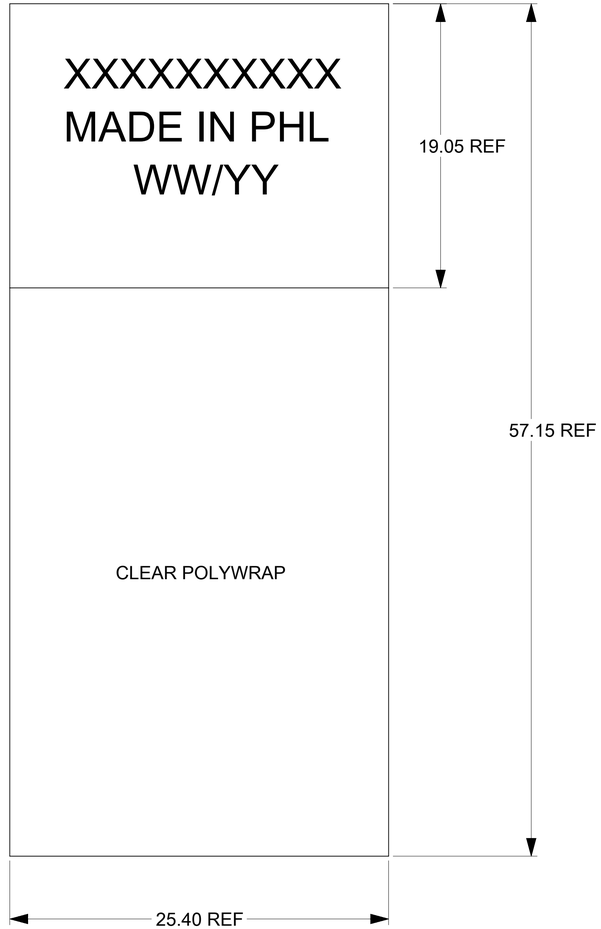
SERIES	MATERIAL NUMBER	CUSTOMER
202143	SEE P/N TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
2021431000	PSD	000	2 OF 3

RELEASE STATUS	P1	RELEASE DATE	15.12.2017 01:26:08

LABEL DETAIL

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



RELEASE STATUS	P1	RELEASE DATE	15.12.2017 01:26:08

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

QUALITY SYMBOLS
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= 0
= 0
= 0
= 0
= 0
= 0
= 0

EC NO: 160582 2017/12/14
DRWN: KBASAPPAKORA 2017/12/14
CHK'D: KBASAPPAKORA 2017/12/15
APPR: RHSU01

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	5:1
DRWN BY	JWALLACE01
DATE	2016/08/26
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 STRAIGHT TO STRAIGHT

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
202143	SEE P/N TABLE	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
2021431000	PSD	000	3 OF 3