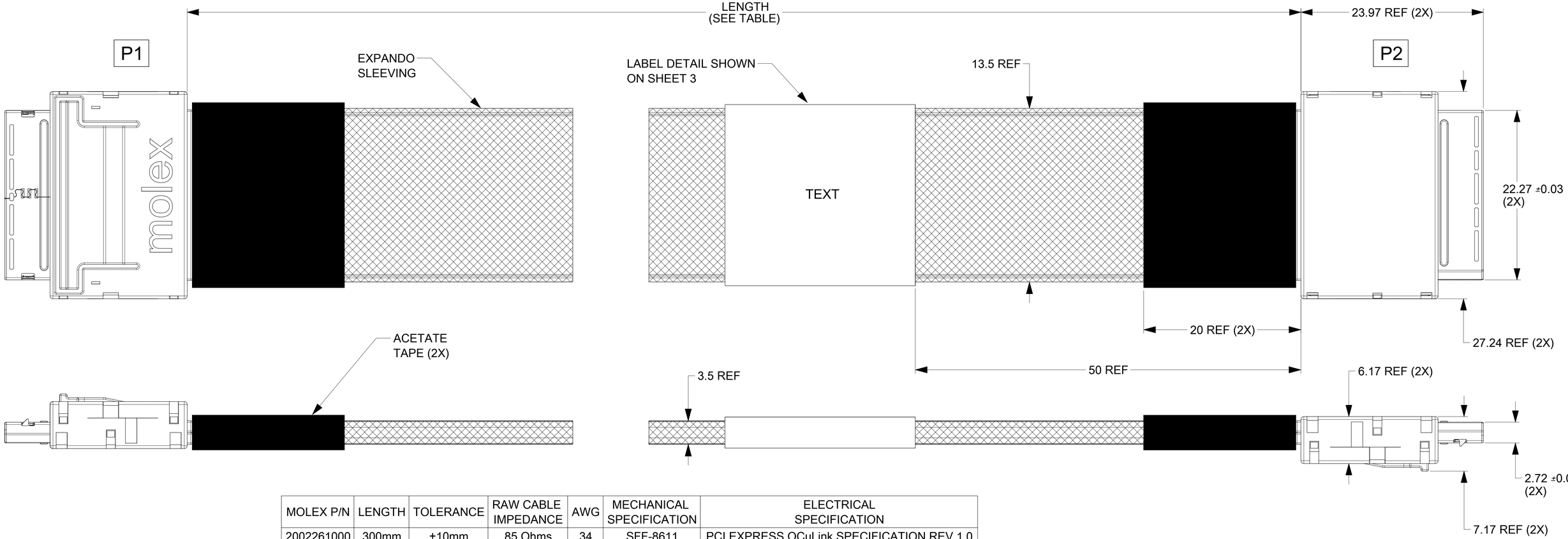





| MOLEX P/N | LENGTH | TOLERANCE | RAW CABLE IMPEDANCE | AWG | MECHANICAL SPECIFICATION | ELECTRICAL SPECIFICATION |
|---|---|---|---|---|---|---|
| 2002261000 | 300mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2002261001 | 500mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2002261002 | 1000mm | ±15mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2002261003 | 200mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 EXCEPT RETURN LOSS AND FITTED IL |
| 2002261004 | 600mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |

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 COATED 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.

4.

QUALITY SYMBOLS
A = 0
E = 0
F = 0
▼ = 0
C = 0
☒ = 0
■ = 0
C = 0

EC NO: 120766 2017/07/28
DRWN: HLIN24 2017/08/17
CHK'D: LOU01 2017/08/21
APPR: RHSU01

REV: E

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: SSUTTER DATE: 2015/09/21
CHK'D BY: SSUTTER DATE: 2016/03/18
APPR BY: JCDEMPSEY DATE: 2016/05/10
DRAWING SIZE: D
THIRD ANGLE PROJECTION

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

molex®

NPIO 8X STRAIGHT TO NPIO 8X STRAIGHT

PRODUCT CUSTOMER DRAWING

| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 200226 | SEE TABLE | GENERAL MARKET |

| DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER |
|---|---|---|---|
| 2002261000 | PSD | 000 | 1 OF 3 |

| RELEASE STATUS | P1 | RELEASE DATE | 21.08.2017 | 02:26:59 |
|---|---|---|---|---|

TEMPLATE: MOLEX SIZE D
REVISION: 00
DATE: 2016/12/14

# PINOUT TABLE

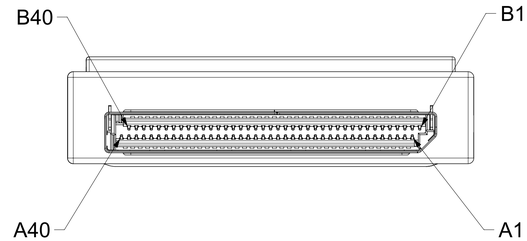
| P1 | | SIGNAL TYPE | WIRE ID | P2 | |
|---|---|---|---|---|---|
| PIN # | DESCRIPTION | | | PIN # | DESCRIPTION |
| A1 | GROUND | ---- | TWINAX1 | B1 | GROUND |
| A2 | PERp0 | <--- | TWINAX1 | B2 | PETp0 |
| A3 | PERn0 | <--- | TWINAX1 | B3 | PETn0 |
| A4 | GROUND | ---- | TWINAX2 | B4 | GROUND |
| A5 | PERp1 | <--- | TWINAX2 | B5 | PETp1 |
| A6 | PERn1 | <--- | TWINAX2 | B6 | PETn1 |
| A7 | GROUND | ---- | TWINAX3 | B7 | GROUND |
| A8 | BP_TYPEA | <--- | TWINAX3 | B8 | BP_TYPEA |
| A9 | CWAKEA# | <--> | TWINAX3 | B9 | CWAKEA# |
| A10 | RESERVED | NC | NO WIRE | B10 | RESERVED |
| A11 | VSPA+ | <--> | TWINAX4 | B11 | VSPA+ |
| A12 | VSPA- | <--> | TWINAX4 | B12 | VSPA- |
| A13 | GROUND | ---- | TWINAX4 | B13 | GROUND |
| A14 | PERp2 | <--- | TWINAX5 | B14 | PETp2 |
| A15 | PERn2 | <--- | TWINAX5 | B15 | PETn2 |
| A16 | GROUND | ---- | TWINAX5 | B16 | GROUND |
| A17 | PERp3 | <--- | TWINAX6 | B17 | PETp3 |
| A18 | PERn3 | <--- | TWINAX6 | B18 | PETn3 |
| A19 | GROUND | ---- | TWINAX6 | B19 | GROUND |
| A20 | RESERVED | NC | NO WIRE | B20 | RESERVED |
| A21 | RESERVED | NC | NO WIRE | B21 | RESERVED |
| A22 | GROUND | ---- | TWINAX7 | B22 | GROUND |
| A23 | PERp4 | <--- | TWINAX7 | B23 | PETp4 |
| A24 | PERn4 | <--- | TWINAX7 | B24 | PETn4 |
| A25 | GROUND | ---- | TWINAX8 | B25 | GROUND |
| A26 | PERp5 | <--- | TWINAX8 | B26 | PETp5 |
| A27 | PERn5 | <--- | TWINAX8 | B27 | PETn5 |
| A28 | GROUND | ---- | TWINAX9 | B28 | GROUND |
| A29 | BP_TYPEB | <--- | TWINAX9 | B29 | BP_TYPEB |
| A30 | CWAKEB# | <--> | TWINAX9 | B30 | CWAKEB# |
| A31 | RESERVED | NC | NO WIRE | B31 | RESERVED |
| A32 | VSPB+ | <--> | TWINAX10 | B32 | VSPB+ |
| A33 | VSPB- | <--> | TWINAX10 | B33 | VSPB- |
| A34 | GROUND | ---- | TWINAX10 | B34 | GROUND |
| A35 | PERp6 | <--- | TWINAX11 | B35 | PETp6 |
| A36 | PERn6 | <--- | TWINAX11 | B36 | PETn6 |
| A37 | GROUND | ---- | TWINAX11 | B37 | GROUND |
| A38 | PERp7 | <--- | TWINAX12 | B38 | PETp7 |
| A39 | PERn7 | <--- | TWINAX12 | B39 | PETn7 |
| A40 | GROUND | ---- | TWINAX12 | B40 | GROUND |

| P1 | | SIGNAL TYPE | WIRE ID | P2 | |
|---|---|---|---|---|---|
| PIN # | DESCRIPTION | | | PIN # | DESCRIPTION |
| B1 | GROUND | ---- | TWINAX13 | A1 | GROUND |
| B2 | PETp0 | ---> | TWINAX13 | A2 | PERp0 |
| B3 | PETn0 | ---> | TWINAX13 | A3 | PERn0 |
| B4 | GROUND | ---- | TWINAX14 | A4 | GROUND |
| B5 | PETp1 | ---> | TWINAX14 | A5 | PERp1 |
| B6 | PETn1 | ---> | TWINAX14 | A6 | PERn1 |
| B7 | GROUND | ---- | TWINAX15 | A7 | GROUND |
| B8 | 2-WIRE CLOCKA | <--> | TWINAX15 | A8 | 2-WIRE CLOCKA |
| B9 | 2-WIRE DATAA | <--> | TWINAX15 | A9 | 2-WIRE DATAA |
| B10 | RESERVED | NC | NO WIRE | A10 | RESERVED |
| B11 | PERSTA# | <--> | TWINAX16 | A11 | PERSTA# |
| B12 | CPRSNTA# | <--> | TWINAX16 | A12 | CPRSNTA# |
| B13 | GROUND | ---- | TWINAX16 | A13 | GROUND |
| B14 | PETp2 | ---> | TWINAX17 | A14 | PERp2 |
| B15 | PETn2 | ---> | TWINAX17 | A15 | PERn2 |
| B16 | GROUND | ---- | TWINAX17 | A16 | GROUND |
| B17 | PETp3 | ---> | TWINAX18 | A17 | PERp3 |
| B18 | PETn3 | ---> | TWINAX18 | A18 | PERn3 |
| B19 | GROUND | ---- | TWINAX18 | A19 | GROUND |
| B20 | RESERVED | NC | NO WIRE | A20 | RESERVED |
| B21 | RESERVED | NC | NO WIRE | A21 | RESERVED |
| B22 | GROUND | ---- | TWINAX19 | A22 | GROUND |
| B23 | PETp4 | ---> | TWINAX19 | A23 | PERp4 |
| B24 | PETn4 | ---> | TWINAX19 | A24 | PERn4 |
| B25 | GROUND | ---- | TWINAX20 | A25 | GROUND |
| B26 | PETp5 | ---> | TWINAX20 | A26 | PERp5 |
| B27 | PETn5 | ---> | TWINAX20 | A27 | PERn5 |
| B28 | GROUND | ---- | TWINAX21 | A28 | GROUND |
| B29 | 2-WIRE CLOCKB | <--> | TWINAX21 | A29 | 2-WIRE CLOCKB |
| B30 | 2-WIRE DATAB | <--> | TWINAX21 | A30 | 2-WIRE DATAB |
| B31 | RESERVED | NC | NO WIRE | A31 | RESERVED |
| B32 | PERSTB# | <--> | TWINAX22 | A32 | PERSTB# |
| B33 | CPRSNTB# | <--> | TWINAX22 | A33 | CPRSNTB# |
| B34 | GROUND | ---- | TWINAX22 | A34 | GROUND |
| B35 | PETp6 | ---> | TWINAX23 | A35 | PERp6 |
| B36 | PETn6 | ---> | TWINAX23 | A36 | PERn6 |
| B37 | GROUND | ---- | TWINAX23 | A37 | GROUND |
| B38 | PETp7 | ---> | TWINAX24 | A38 | PERp7 |
| B39 | PETn7 | ---> | TWINAX24 | A39 | PERn7 |
| B40 | GROUND | ---- | TWINAX24 | A40 | GROUND |

LEGEND

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

## P1 & P2




| RELEASE STATUS | P1 | RELEASE DATE | 21.08.2017 02:26:59 |
|---|---|---|---|

| QUALITY SYMBOLS | | | |
|---|---|---|---|
| | = 0 | | |
| | = 0 | | |
| | = 0 | | |
| | = 0 | | |
| | = 0 | | |
| | = 0 | | |
| | = 0 | | |
| | = 0 | | |

2017/07/28 EC NO: 120766
2017/08/17 DRWN: HLIN24
2017/08/21 CHK'D: LOU01
APPR: RHSU01

REV: E

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: SSUTTER DATE: 2015/09/21
CHK'D BY: SSUTTER DATE: 2016/03/18
APPR BY: JCDEMPSEY DATE: 2016/05/10
DRAWING SIZE: D
THIRD ANGLE PROJECTION

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NPIO 8X STRAIGHT TO NPIO 8X STRAIGHT

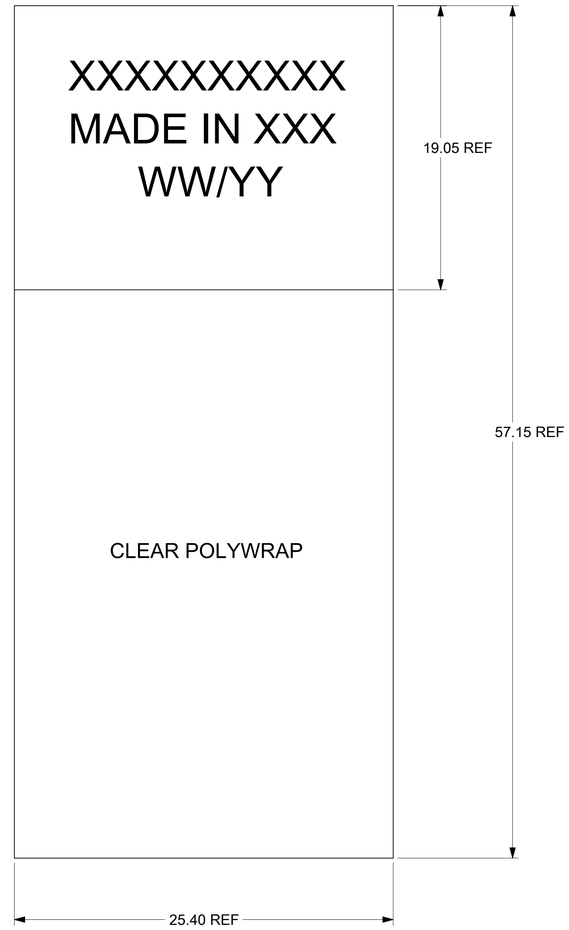
PRODUCT CUSTOMER DRAWING

| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 200226 | SEE TABLE | GENERAL MARKET |

| DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER |
|---|---|---|---|
| 2002261000 | PSD | 000 | 2 OF 3 |

## LABEL DETAIL

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




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

QUALITY SYMBOLS
FA = 0
FC = 0
FD = 0
= 0
C = 0
= 0
= 0
G = 0

EC NO: 120766 2017/07/28
DRWN: HLIN24 2017/08/17
CHK'D: LOU01 2017/08/21
APPR: RHSU01

REV: E

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| ANGULAR TOL ± | ° |
| 4 PLACES | ± |
| 3 PLACES | ± |
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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DRWN BY: SSUTTER DATE: 2015/09/21
CHK'D BY: SSUTTER DATE: 2016/03/18
APPR BY: JCDEMPSEY DATE: 2016/05/10
DRAWING SIZE: D
THIRD ANGLE PROJECTION

molex®

# NPIO 8X STRAIGHT TO NPIO 8X STRAIGHT

PRODUCT CUSTOMER DRAWING

| SERIES | MATERIAL NUMBER | CUSTOMER |
|---|---|---|
| 200226 | SEE TABLE | GENERAL MARKET |

| DOCUMENT NUMBER | DOC TYPE | DOC PART | SHEET NUMBER |
|---|---|---|---|
| 2002261000 | PSD | 000 | 3 OF 3 |

| RELEASE STATUS | P1 | RELEASE DATE | 21.08.2017 02:26:59 |
|---|---|---|---|

Author: Hallie Scarpitti
Filename:
DATE 21/8/2017