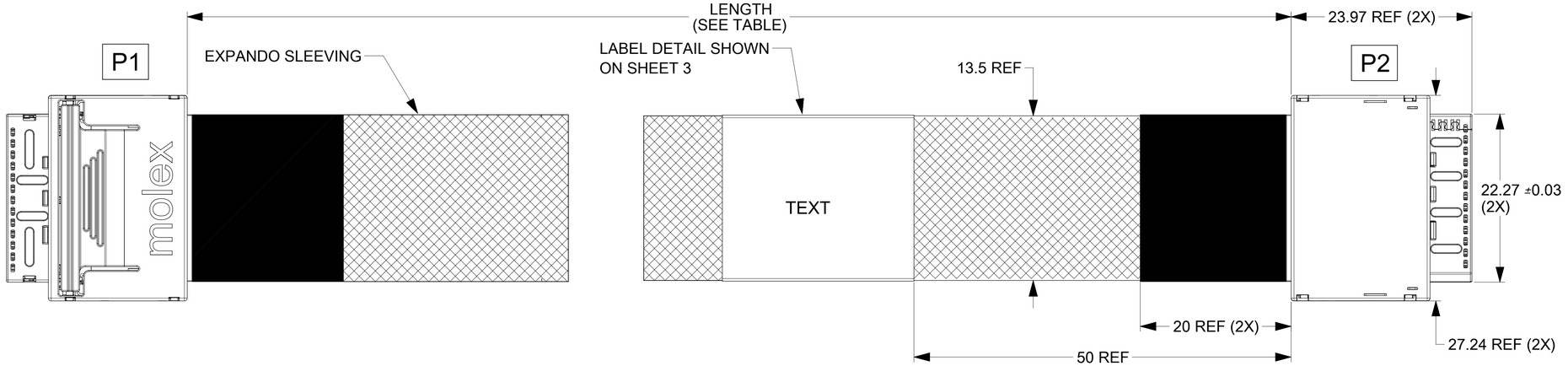
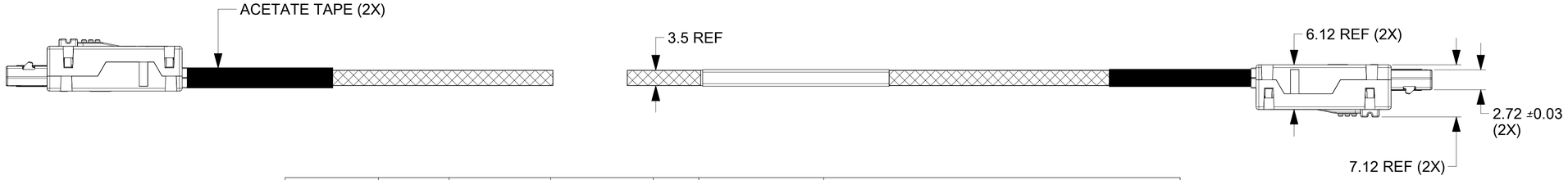





| MOLEX P/N | LENGTH | TOLERANCE | RAW CABLE IMPEDANCE | AWG | MECHANICAL SPECIFICATION | ELECTRICAL SPECIFICATION |
|---|---|---|---|---|---|---|
| 2050581000 | 300mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2050581001 | 500mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2050581002 | 1000mm | ±15mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2050581003 | 200mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 EXCEPT RETURN LOSS AND FITTED IL |
| 2050581004 | 600mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2050581005 | 650mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2050581007 | 350mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 |
| 2050581010 | 150mm | ±10mm | 85 Ohms | 34 | SFF-8611 | PCI EXPRESS OCuLink SPECIFICATION REV 1.0 EXCEPT RETURN LOSS AND FITTED IL |

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.

| DOCUMENT STATUS | P1 | RELEASE DATE | 2019/08/02 07:22:37 |
|---|---|---|---|

SYMBOLS
▽ = 0
▽ = 0
▽ = 0
▽ = 0
▽ = 0
▽ = 0
▽ = 0
▽ = 0
▽ = 0

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

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 621788
DRWN: SMALLESHAPPA 2019/08/01
CHK'D: PHSU01 2019/08/02
APPR: VPENG01 2019/08/02

INITIAL REVISION:
DRWN: LOU01 2017/08/07
APPR: RHSU01 2017/08/23

molex

8X STR NPIO TO 8X STR NPIO 2PC LATCH

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 2050581000 | PSD | 000 | E |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | D-SIZE | 205058 | SEE P/N TABLE | GENERAL MARKET | 1 OF 4 |

# PINOUT TABLE

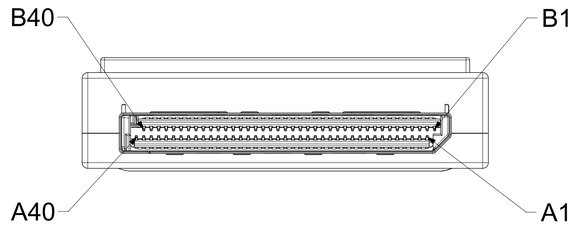
| P1 | | SIGNAL TYPE | WIRE ID | P2 | |
|---|---|---|---|---|---|
| PIN # | DESCRIPTION | | | PIN # | DESCRIPTION |
| A1 | GROUND | ---- | TWINAX1 | B1 | GROUND |
| A2 | PERp0 | <--- | TWINAX1 | B2 | PETp0 |
| A3 | PERn0 | <--- | TWINAX1 | B3 | PETn0 |
| A4 | GROUND | ---- | TWINAX2 | B4 | GROUND |
| 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




| DOCUMENT STATUS | P1 | RELEASE DATE | 2019/08/02 07:22:37 |
|---|---|---|---|

SYMBOLS
X.X = 0
X.XX = 0
X.XXX = 0
ANGLE = 0
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
GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± °

CURRENT REV DESC:

EC NO: 621788
DRWN: SMALLESHAPPA 2019/08/01
CHK'D: PHSU01 2019/08/02
APPR: VPENG01 2019/08/02

INITIAL REVISION:
DRWN: LOU01 2017/08/07
APPR: RHSU01 2017/08/23

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 205058

molex

8X STR NPIO TO 8X STR NPIO 2PC LATCH

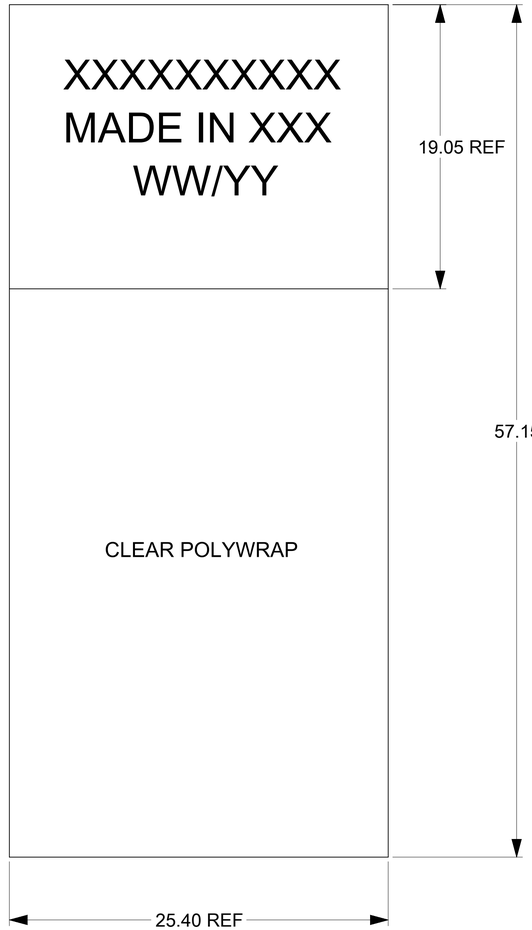
PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 2050581000 | PSD | 000 | E |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE P/N TABLE | GENERAL MARKET | 2 OF 4 |

## LABEL DETAIL

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




| SYMBOLS | DIMENSION UNITS | SCALE |
|---|---|---|
| = 0 | mm | NTS |
| = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | |
| = 0 | ANGULAR TOL ± ° | |
| = 0 | 4 PLACES ± | |
| = 0 | 3 PLACES ± | |
| = 0 | 2 PLACES ± | |
| = 0 | 1 PLACE ± | |
| = 0 | 0 PLACES ± | |
| = 0 | 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

CURRENT REV DESC:

EC NO: 621788
DRWN: SMALLESHAPPA 2019/08/01
CHK'D: PHSU01 2019/08/02
APPR: VPENG01 2019/08/02

INITIAL REVISION:
DRWN: LOU01 2017/08/07
APPR: RHSU01 2017/08/23

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 205058

molex

8X STR NPIO TO 8X STR NPIO 2PC LATCH

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 2050581000 | PSD | 000 | E |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE P/N TABLE | GENERAL MARKET | 3 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2019/08/02 07:22:37 |
|---|---|---|---|

Molex® creates its product to specifications, not claims.
DATE: 2018/07/19

| REVISION HISTORY | | | |
|---|---|---|---|
| DATE | REV | DESCRIPTION | ENGINEER |
| 2019/08/01 | E | SHEET 01: ADDED ONE MORE P/N 2050581010 TO THE P/N TABLE | SACHIN M K |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| SYMBOLS | |
|---|---|
| A = | 0 |
| C = | 0 |
| D = | 0 |
| S = | 0 |
| = | 0 |
| C = | 0 |
| = | 0 |
| = | 0 |
| = | 0 |

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |
| 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

CURRENT REV DESC:

EC NO: 621788
DRWN: SMALLESHAPPA 2019/08/01
CHK'D: PHSU01 2019/08/02
APPR: VPENG01 2019/08/02

INITIAL REVISION:
DRWN: LOU01 2017/08/07
APPR: RHSU01 2017/08/23

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 205058

molex

8X STR NPIO TO 8X STR NPIO 2PC LATCH

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 2050581000 | PSD | 000 | E |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| | GENERAL MARKET | 4 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2019/08/02 07:22:37 |
|---|---|---|---|

TEMPLATE: master-fp-prod-C
VERSION: 001
DATE: 2018/01/16