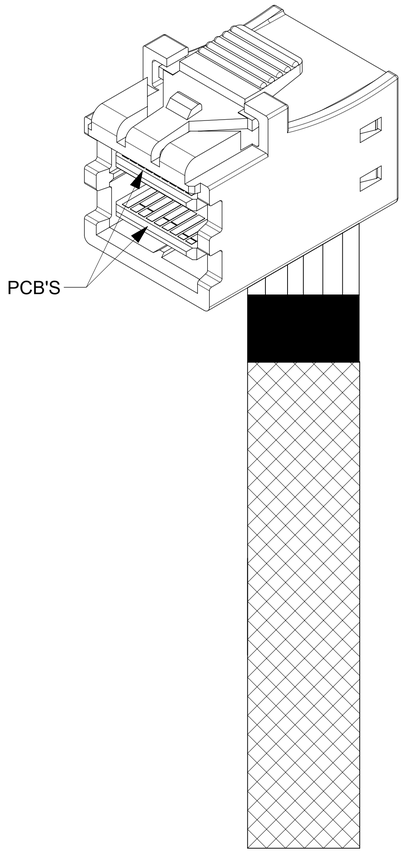
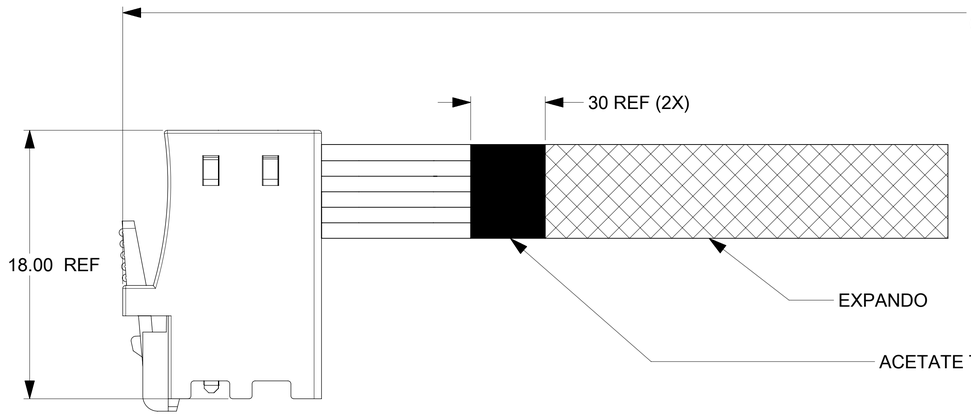
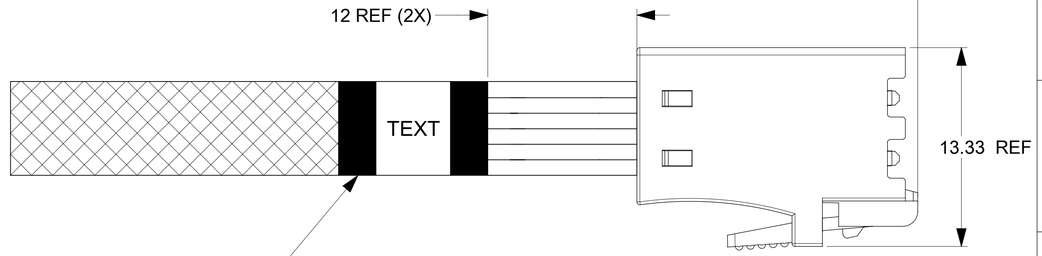
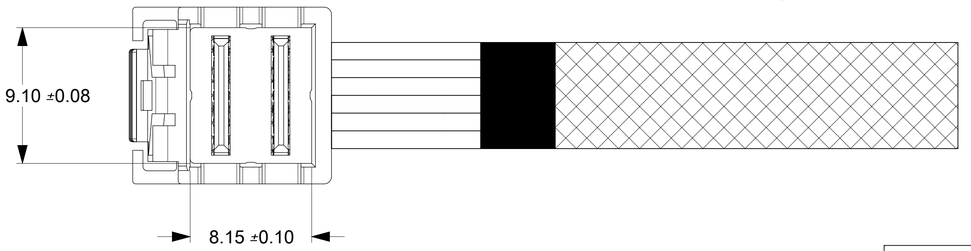


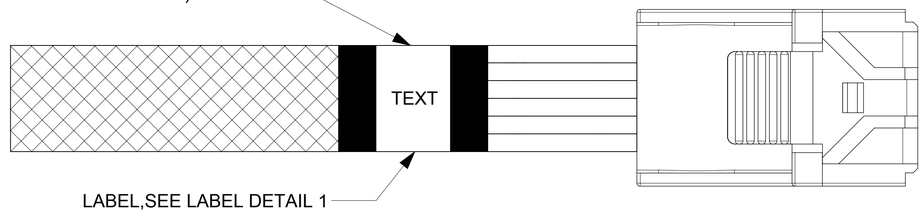




P1




LABEL TEXT ORIENTATION
AS SHOWN
(LABEL IS CENTERED BETWEEN ACETATE TAPE)

P2




| MOLEX P/N | AWG | IMPEDANCE (OHM) | LENGTH (mm) | TOLERANCE (+-mm) | DESCRIPTION | PINOUT |
|---|---|---|---|---|---|---|
| 1002220100 | 30 | 85 | 152 | 10 | CTRL TO BP | 1 |
| 1002220101 | 30 | 85 | 300 | 10 | CTRL TO BP | 1 |
| 1002220102 | 30 | 85 | 500 | 10 | CTRL TO BP | 1 |
| 1002220103 | 30 | 85 | 600 | 10 | CTRL TO BP | 1 |
| 1002220104 | 30 | 85 | 1000 | 15 | CTRL TO BP | 1 |
| 1002220200 | 30 | 85 | 152 | 10 | CTRL TO CTRL | 2 |
| 1002220201 | 30 | 85 | 300 | 10 | CTRL TO CTRL | 2 |
| 1002220202 | 30 | 85 | 500 | 10 | CTRL TO CTRL | 2 |
| 1002220203 | 30 | 85 | 600 | 10 | CTRL TO CTRL | 2 |
| 1002220204 | 30 | 85 | 1000 | 15 | CTRL TO CTRL | 2 |
| 1002220300 | 30 | 85 | 152 | 10 | PCIE | 3 |
| 1002220301 | 30 | 85 | 300 | 10 | PCIE | 3 |
| 1002220302 | 30 | 85 | 500 | 10 | PCIE | 3 |
| 1002220303 | 30 | 85 | 600 | 10 | PCIE | 3 |
| 1002220304 | 30 | 85 | 1000 | 15 | PCIE | 3 |

NOTES:
1. MATERIAL:
   HOUSING - GLASS FILLED NYLON, UL94-V0
   LATCH - MOLDED INTO HOUSING
   EXPANDO - PET
   CABLE - TWIN-AX SHIELD: ALUMNINIZED POLYESTER FOIL
   SIGNAL AND DRAIN: SOLID COPPER
   PCB - FR4 (HALOGEN FREE)
2. THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0
3. RoHS COMPLIANT. NO EXEMPTIONS

| DOCUMENT STATUS | P1 | RELEASE DATE | 2018/09/12 | 11:08:12 |
|---|---|---|---|---|

SYMBOLS
A = 0
E = 0
F = 0
S = 0
= 0
C = 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: mm
SCALE: 5:1
GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °
4 PLACES ±
3 PLACES ±
2 PLACES ± 0.13
1 PLACE ± 0.25
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 604318
DRWN: NHSU01 2018/07/23
CHK'D: VPENG01 2018/09/12
APPR: VPENG01 2018/09/12

INITIAL REVISION:
DRWN: CYEH03 2017/12/18
APPR: RHSU01 2018/02/13

THIRD ANGLE PROJECTION
DRAWING: D-SIZE
SERIES: 100222

molex

4X INT. HD SHORT BODY
RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1002220100 | PSD | 000 | E |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE P/N TABLE | GENERAL MARKET | 1 OF 3 |

## PINOUT 1

| CONTROLLER P1 | | | BACKPLANE P2 | |
|---|---|---|---|---|
| GND | D9 | N/C | B9 | GND |
| TX2- | D8 | ————> | B8 | RX2- |
| TX2+ | D7 | ————> | B7 | RX2+ |
| GND | D6 | ———— | B6 | GND |
| TX0- | D5 | ————> | B5 | RX0- |
| TX0+ | D4 | ————> | B4 | RX0+ |
| GND | D3 | ———— | B3 | GND |
| SB6 | D2 | ---------- | D1 | SB6 |
| SB5 | D1 | ---------- | D2 | SB5 |
| SB4 | C1 | ---------- | C2 | SB4 |
| SB2 | C2 | ---------- | C1 | SB2 |
| GND | C3 | ———— | A3 | GND |
| TX1+ | C4 | ————> | A4 | RX1+ |
| TX1- | C5 | ————> | A5 | RX1- |
| GND | C6 | ———— | A6 | GND |
| TX3+ | C7 | ————> | A7 | RX3+ |
| TX3- | C8 | ————> | A8 | RX3- |
| GND | C9 | N/C | A9 | GND |
| GND | B9 | N/C | D9 | GND |
| RX2- | B8 | <———— | D8 | TX2- |
| RX2+ | B7 | <———— | D7 | TX2+ |
| GND | B6 | ———— | D6 | GND |
| RX0- | B5 | <———— | D5 | TX0- |
| RX0+ | B4 | <———— | D4 | TX0+ |
| GND | B3 | ———— | D3 | GND |
| SB1 | B2 | ---------- | B1 | SB1 |
| SB3 | B1 | ---------- | B2 | SB3 |
| SB7 | A1 | ---------- | A2 | SB7 |
| SB0 | A2 | ---------- | A1 | SB0 |
| GND | A3 | ———— | C3 | GND |
| RX1+ | A4 | <———— | C4 | TX1+ |
| RX1- | A5 | <———— | C5 | TX1- |
| GND | A6 | ———— | C6 | GND |
| RX3+ | A7 | <———— | C7 | TX3+ |
| RX3- | A8 | <———— | C8 | TX3- |
| GND | A9 | N/C | C9 | GND |

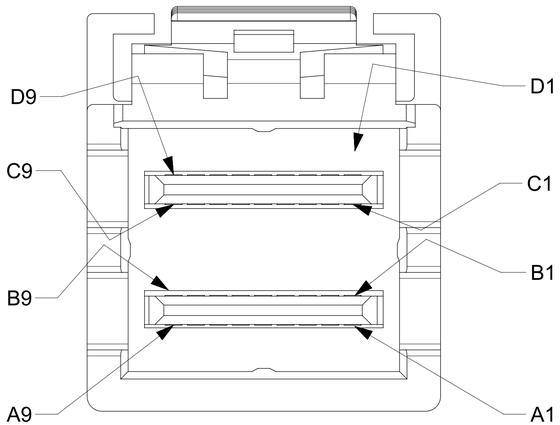
## PINOUT 2

| CONTROLLER P1 | | | CONTROLLER P2 | |
|---|---|---|---|---|
| GND | D9 | N/C | B9 | GND |
| TX2- | D8 | ————> | B8 | RX2- |
| TX2+ | D7 | ————> | B7 | RX2+ |
| GND | D6 | ———— | B6 | GND |
| TX0- | D5 | ————> | B5 | RX0- |
| TX0+ | D4 | ————> | B4 | RX0+ |
| GND | D3 | ———— | B3 | GND |
| SB6 | D2 | ---------- | B2 | SB1 |
| SB5 | D1 | ---------- | C2 | SB2 |
| SB4 | C1 | ---------- | B1 | SB3 |
| SB2 | C2 | ---------- | D1 | SB5 |
| GND | C3 | ———— | A3 | GND |
| TX1+ | C4 | ————> | A4 | RX1+ |
| TX1- | C5 | ————> | A5 | RX1- |
| GND | C6 | ———— | A6 | GND |
| TX3+ | C7 | ————> | A7 | RX3+ |
| TX3- | C8 | ————> | A8 | RX3- |
| GND | C9 | N/C | A9 | GND |
| GND | B9 | N/C | D9 | GND |
| RX2- | B8 | <———— | D8 | TX2- |
| RX2+ | B7 | <———— | D7 | TX2+ |
| GND | B6 | ———— | D6 | GND |
| RX0- | B5 | <———— | D5 | TX0- |
| RX0+ | B4 | <———— | D4 | TX0+ |
| GND | B3 | ———— | D3 | GND |
| SB1 | B2 | ---------- | D2 | SB6 |
| SB3 | B1 | ---------- | C1 | SB4 |
| SB7 | A1 | ---------- | A2 | SB0 |
| SB0 | A2 | ---------- | A1 | SB7 |
| GND | A3 | ———— | C3 | GND |
| RX1+ | A4 | <———— | C4 | TX1+ |
| RX1- | A5 | <———— | C5 | TX1- |
| GND | A6 | ———— | C6 | GND |
| RX3+ | A7 | <———— | C7 | TX3+ |
| RX3- | A8 | <———— | C8 | TX3- |
| GND | A9 | N/C | C9 | GND |

## PINOUT 3

| PCIE P1 | | | P2 | |
|---|---|---|---|---|
| GND | D9 | N/C | B9 | GND |
| TX2- | D8 | ————> | B8 | RX2- |
| TX2+ | D7 | ————> | B7 | RX2+ |
| GND | D6 | ———— | B6 | GND |
| TX0- | D5 | ————> | B5 | RX0- |
| TX0+ | D4 | ————> | B4 | RX0+ |
| GND | D3 | ———— | B3 | GND |
| SB6 | D2 | ---------- | D1 | SB6 |
| SB5 | D1 | ---------- | D2 | SB5 |
| WAKEn | C1 | ---------- | C2 | CWAKEn |
| RSTn | C2 | ---------- | C1 | CPERSTn |
| GND | C3 | ———— | A6 | GND |
| TX1+ | C4 | ————> | A4 | RX1+ |
| TX1- | C5 | ————> | A5 | RX1- |
| GND | C6 | ———— | A9 | GND |
| TX3+ | C7 | ————> | A7 | RX3+ |
| TX3- | C8 | ————> | A8 | RX3- |
| GND | C9 | N/C | C9 | GND |
| GND | B9 | N/C | D9 | GND |
| RX2- | B8 | <———— | D8 | TX2- |
| RX2+ | B7 | <———— | D7 | TX2+ |
| GND | B6 | ———— | D6 | GND |
| RX0- | B5 | <———— | D5 | TX0- |
| RX0+ | B4 | <———— | D4 | TX0+ |
| GND | B3 | ———— | D3 | GND |
| SB1 | B2 | ---------- | B1 | SB1 |
| SB3 | B1 | ---------- | B2 | SB3 |
| CLK+ | A1 | <———— | A2 | CLK+ |
| CLK- | A2 | <———— | A1 | CLK- |
| GND | A3 | ———— | A3 | GND |
| RX1+ | A4 | <———— | C4 | TX1+ |
| RX1- | A5 | <———— | C5 | TX1- |
| GND | A6 | ———— | C3 | GND |
| RX3+ | A7 | <———— | C7 | TX3+ |
| RX3- | A8 | <———— | C8 | TX3- |
| GND | A9 | ———— | C6 | GND |

LEGEND:
———— = GROUND LINES
--------- = THRU LINES
————> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS
N/C = NOT CONNECTED




| DOCUMENT STATUS | P1 | RELEASE DATE | 2018/09/12 11:08:12 |
|---|---|---|---|

SYMBOLS: F = 0, C = 0, P = 0, S = 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 | 10:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| ANGULAR TOL | ± 1.0 ° |
| 4 PLACES | ± |
| 3 PLACES | ± |
| 2 PLACES | ± 0.13 |
| 1 PLACE | ± 0.25 |
| 0 PLACES | ± |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 604318
DRWN: NHSU01 2018/07/23
CHK'D: VPENG01 2018/09/12
APPR: VPENG01 2018/09/12

INITIAL REVISION:
DRWN: CYEH03 2017/12/18
APPR: RHSU01 2018/02/13

molex

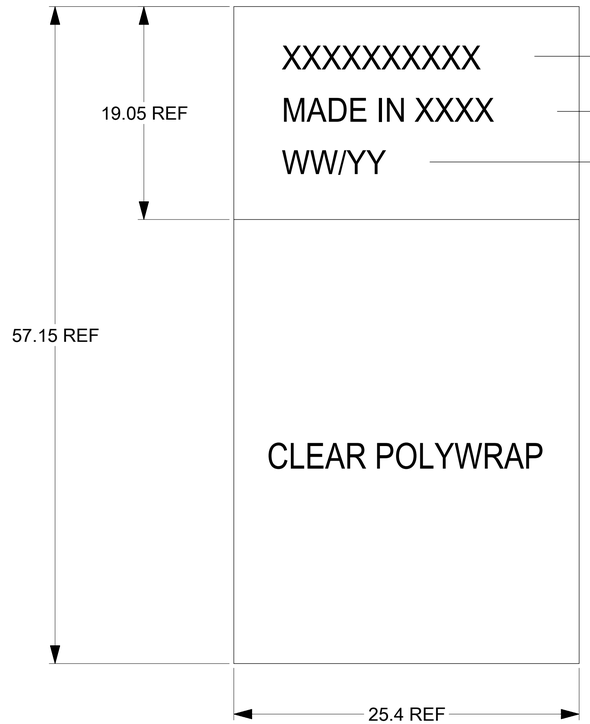
4X INT. HD SHORT BODY
RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1002220100 | PSD | 000 | E |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | D-SIZE | 100222 | SEE P/N TABLE | GENERAL MARKET | 2 OF 3 |

## LABEL DETAIL




MOLEX PART NUMBER (SEE P/N TABLE)

XXXX:MANUFACTURING LOCATION

MANUFACTURING DATE

WW: WEEK OF THE YEAR (0-52)

YY: LAST TWO DIGITS OF THE YEAR

| DOCUMENT STATUS | P1 | RELEASE DATE | 2018/09/12 11:08:12 |
|---|---|---|---|

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|---|---|
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| EC | = 0 |
| EP | = 0 |
| S | = 0 |
| ▼ | = 0 |
| C | = 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 | 1:1 |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL | ± | 1.0 ° |
| 4 PLACES | ± | |
| 3 PLACES | ± | |
| 2 PLACES | ± | 0.13 |
| 1 PLACE | ± | 0.25 |
| 0 PLACES | ± | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 604318

DRWN: NHSU01 2018/07/23

CHK'D: VPENG01 2018/09/12

APPR: VPENG01 2018/09/12

INITIAL REVISION:

DRWN: CYEH03 2017/12/18

APPR: RHSU01 2018/02/13

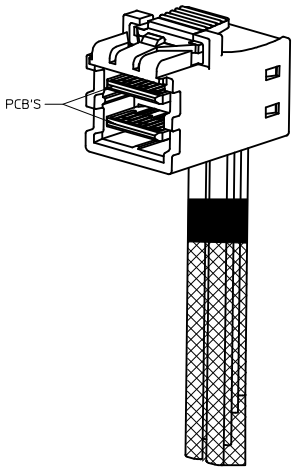
molex

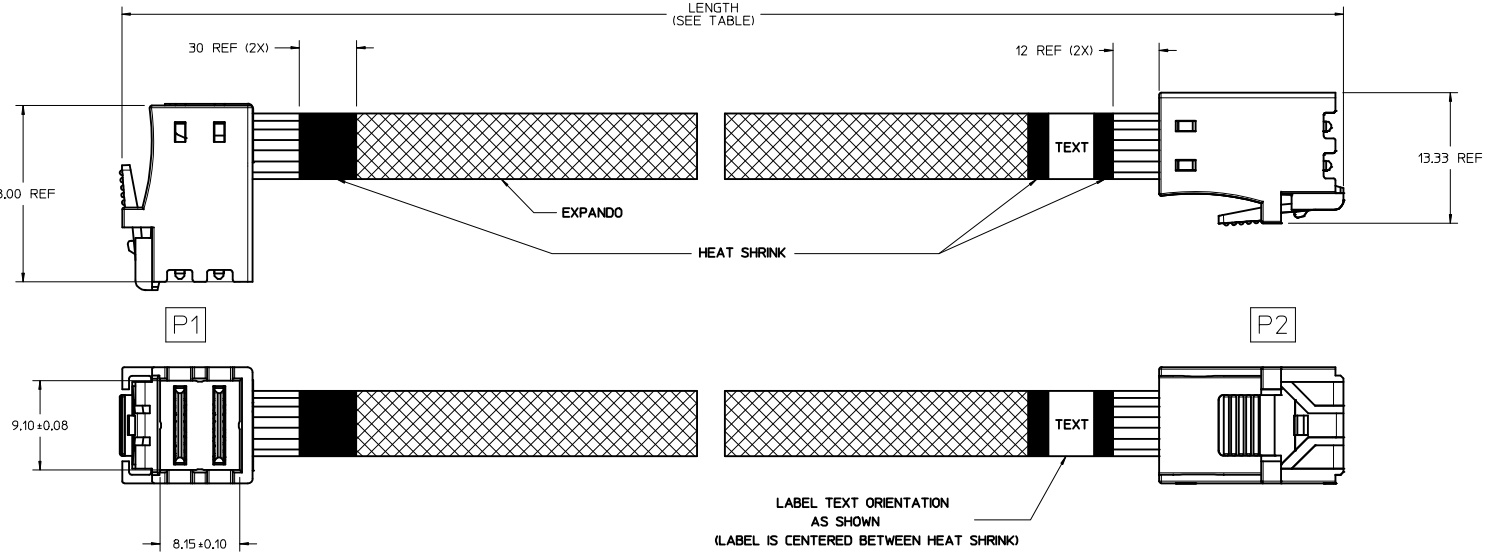
4X INT. HD SHORT BODY
RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| 1002220100 | PSD | 000 | E |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | D-SIZE | 100222 | SEE P/N TABLE | GENERAL MARKET | 3 OF 3 |




| MOLEX P/N | AWG | LENGTH (mm) | TOLERANCE (±mm) | DESCRIPTION | PINOUT |
|---|---|---|---|---|---|
| 1002220100 | 30 | 0.152 | 10 | CTRL TO BP | 1 |
| 1002220101 | 30 | 0.300 | 10 | CTRL TO BP | 1 |
| 1002220102 | 30 | 0.500 | 10 | CTRL TO BP | 1 |
| 1002220103 | 30 | 0.600 | 10 | CTRL TO BP | 1 |
| 1002220104 | 30 | 1.000 | 15 | CTRL TO BP | 1 |
| 1002220200 | 30 | 0.152 | 10 | CTRL TO CTRL | 2 |
| 1002220201 | 30 | 0.300 | 10 | CTRL TO CTRL | 2 |
| 1002220202 | 30 | 0.500 | 10 | CTRL TO CTRL | 2 |
| 1002220203 | 30 | 0.600 | 10 | CTRL TO CTRL | 2 |
| 1002220204 | 30 | 1.000 | 15 | CTRL TO CTRL | 2 |
| 1002220300 | 30 | 0.152 | 10 | PCIE | 3 |
| 1002220301 | 30 | 0.300 | 10 | PCIE | 3 |
| 1002220302 | 30 | 0.500 | 10 | PCIE | 3 |
| 1002220303 | 30 | 0.600 | 10 | PCIE | 3 |
| 1002220304 | 30 | 1.000 | 15 | PCIE | 3 |

NOTES:
1. MATERIAL:
   HOUSING - 30% GLASS FILLED NYLON, UL94-V0
   LATCH - MOLDED INTO HOUSING
   EXPANDO - PET
   CABLE - TWIN-AX SHIELD: ALUMNINIZED POLYESTER FOIL
   SIGNAL AND DRAIN: SOLID COPPER
   PCB - FR4 (HALOGEN FREE)
2. THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0
3. RoHS COMPLIANT. NO EXEMPTIONS

UPDATED PINOUT
EC NO: CPG2015-4494 2015/02/25
DRWN:TPRATT
CHKD:
APPR:CHIRSCHY 2015/03/03
DESCRIPTION
REV C

QUALITY SYMBOLS
⌀=0
⌀=0
⌀=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| 0 PLACE | ± --- | ± --- |

ANGULAR ± 1 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

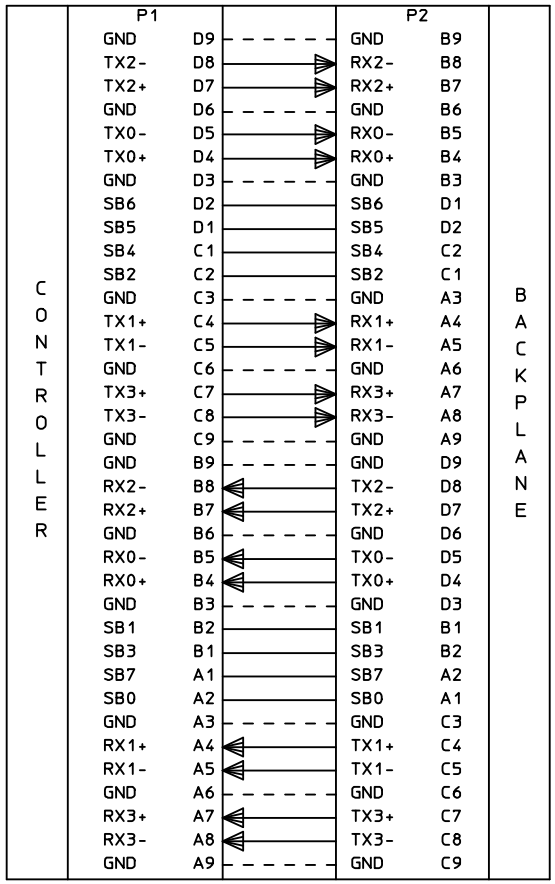
DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TPRATT DATE: 2014/02/26
CHECKED BY: PSYTSMA DATE: 2014/02/26
APPROVED BY: CHIRSCHY DATE: 2014/03/21
MATERIAL NO.: SEE P/N TABLE
SIZE: D

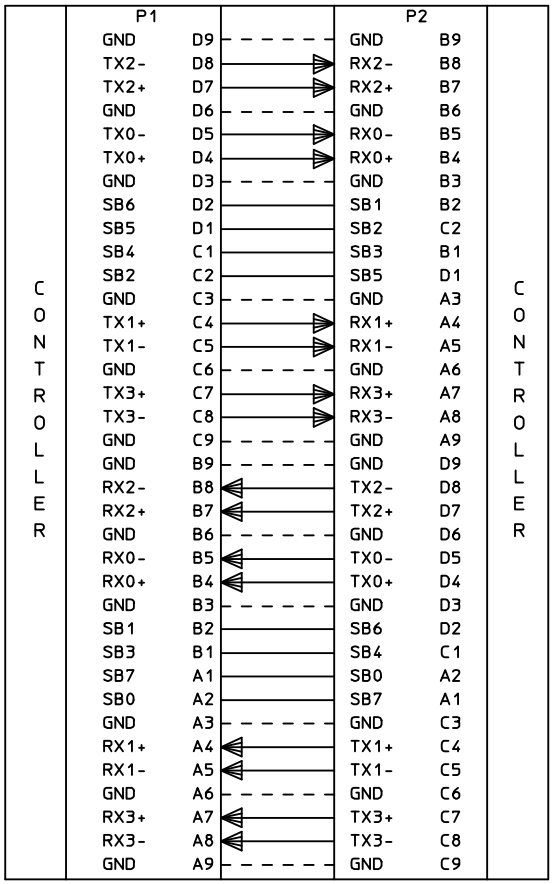
TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM
molex
DOCUMENT NO.: SD-100222-0100
SHEET NO.: 1 OF 3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

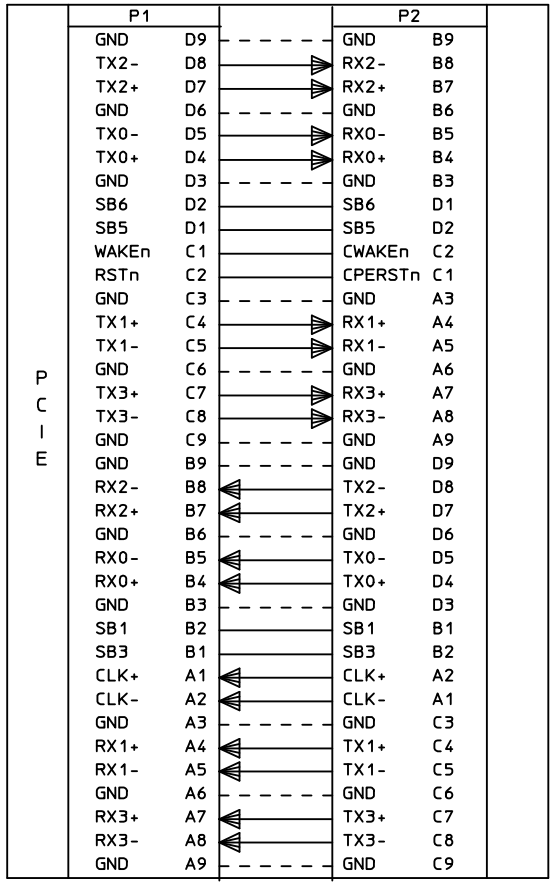
## PINOUT 1

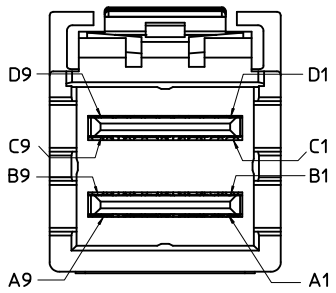



## PINOUT 2




## PINOUT 3




LEGEND:

---- = THRU LINES

--▷ = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS

UPDATED PINOUT
EC NO: CPG2015-4494 2015/02/25
DRWN:TPRATT
CHKD:
APPR:CHIRSCHY 2015/03/03
DESCRIPTION
REV C

QUALITY SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| 0 PLACE | ± --- | ± --- |

ANGULAR ± 1 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TPRATT DATE: 2014/02/26
CHECKED BY: PSYTSMA DATE: 2014/02/26
APPROVED BY: CHIRSCHY DATE: 2014/03/21
MATERIAL NO.: SEE P/N TABLE

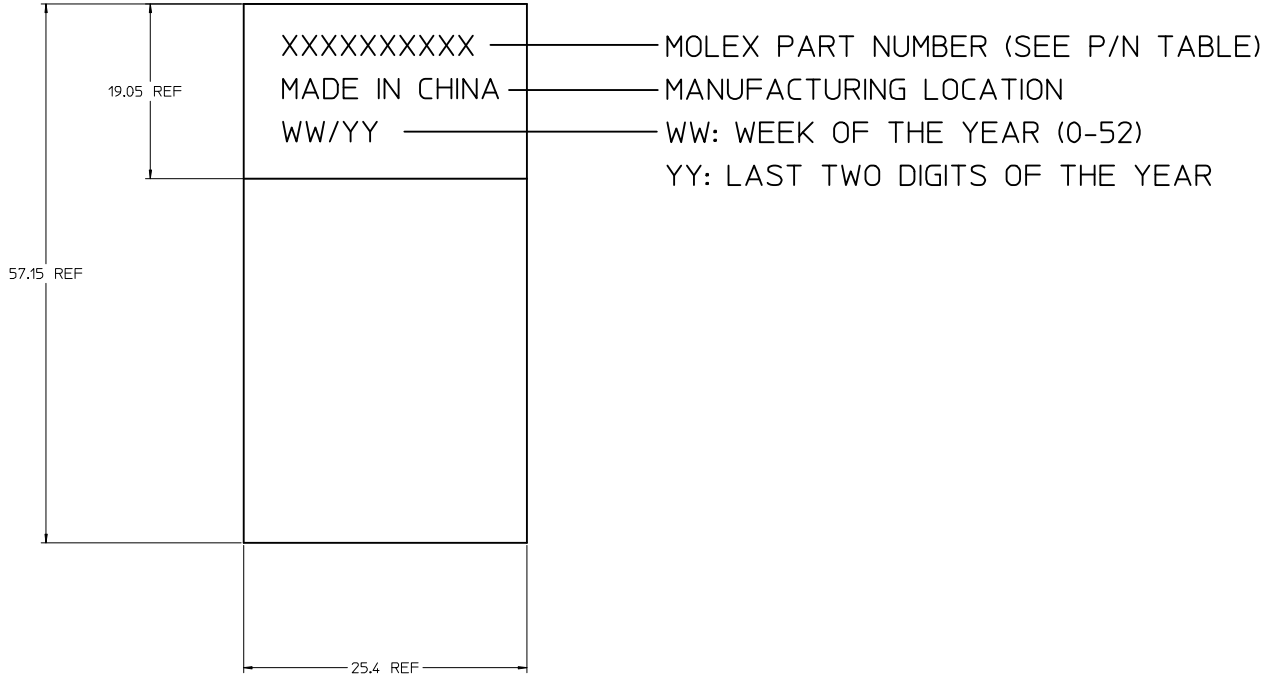
TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM

molex

DOCUMENT NO.: SD-100222-0100
SHEET NO.: 2 OF 3
SIZE: D

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

## LABEL DETAIL




UPDATED PINOUT
EC NO: CPG2015-4494 2015/02/25
DRWN:TPRATT
CHKD:
APPR:CHIRSCHY 2015/03/03
DESCRIPTION
REV C

QUALITY SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| 0 PLACE | ± --- | ± --- |
| ANGULAR ± 1 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TPRATT DATE: 2014/02/26
CHECKED BY: PSYTSMA DATE: 2014/02/26
APPROVED BY: CHIRSCHY DATE: 2014/03/21
MATERIAL NO.: SEE P/N TABLE
SIZE: D

TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM

molex

DOCUMENT NO.: SD-100222-0100
SHEET NO.: 3 OF 3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION