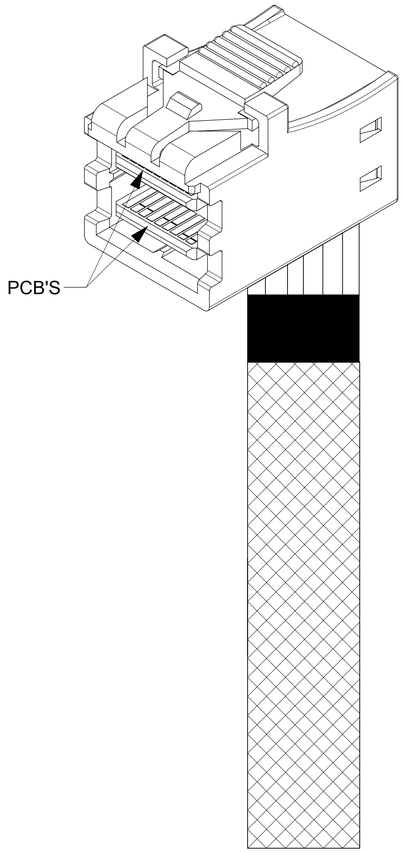
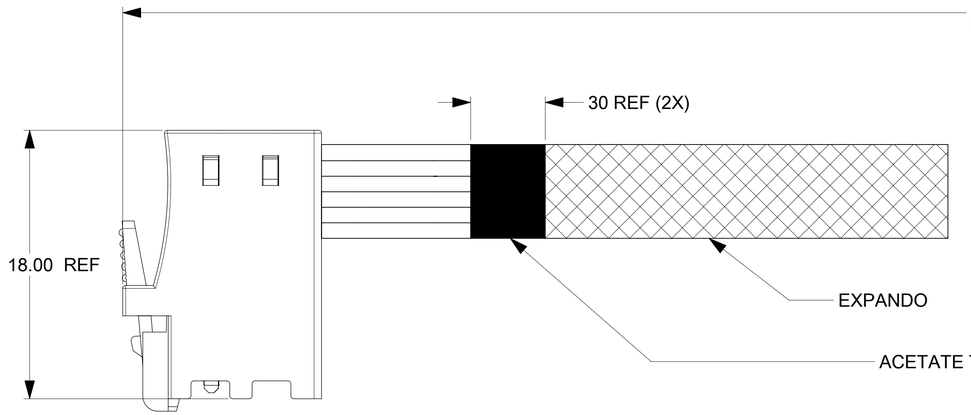
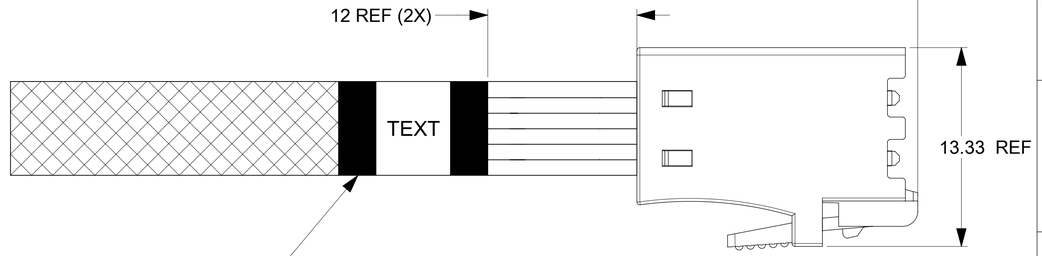
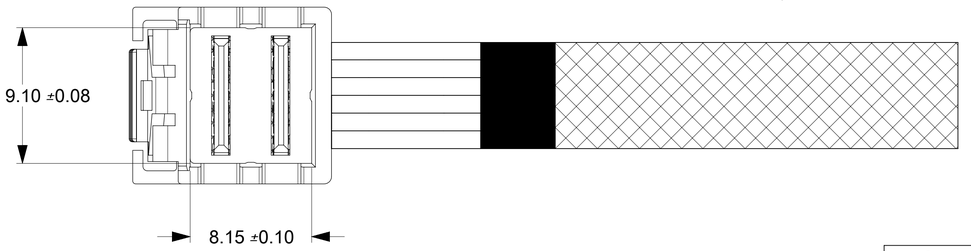




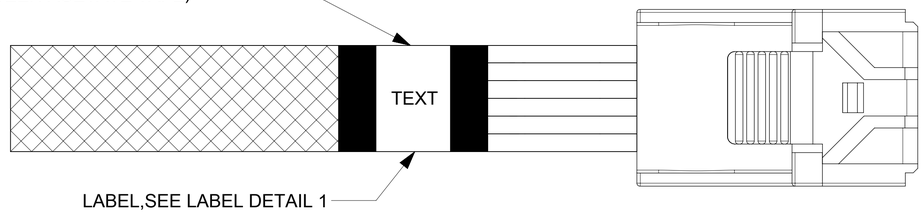


P1



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

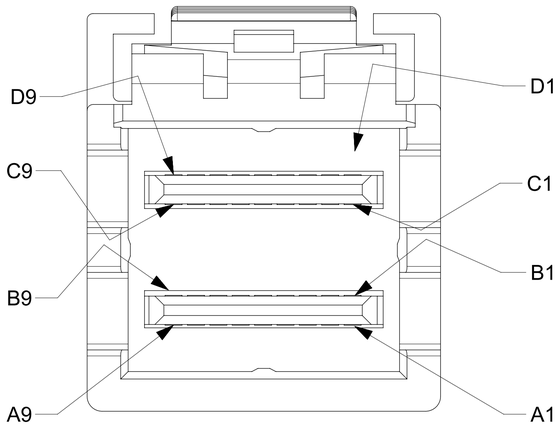
PINOUT 2

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

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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

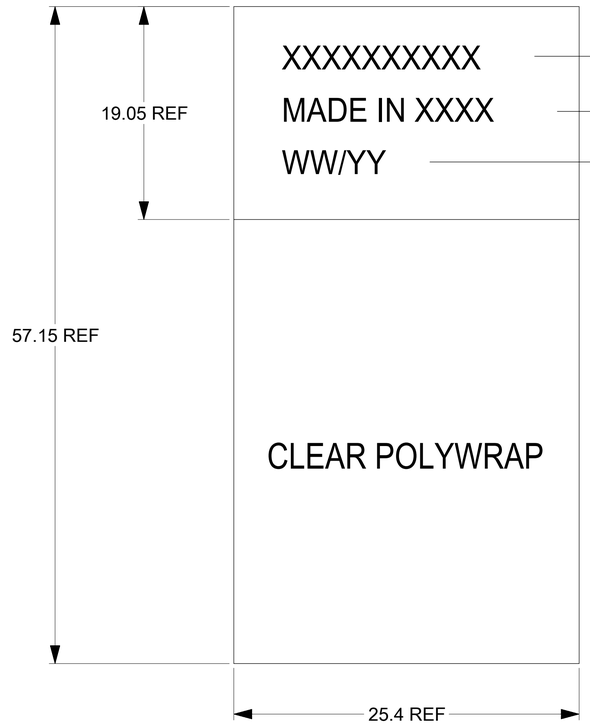
4X INT. HD SHORT BODY
RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM

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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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

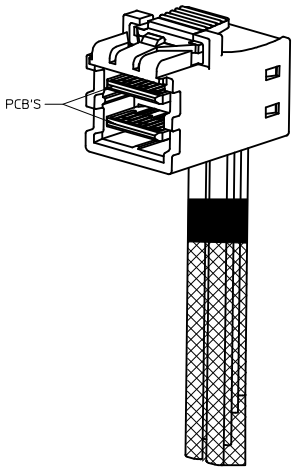
molex

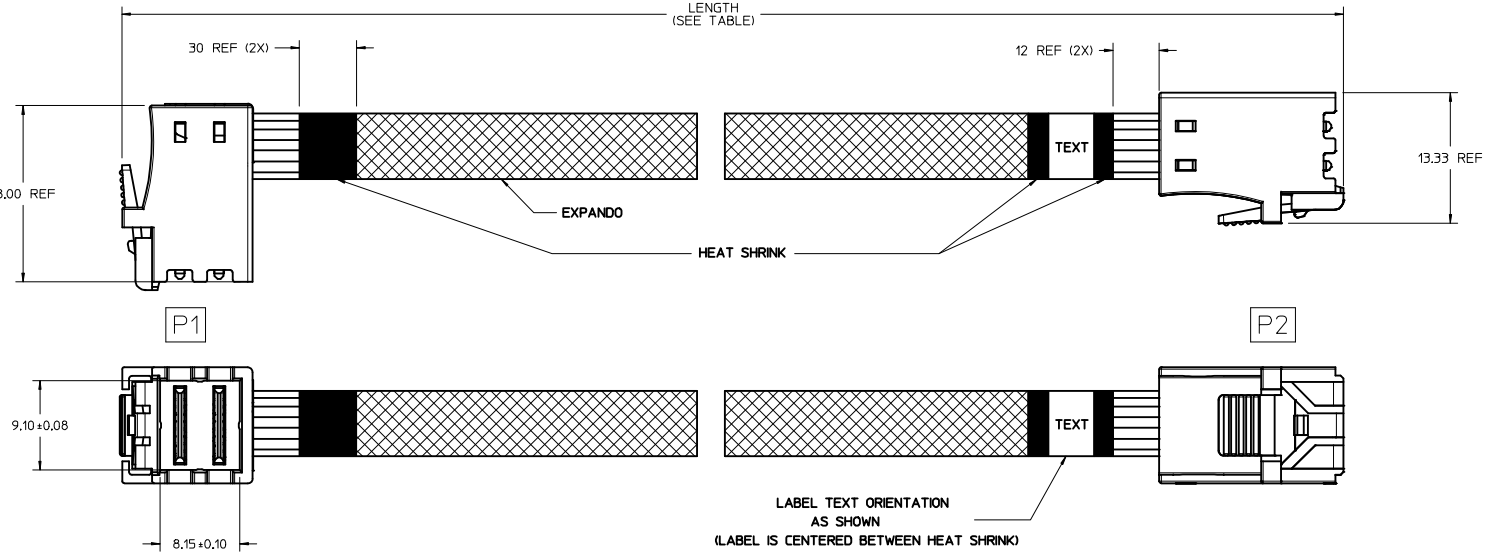
4X INT. HD SHORT BODY
RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM

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

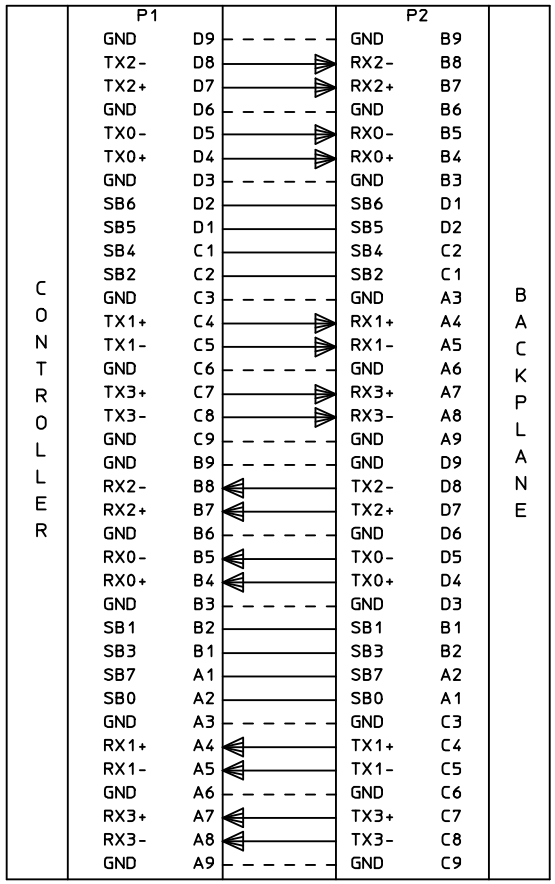
DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

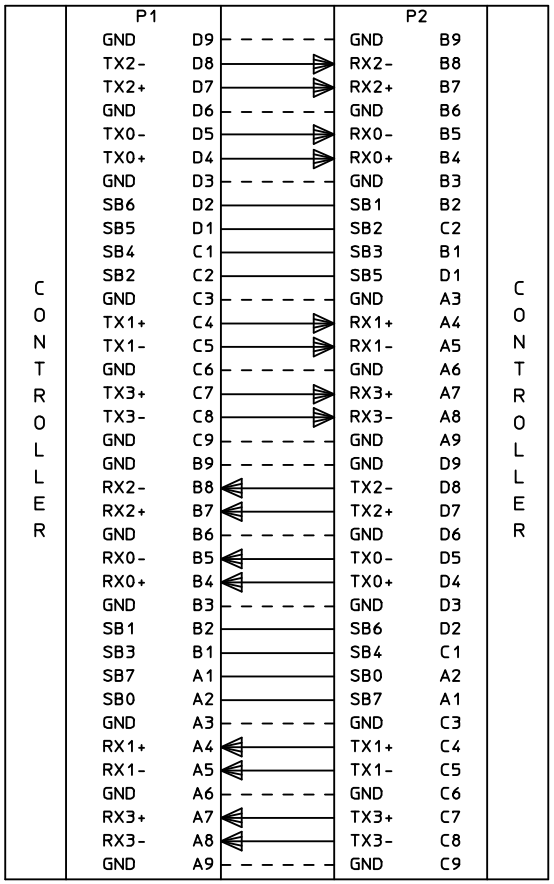
TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM
molex
DOCUMENT NO.: SD-100222-0100
SHEET NO.: 1 OF 3

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

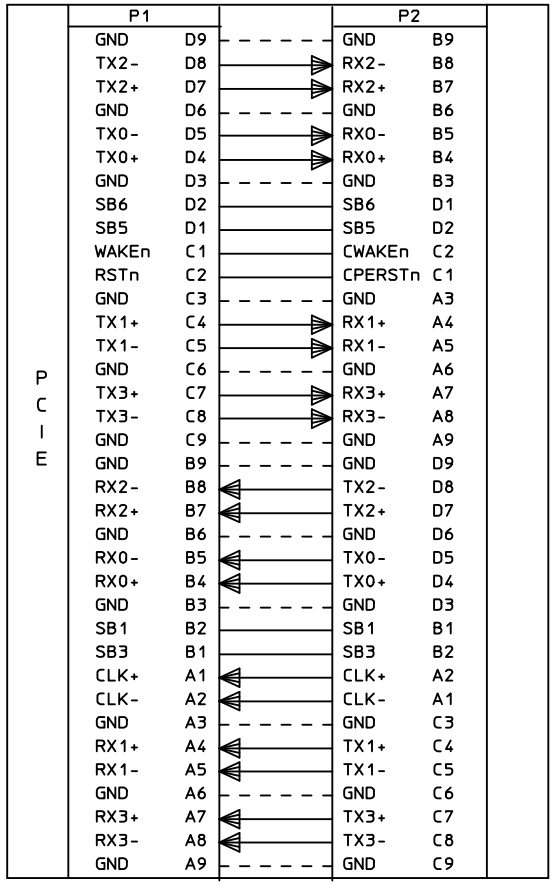
PINOUT 1

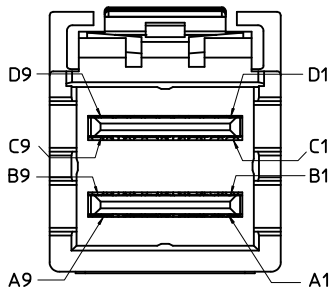


PINOUT 2



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

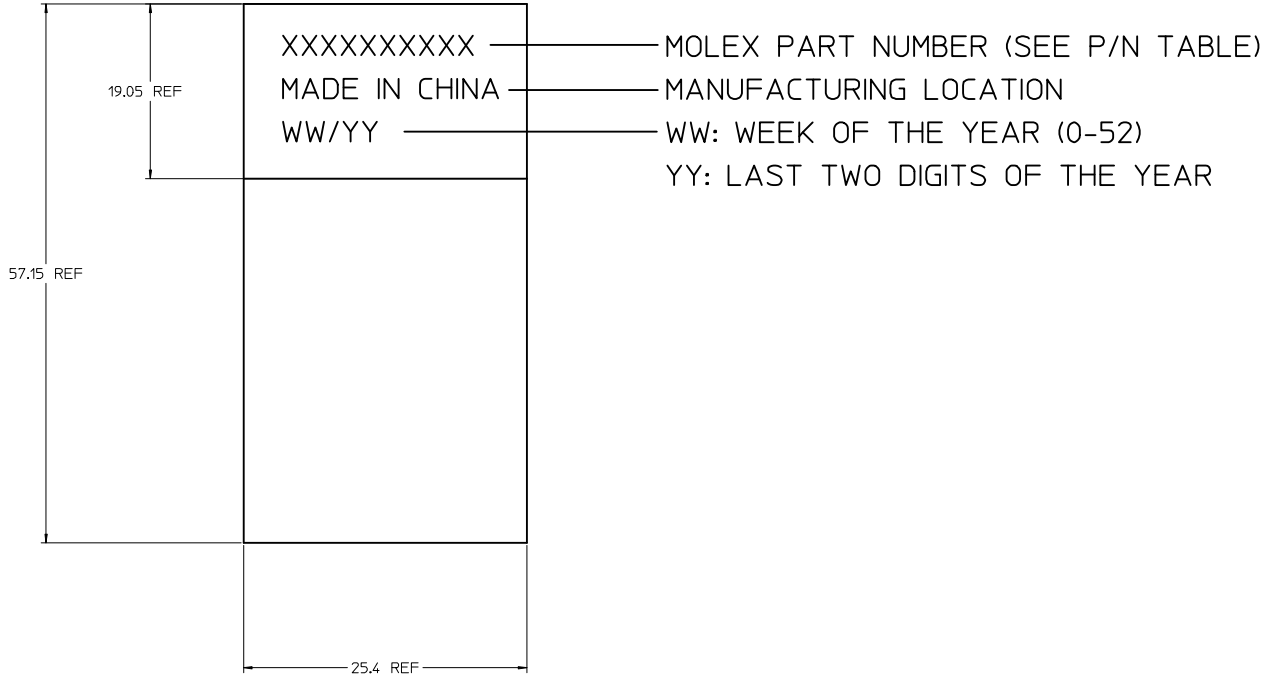
TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CBL ASSY 85 OHM

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