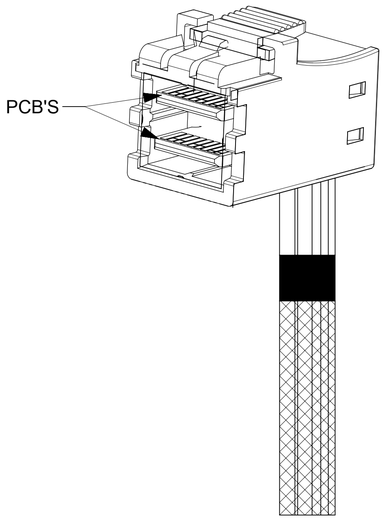
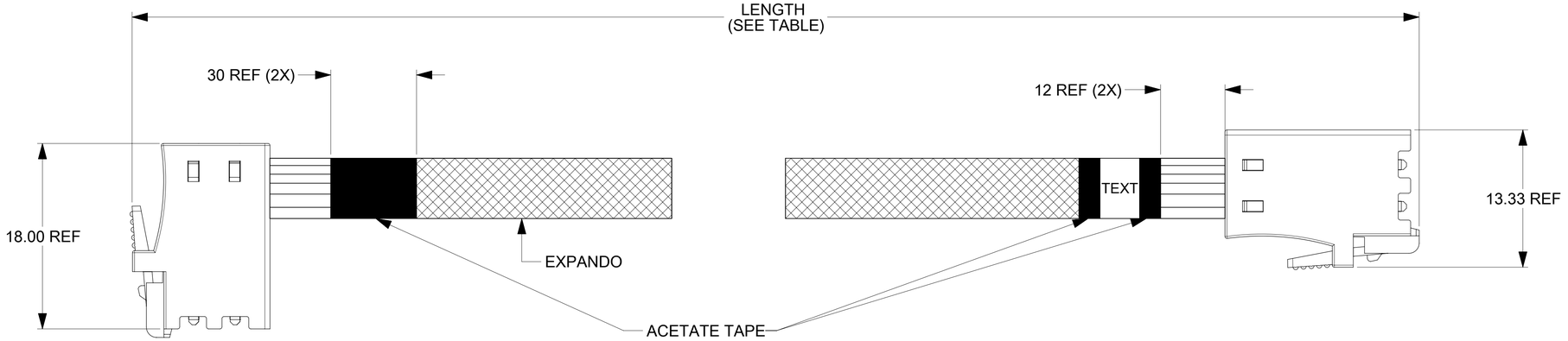
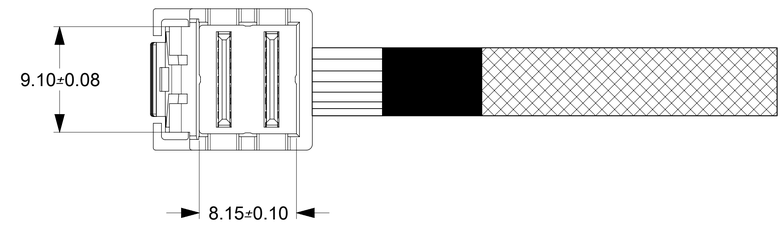
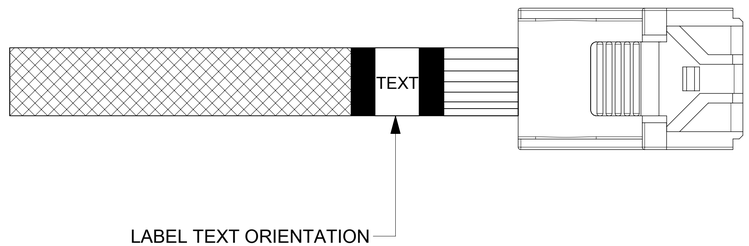




P1

P2





MOLEX P/N	AWG	IMPEDANCE	LENGTH(M)	TOLERNCE(+/-mm)	DESCRIPTION	PINOUT
1001710100	30	100 Ohms	0.152	10	CTRL TO BP	1
1001710101	30	100 Ohms	0.300	10	CTRL TO BP	1
1001710102	30	100 Ohms	0.500	10	CTRL TO BP	1
1001710103	30	100 Ohms	0.600	10	CTRL TO BP	1
1001710104	30	100 Ohms	1.000	15	CTRL TO BP	1
1001710200	30	100 Ohms	0.152	10	CTRL TO CTRL	2
1001710201	30	100 Ohms	0.300	10	CTRL TO CTRL	2
1001710202	30	100 Ohms	0.500	10	CTRL TO CTRL	2
1001710203	30	100 Ohms	0.600	10	CTRL TO CTRL	2
1001710204	30	100 Ohms	1.000	15	CTRL TO CTRL	2

NOTES:
1. MATERIAL:
   HOUSING - 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	2018/07/11 20:14:54

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DIMENSION UNITS	SCALE
mm	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: 601091
DRWN: HLIN24 2017/09/12
CHK'D: VPENG01 2018/07/11
APPR: VPENG01 2018/07/11

INITIAL REVISION:
DRWN: HLIN24 2017/09/12
APPR: VPENG01 2018/07/11

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 100171

molex

HD 4X RAD TO HD 4X STR

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1001710100	PSD	000	D

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	1 OF 4

PINOUT 1

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
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

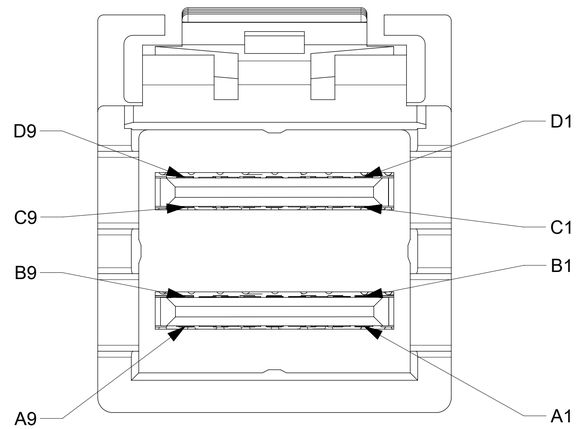
CONTROLLER

BACKPLANE

PINOUT 2

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	<---------->	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

CONTROLLER



LEGEND:
<--------> = SIDEBAND
--------> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS
--------- = GND

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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: 601091
DRWN: HLIN24 2017/09/12
CHK'D: VPENG01 2018/07/11
APPR: VPENG01 2018/07/11

INITIAL REVISION:
DRWN: HLIN24 2017/09/12
APPR: VPENG01 2018/07/11

THIRD ANGLE PROJECTION | DRAWING: D-SIZE | SERIES: 100171

molex

HD 4X RAD TO HD 4X STR

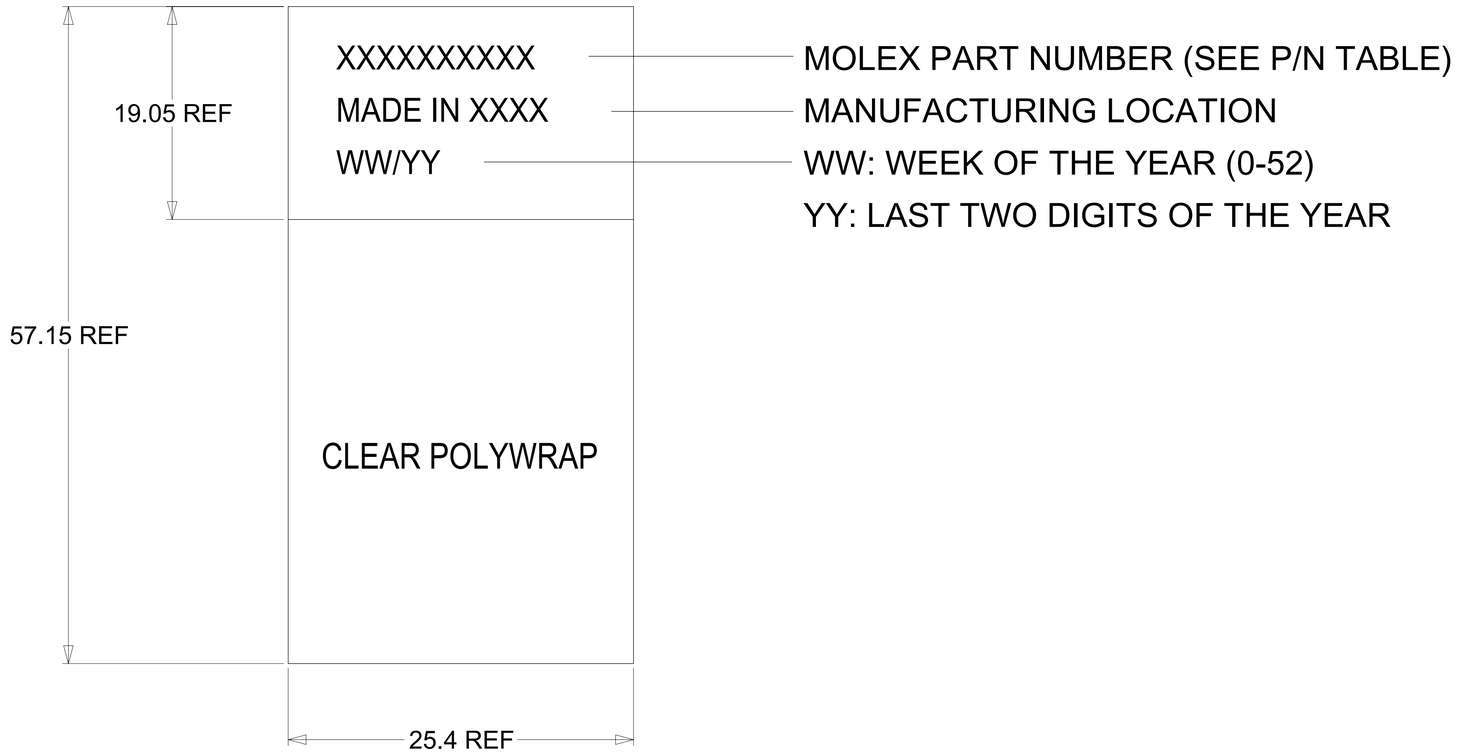
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1001710100	PSD	000	D

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	2 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/11 20:14:54

LABEL DETAIL



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: 601091
DRWN: HLIN24 2017/09/12
CHK'D: VPENG01 2018/07/11
APPR: VPENG01 2018/07/11

INITIAL REVISION:
DRWN: HLIN24 2017/09/12
APPR: VPENG01 2018/07/11

molex

HD 4X RAD TO HD 4X STR

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1001710100	PSD	000	D

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	100171		GENERAL MARKET	3 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/11 20:14:54

DATE	REV	DESCRIPTION
2018/07/06	D	CHANGE UNIVERSAL TYPE

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: 601091
DRWN: HLIN24 2017/09/12
CHK'D: VPENG01 2018/07/11
APPR: VPENG01 2018/07/11

INITIAL REVISION:
DRWN: HLIN24 2017/09/12
APPR: VPENG01 2018/07/11

molex

HD 4X RAD TO HD 4X STR

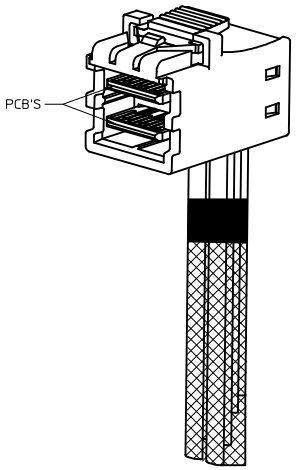
PRODUCT CUSTOMER DRAWING

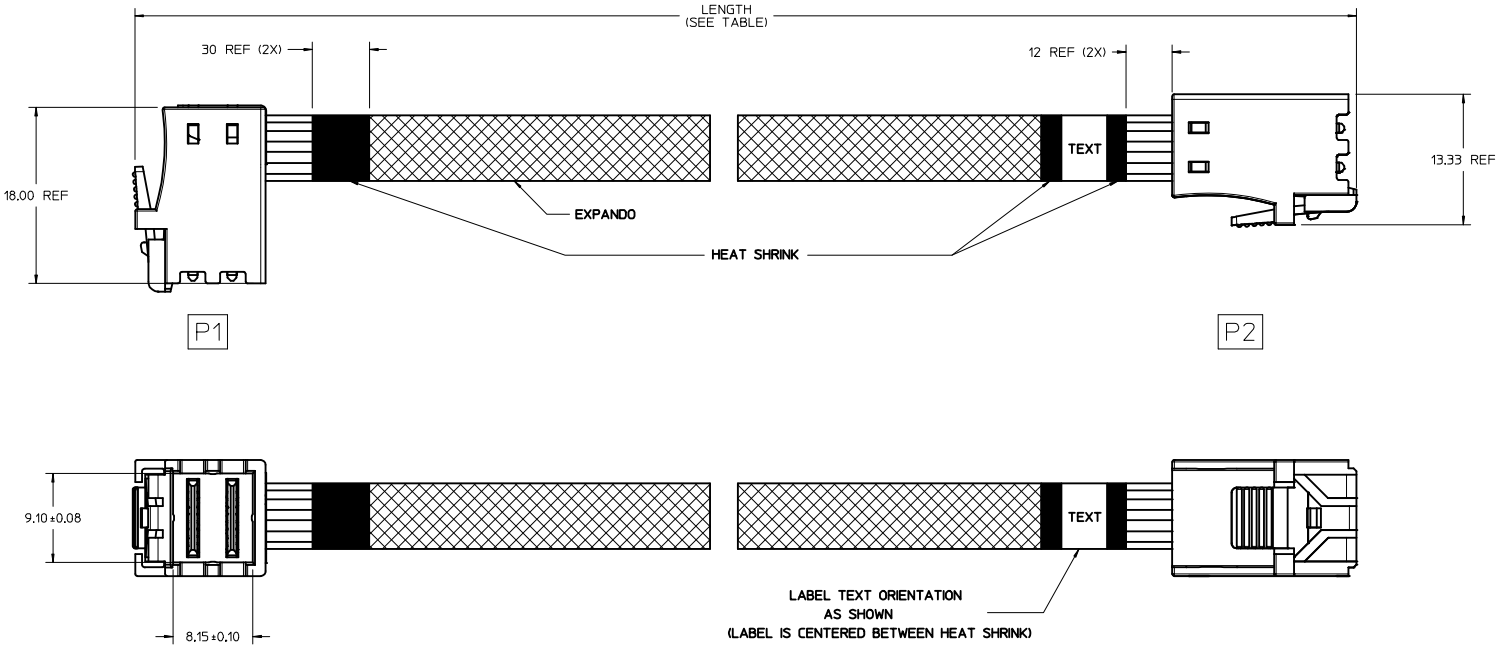
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1001710100	PSD	000	D

THIRD ANGLE PROJECTION	DRAWING	SERIES
	D-SIZE	100171

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	4 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2018/07/11 20:14:54





MOLEX P/N	AWG	LENGTH (M)	TOLERANCE (±mm)	DESCRIPTION	PINOUT
1001710100	30	0.152	10	CTRL TO BP	1
1001710101	30	0.300	10	CTRL TO BP	1
1001710102	30	0.500	10	CTRL TO BP	1
1001710103	30	0.600	10	CTRL TO BP	1
1001710104	30	1.000	15	CTRL TO BP	1
1001710200	30	0.152	10	CTRL TO CTRL	2
1001710201	30	0.300	10	CTRL TO CTRL	2
1001710202	30	0.500	10	CTRL TO CTRL	2
1001710203	30	0.600	10	CTRL TO CTRL	2
1001710204	30	1.000	15	CTRL TO CTRL	2

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

REVISE PINOUT
EC NO: CPG2015-5096 2014/06/17
DRWN:PSYTSMA 2015/05/28
CHKD:CHIRSCHY 2015/06/01
APPR:CHIRSCHY 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: 2014/02/17
CHECKED BY: PSYTSMA DATE: 2014/02/17
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 CABLE ASSY 100 OHM
molex
DOCUMENT NO.: SD-100171-0100
SHEET NO.: 1 OF 3

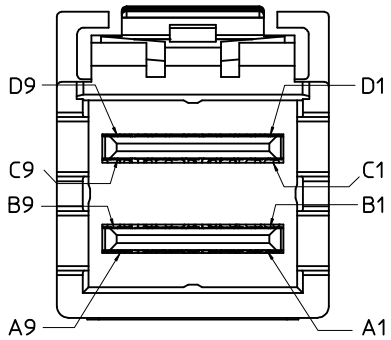
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

PINOUT 1

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

PINOUT 2

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



LEGEND:

---- = THRU LINES

--→ = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS

REV	DESCRIPTION
C	UPDATE PINOUT EC NO: CPG2015-5096 2014/06/17 DRWN:PSYTSMA 2015/05/28 CHKD:CHIRSCHY 2015/06/01 APPR:CHIRSCHY

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 2014/02/17
CHECKED BY	PSYTSMA	DATE 2014/02/17
APPROVED BY	CHIRSCHY	DATE 2014/03/21
MATERIAL NO.	SEE P/N TABLE	

TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CABLE ASSY 100 OHM

molex

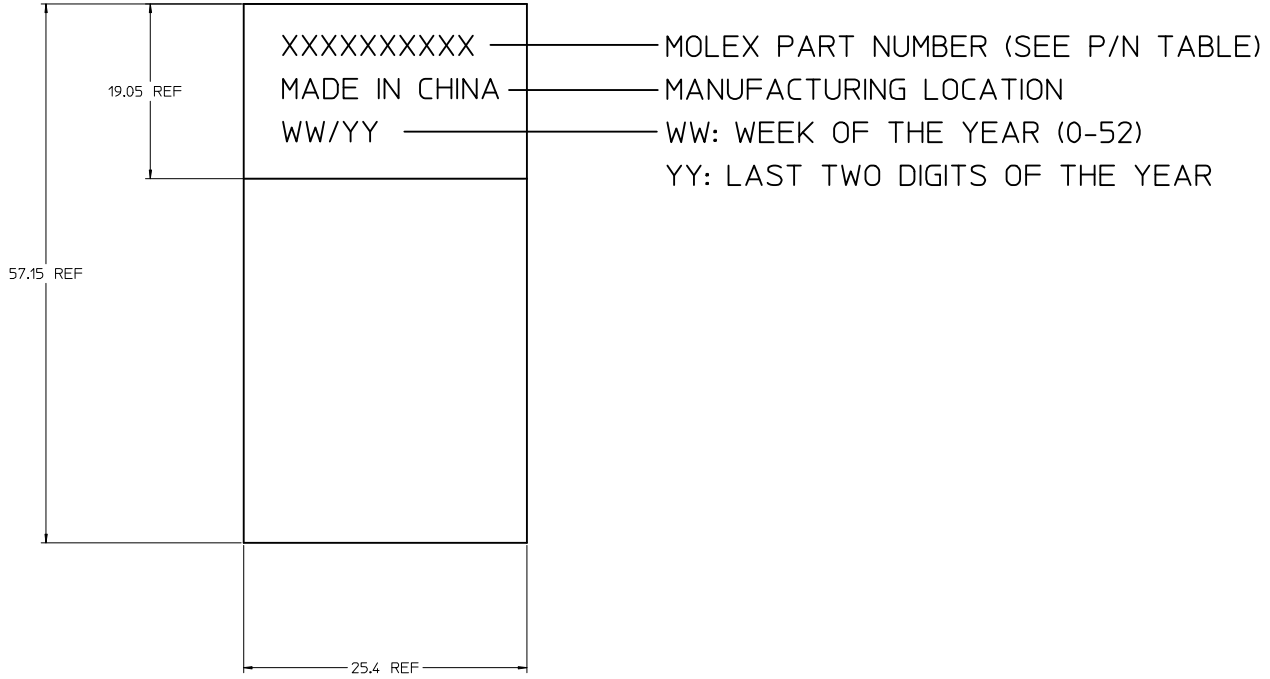
DOCUMENT NO.: SD-100171-0100

SHEET NO.: 2 OF 3

SIZE: D

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LABEL DETAIL



UPDATE PINOUT
EC NO: CPG2015-5096 2014/06/17
DRWN:PSYTSMA 2015/05/28
CHKD:CHIRSCHY 2015/06/01
APPR:CHIRSCHY DESCRIPTION
C REV

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: 2014/02/17
CHECKED BY: PSYTSMA DATE: 2014/02/17
APPROVED BY: CHIRSCHY DATE: 2014/03/21
MATERIAL NO.: SEE P/N TABLE

TITLE: 4X INT. HD SHORT BODY RIGHT ANGLE DOWN TO STR CABLE ASSY 100 OHM

molex

DOCUMENT NO.: SD-100171-0100
SHEET NO.: 3 OF 3
SIZE: D

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