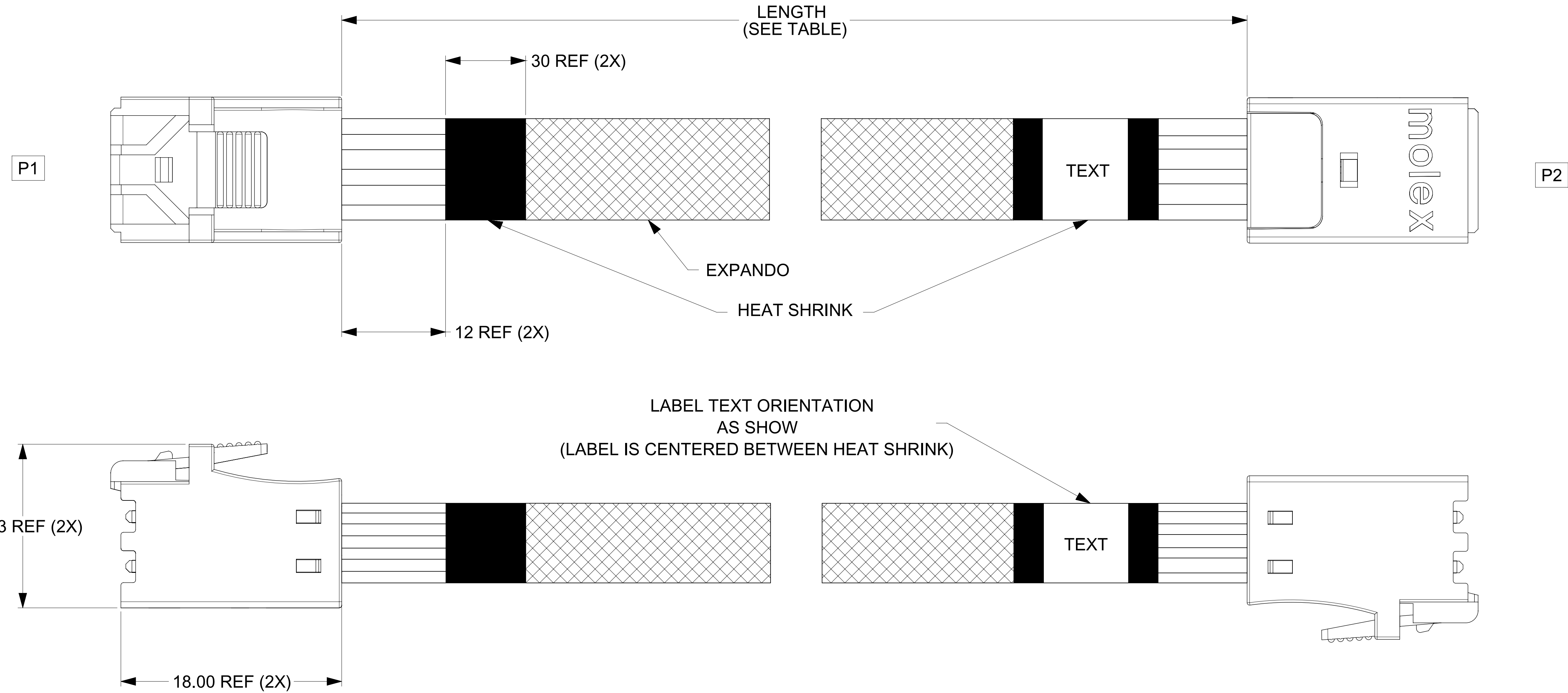
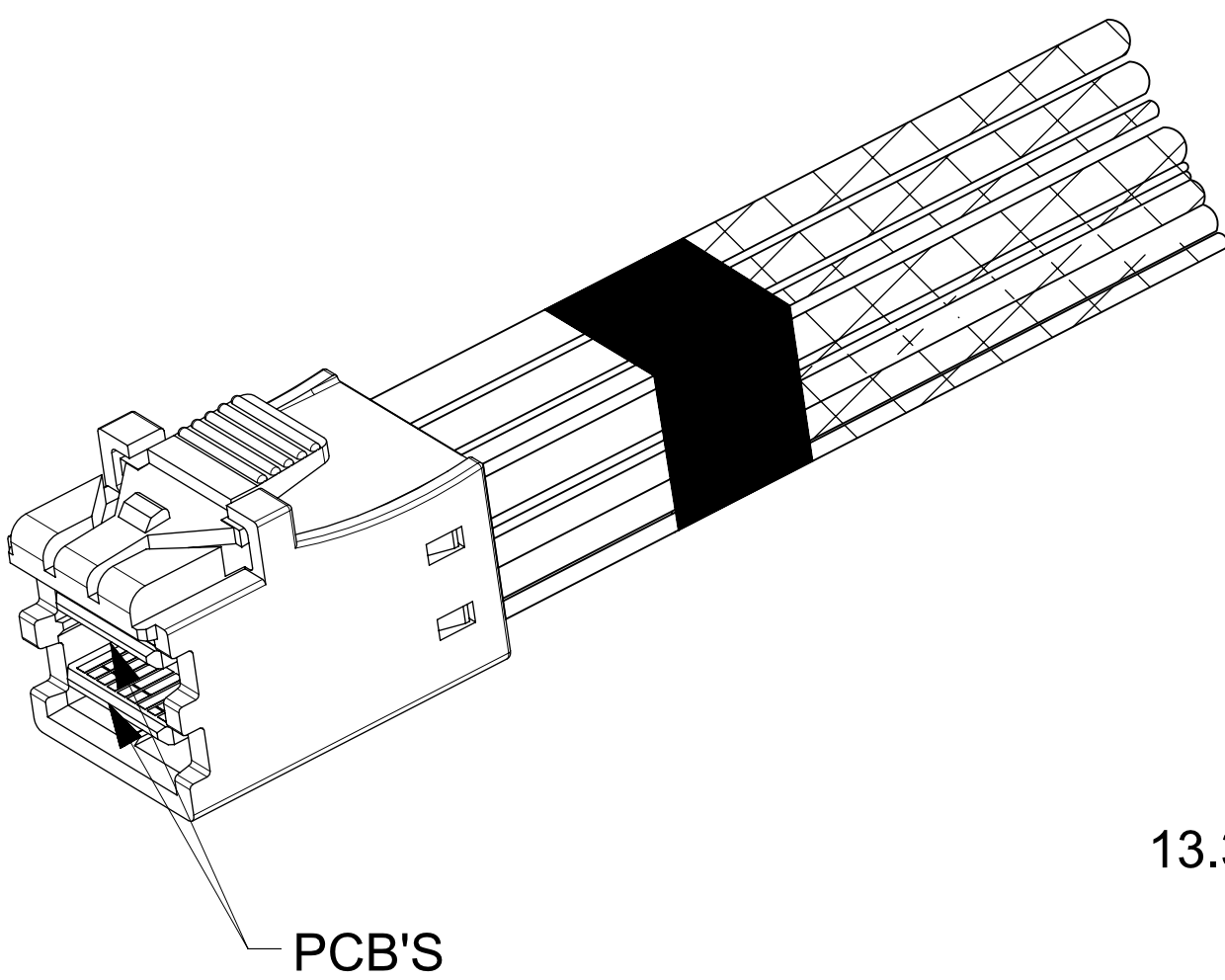




- NOTES:
- MATERIAL:
 - HOUSING - 30% GLASS FILLED NYLON, UL94-V0
 - LATCH - MOLDED INTO HOUSING
 - EXPANDO - PET
 - CABLE - TWIN-AX SHIELD: ALUMNINIZED POLYESTER FOIL
 - SIGNAL AND DRAIN: SOLID COPPER
 - PCB - FR4 (HALOGEN FREE)
 - THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND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

MOLEX P/N	AWG	LENGTH (mm)	TOLERANCE (+-mm)	DESCRIPTION	PINOUT
1001890102	30	500	10	CTRL TO BP	1
1001890104	30	1000	15	CTRL TO BP	1
1001890200	30	152	10	CTRL TO CTRL	2
1001890202	30	500	10	CTRL TO CTRL	2
1001890151	30	500	10	PCIE	3

FUNCTIONAL SYMBOLS F A = 0 F C = 0

F

P

DIVISIONAL SYMBOLS

PINOUT 1

C O N T R O L L E R	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	

B
A
C
K
P
L
A
N
E

PINOUT 2

C O N T R O L L E R	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	
C O N T R O L L E R					C O N T R O L L E R

PINOUT 3

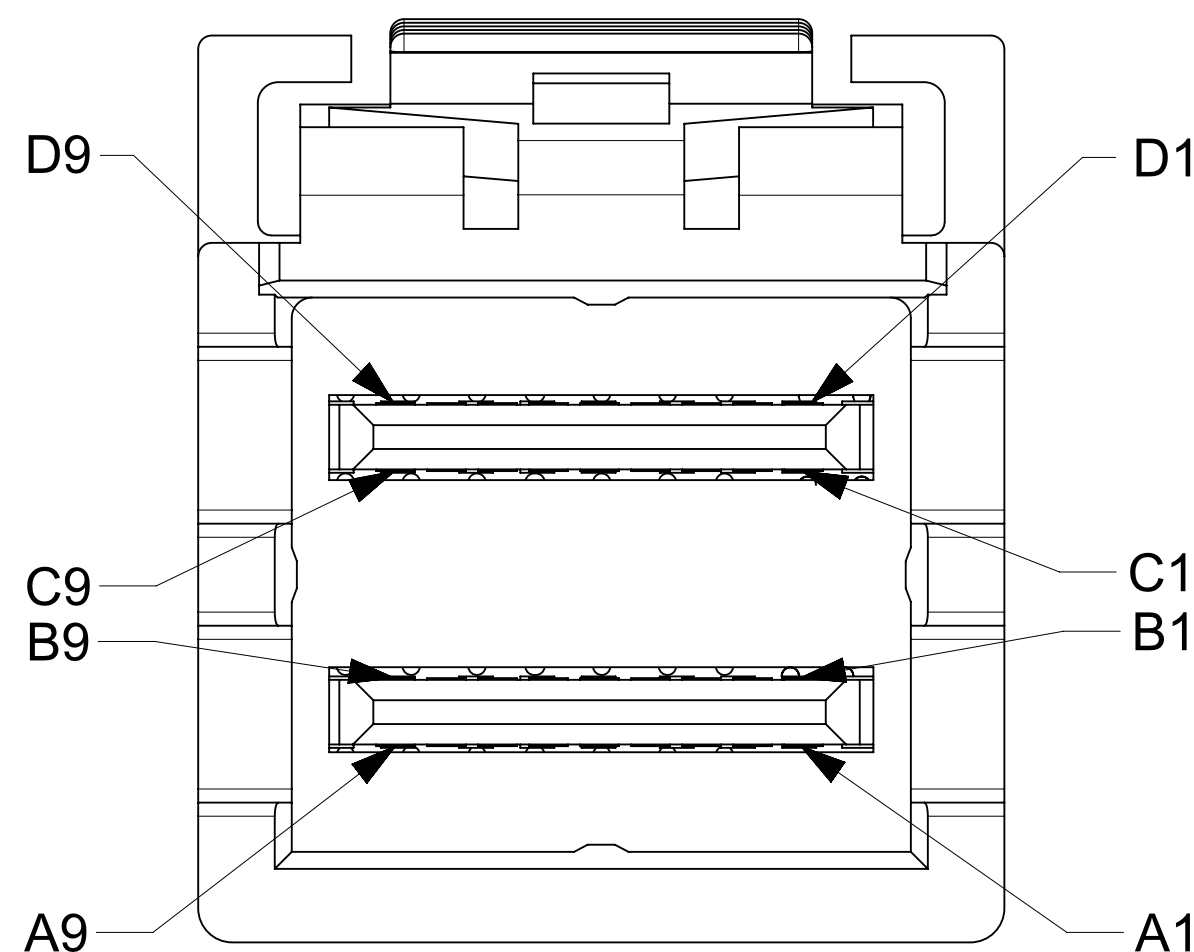
P C I E	P1			P2	
	GND	D9	N/C	B9	GND
	TX2-	D8	—————>	B8	RX2-
	TX2+	D7	—————>	B7	RX2+
	GND	D6	—————	B6	GND
	TX0-	D5	—————>	B5	RX0-
	TX0+	D4	—————>	B4	RX0+
	GND	D3	—————	B3	GND
	SB6	D2	—————	D1	SB6
	SB5	D1	—————	D2	SB5
	WAKEn	C1	—————	C2	CWAKEn
	RSTn	C2	—————	C1	CPERSTn
	GND	C3	—————	A6	GND
	TX1+	C4	—————>	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:

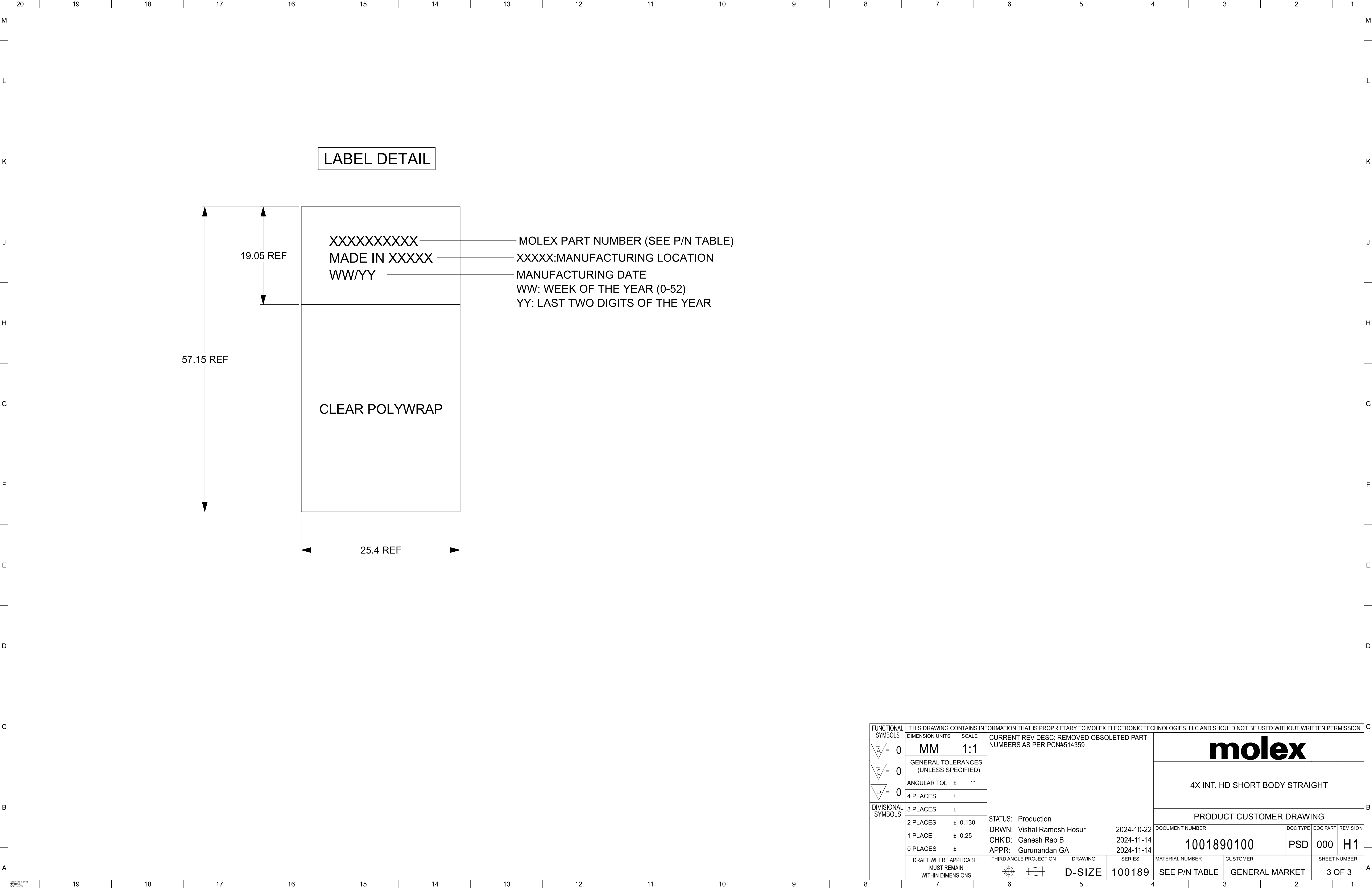
———— = GROUND LINES

----- = THRU LINES

————> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS



FUNCTIONAL SYMBOLS F A = 0 F C = 0 F E = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
	DIMENSION UNITS		SCALE		CURRENT REV/DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514359			molex 4X INT. HD SHORT BODY STRAIGHT					
	MM		20:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)												
	ANGULAR TOL		± 1°										
	4 PLACES		±										
	3 PLACES		±										
	2 PLACES		± 0.130										
	1 PLACE		± 0.25										
	0 PLACES		±										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				D-SIZE		100189		SEE P/N TABLE		GENERAL MARKET		2 OF 3	



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
FUNCTIONAL SYMBOLS FA = 0 FC = 0 FP = 0 DIVISIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#514359											
		MM		1:1													
		GENERAL TOLERANCES (UNLESS SPECIFIED)															
		ANGULAR TOL		± 1°													
4 PLACES		±															
		3 PLACES		±		STATUS: Production DRWN: Vishal Ramesh Hosur 2024-10-22 CHK'D: Ganesh Rao B 2024-11-14 APPR: Gurunandan GA 2024-11-14											
		2 PLACES		± 0.130													
		1 PLACE		± 0.25													
		0 PLACES		±													
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										THIRD ANGLE PROJECTION		DRAWING		SERIES	
						D-SIZE		100189		1001890100		PSD		000		H1	
										MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
										SEE P/N TABLE		GENERAL MARKET		3 OF 3			

molex

4X INT. HD SHORT BODY STRAIGHT

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
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1001890100

PSD

000

H1

SEE P/N TABLE	GENERAL MARKET	3 OF 3
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