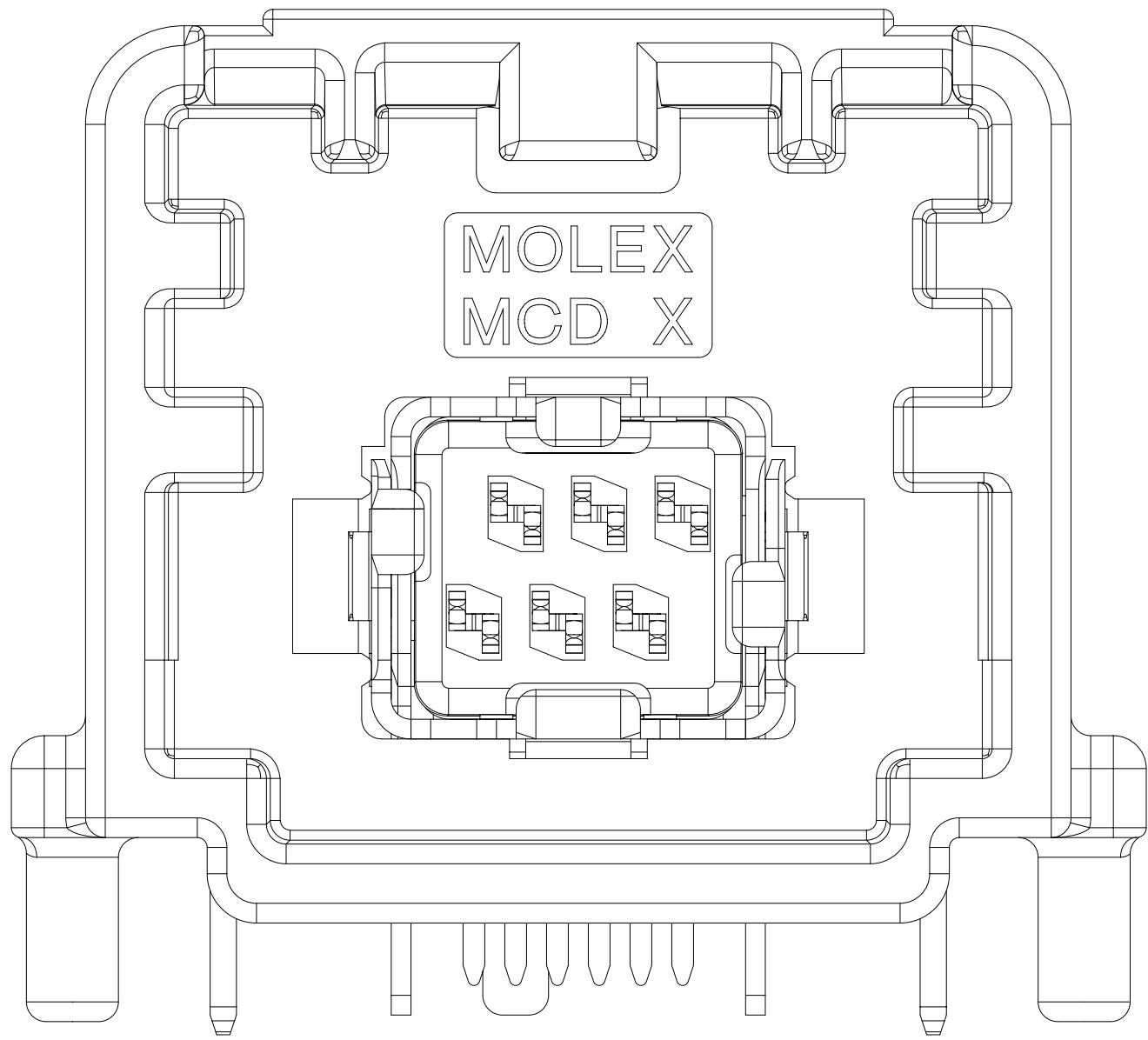




KEY OPTION - A
COLOR - BLACK

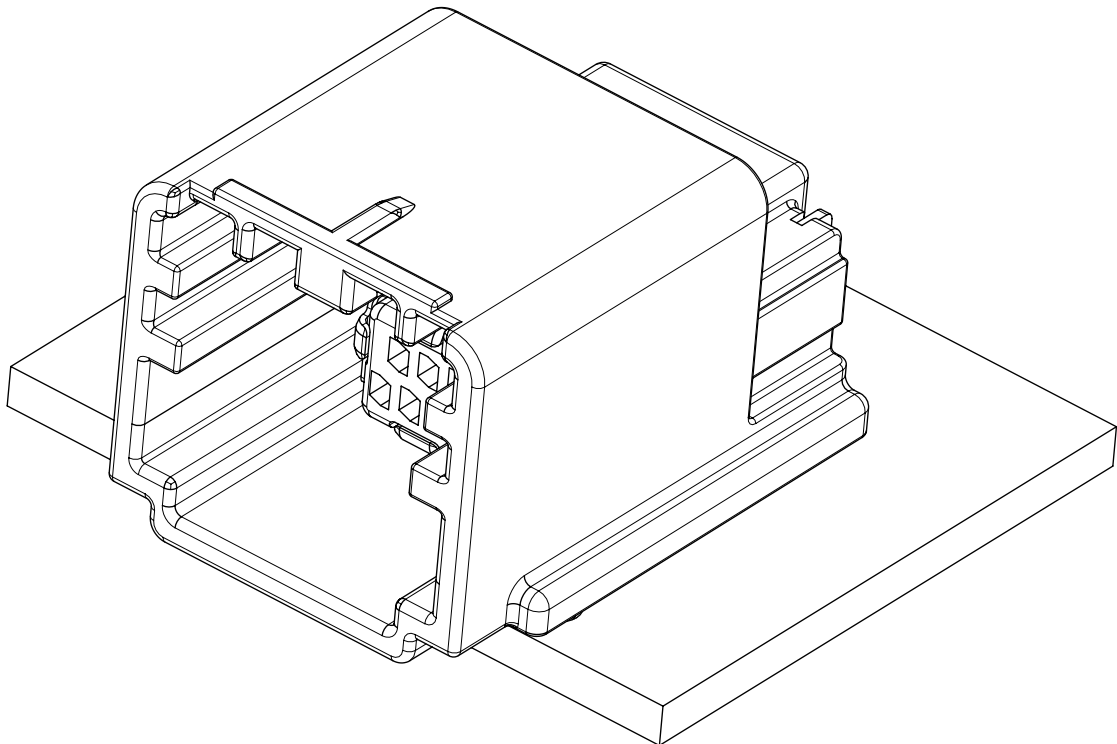
NOTES:

- GENERAL:
 - APPLICATION SPECIFICATION SEE: AS-111149-002
 - A1

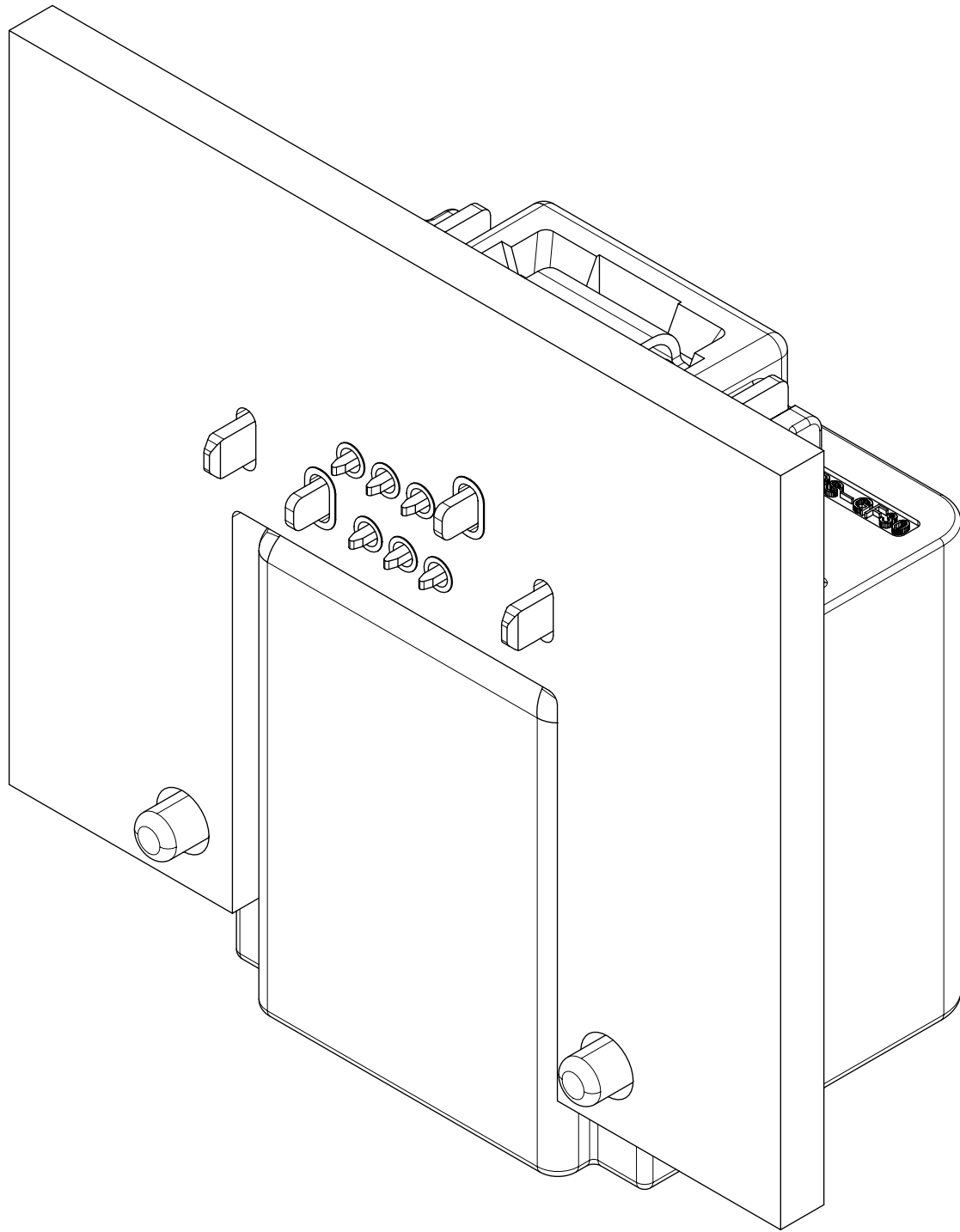
PRODUCT SPECIFICATION SEE: 2257721200.
 - PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31302-334
 - PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-300
 - DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
 - PCB TO BE FR4 .062" (1.57mm) THICK
 - MATING CONNECTOR MINIMUM CLEARANCE: REGION TO REMAIN CLEAR OF MODULE COMPONENTS, ADHESIVE, DEBRIS, ETC.

- DESIGN - MATERIALS:
 - HEADER HOUSING - SPS GF30%
 - TERMINALS - COPPER ALLOY
OVERMOLDING - LCP GF30%
MATE-SIDE PLATING: SELECTIVE GOLD OVER NICKEL
PCB-SIDE PLATING: TIN OVER NICKEL
 - BISCUIT HOUSING - SPS GF30%
 - SHIELDS - COPPER ALLOY
PLATING (OVERALL): TIN OVER NICKEL

- DESIGN - GEOMETRY:
 - GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
 - EDGES AND UNDIMENSIONED DETAILS PER ISO13715
 - CORNERS SHOWN AS SHARP TO BE R0.2 MAX.
- LASER MARKING TO BE MARKED WITH:
HUMAN READABLE CODE (HRC)
-PERMANENTLY APPLIED ON THE PART WITH 1.5mm LETTER SIZE
5DIGIT JULIAN MANUFACTURING DATE STAMP YYDDD



6 CKT UNSEALED RIGHT ANGLE HEADER ASSEMBLY



PART NUMBER	POLARIZATION	TERMINAL	DESCRIPTION
2257701015	KEY A	6CKT (3X2)	HSAL2-RA-THRU-UNSEALED-KEY A-6CKT

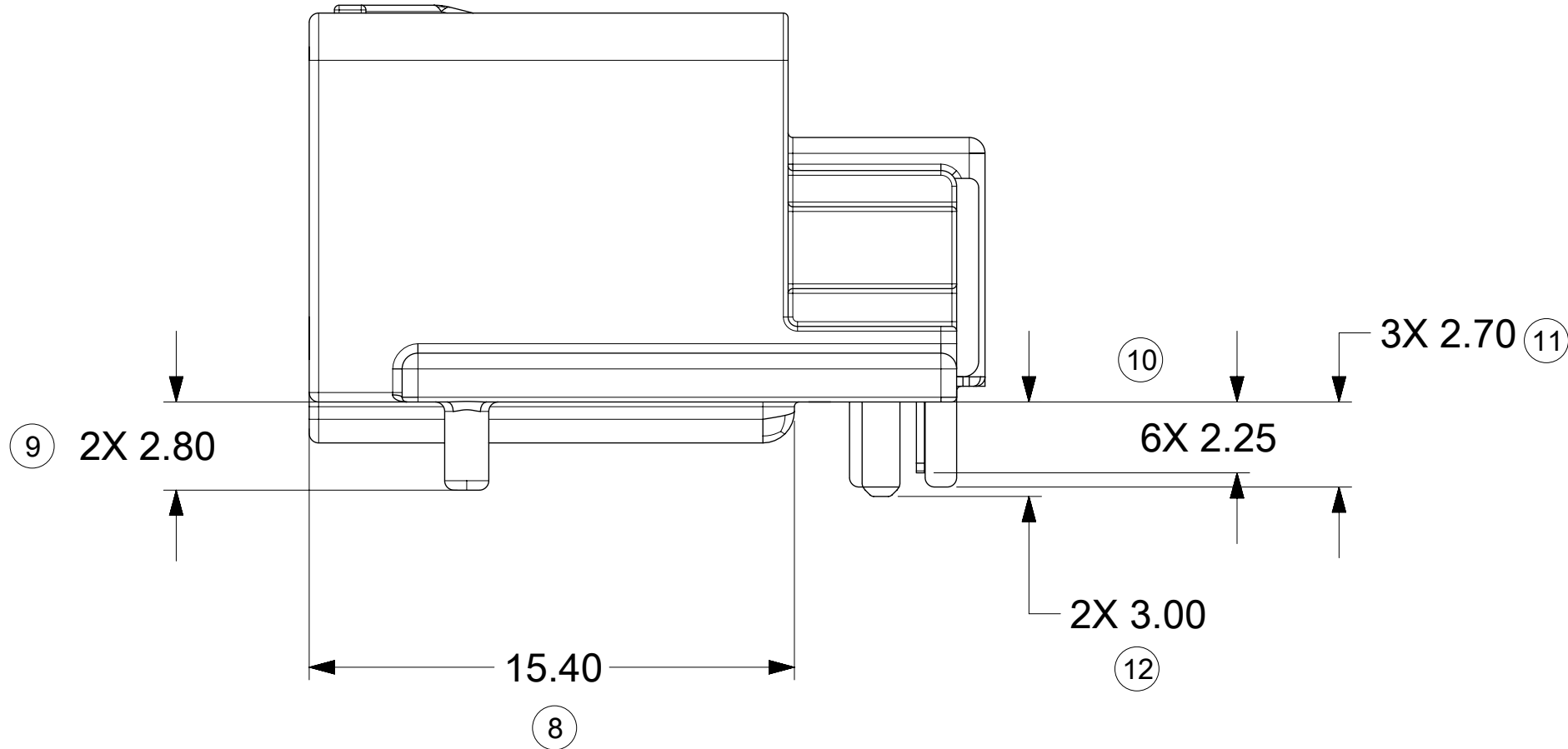
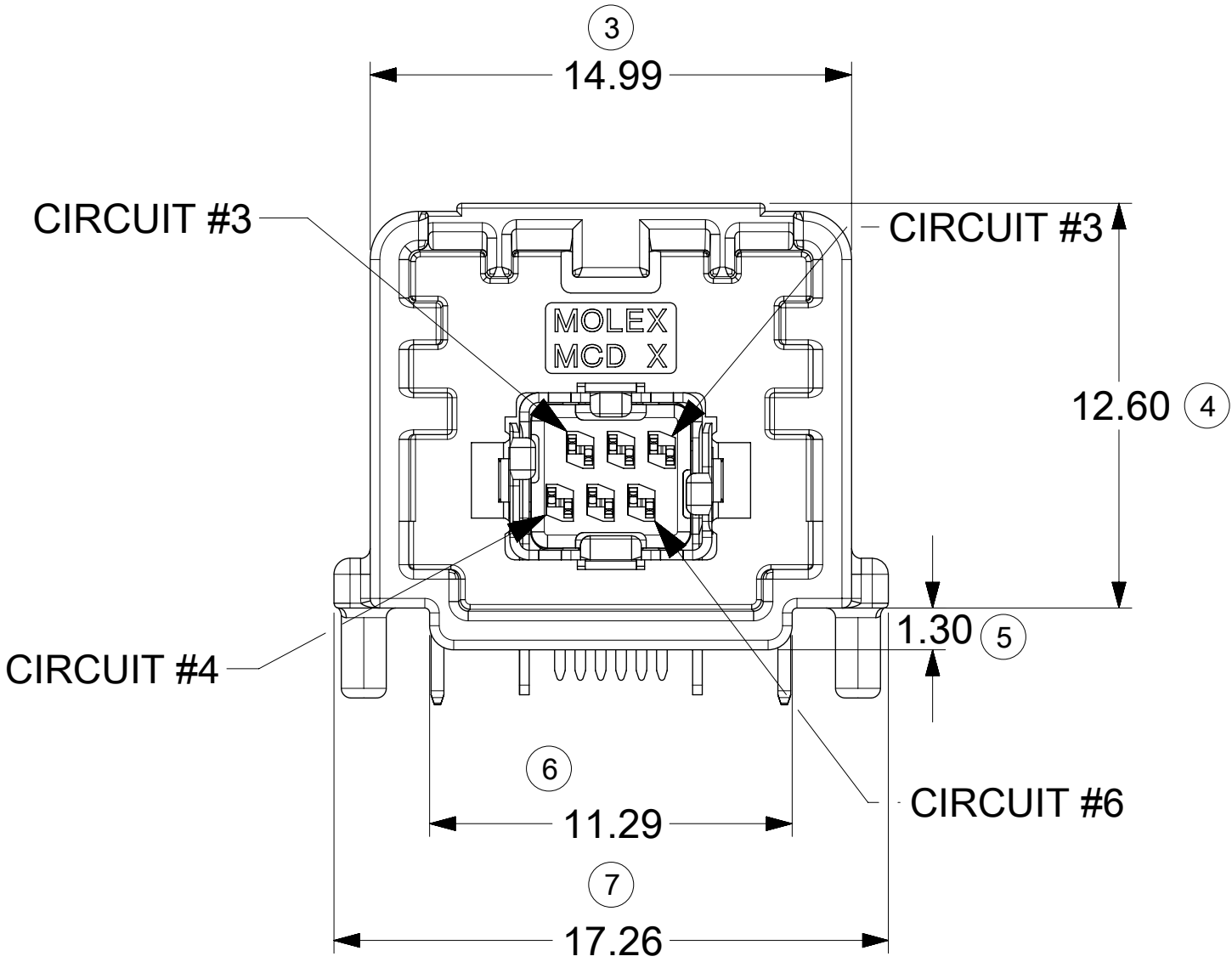
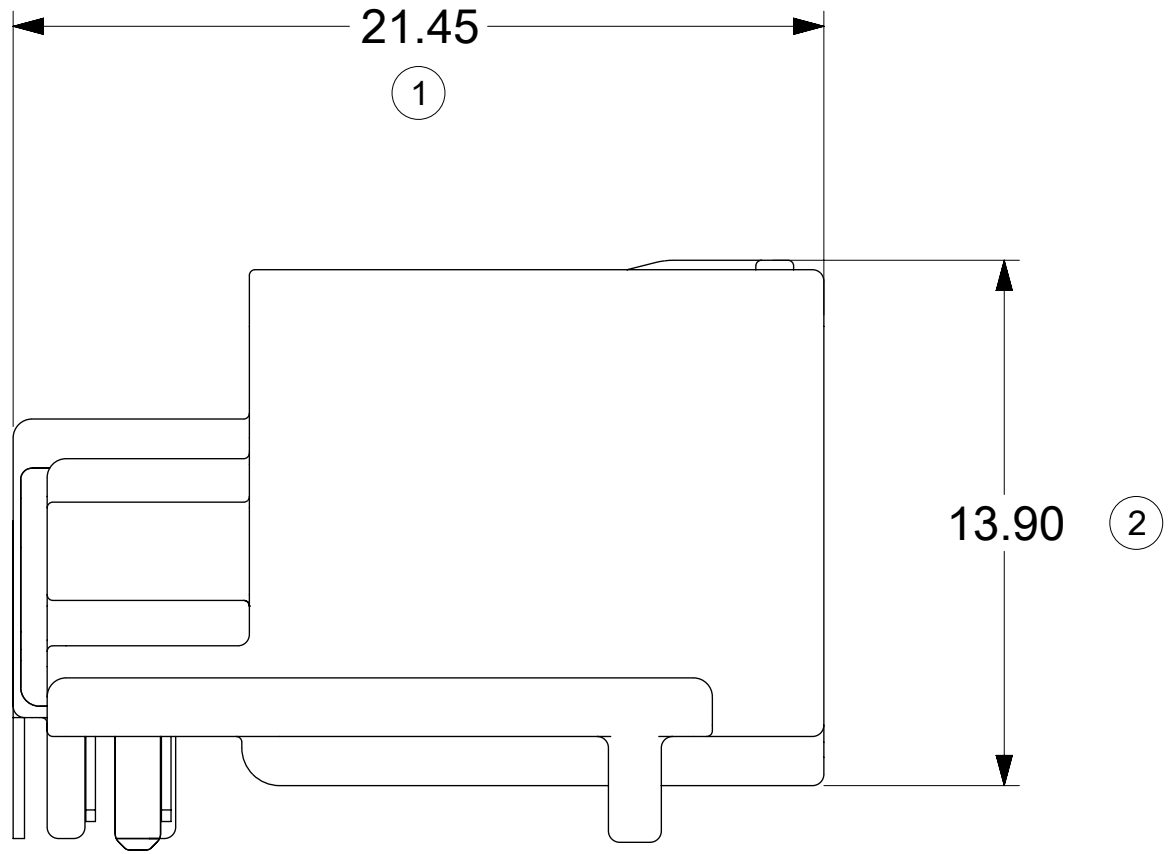
A1	UPDATED PS SPEC PN TO 2257721200 WAS PS-34861-001.	MANISH TIWARI	09SEP2024
A	INITIAL RELEASE	PRAVEEN KUMAR	22SEP2023
REV	DESCRIPTION	ENGINEER	DATE

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:				molex									
mm		4:1															
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 797536 DRWN: KMANISHTIWAR 2024/09/09 CHK'D: SUBHAP2 2024/09/09 APPR: ADITHS1 2024/09/09 INITIAL REVISION: DRWN: PRAVEC2 2024/02/09 APPR: TSWAROOPNUNE 2024/03/06				HSAL2-RA-THRU-UNSEAL-ALL KEYS-6CKT RIGHT ANGLE UNSEALED HEADER ASEMBLY									
ANGULAR TOL ± 1.0°								PRODUCT CUSTOMER DRAWING									
4 PLACES		±						DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION	
3 PLACES		±						2257701015				PSD		000		A1	
2 PLACES		± 0.13															
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		225770		SEE TABLE		GENERAL MARKET		1 OF 4	

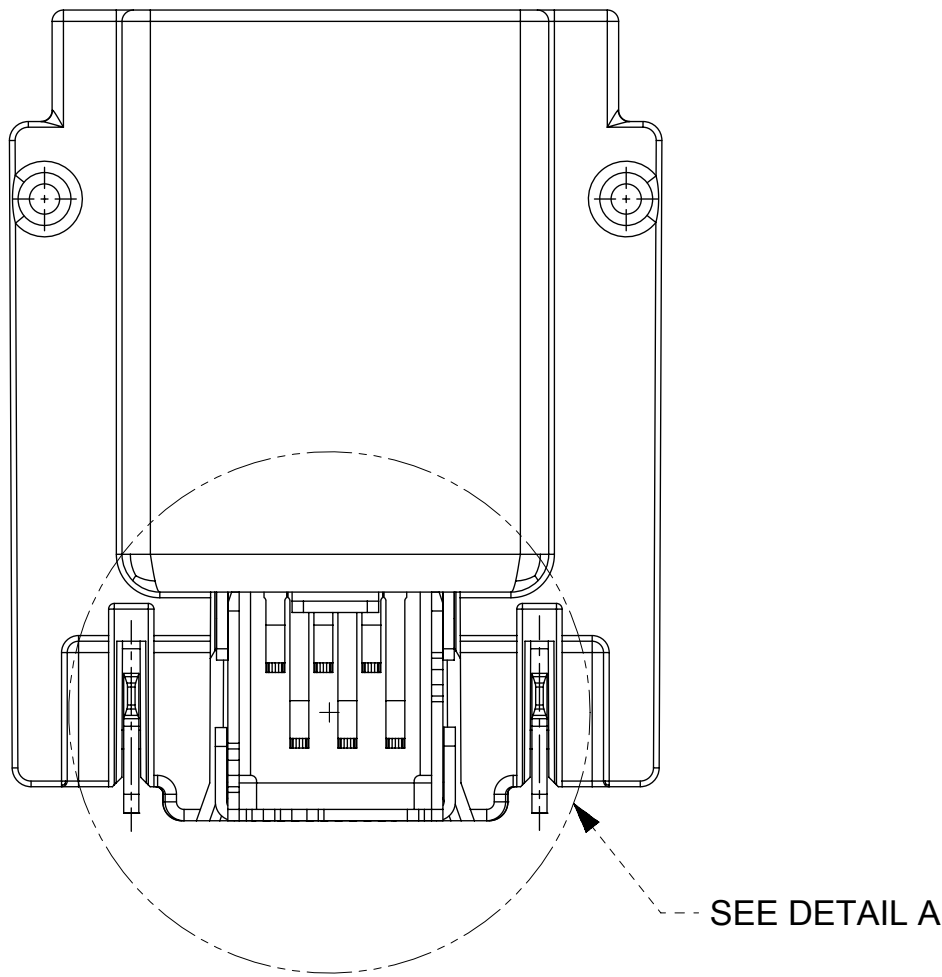
DOCUMENT STATUS	P1	RELEASE DATE	2024/09/09	12:15:20
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SHEET DESCRIPTION

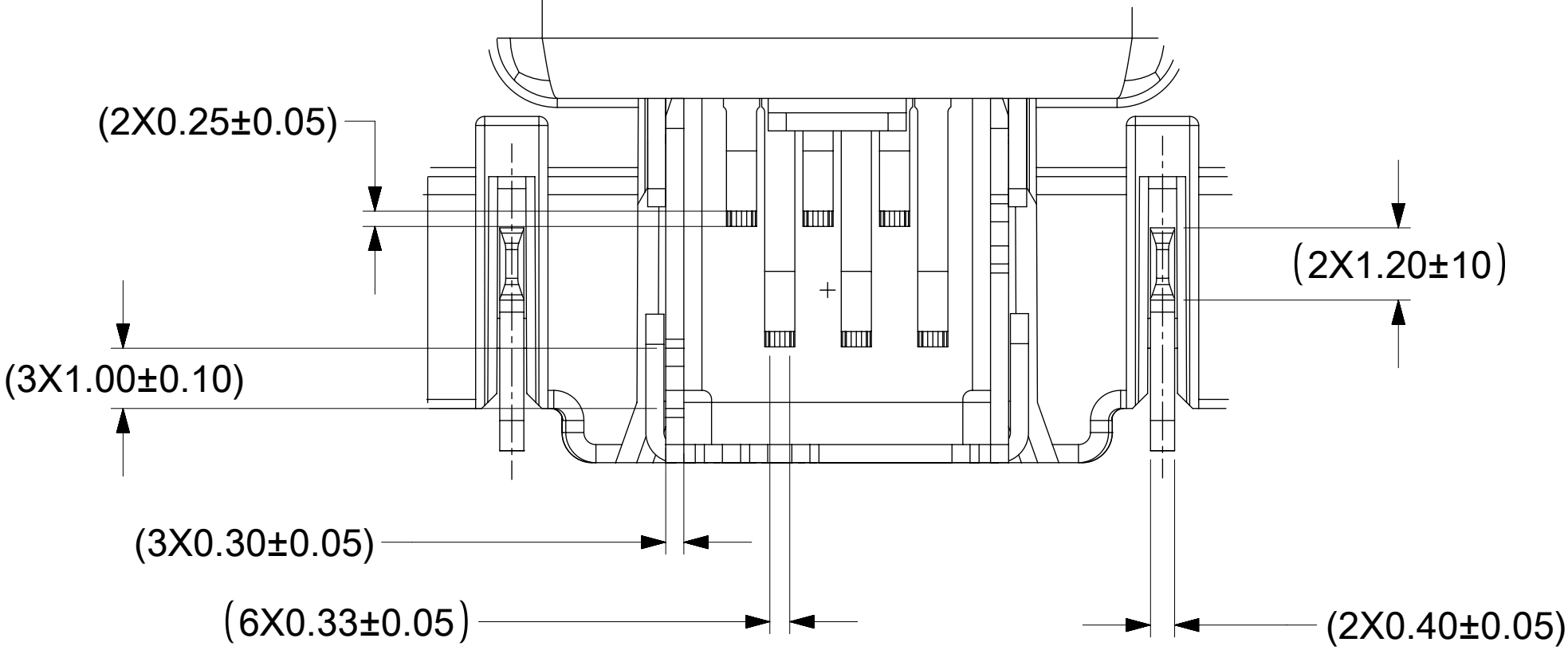
CONNECTOR & PCB INTERFACE



STANDARD VERSION



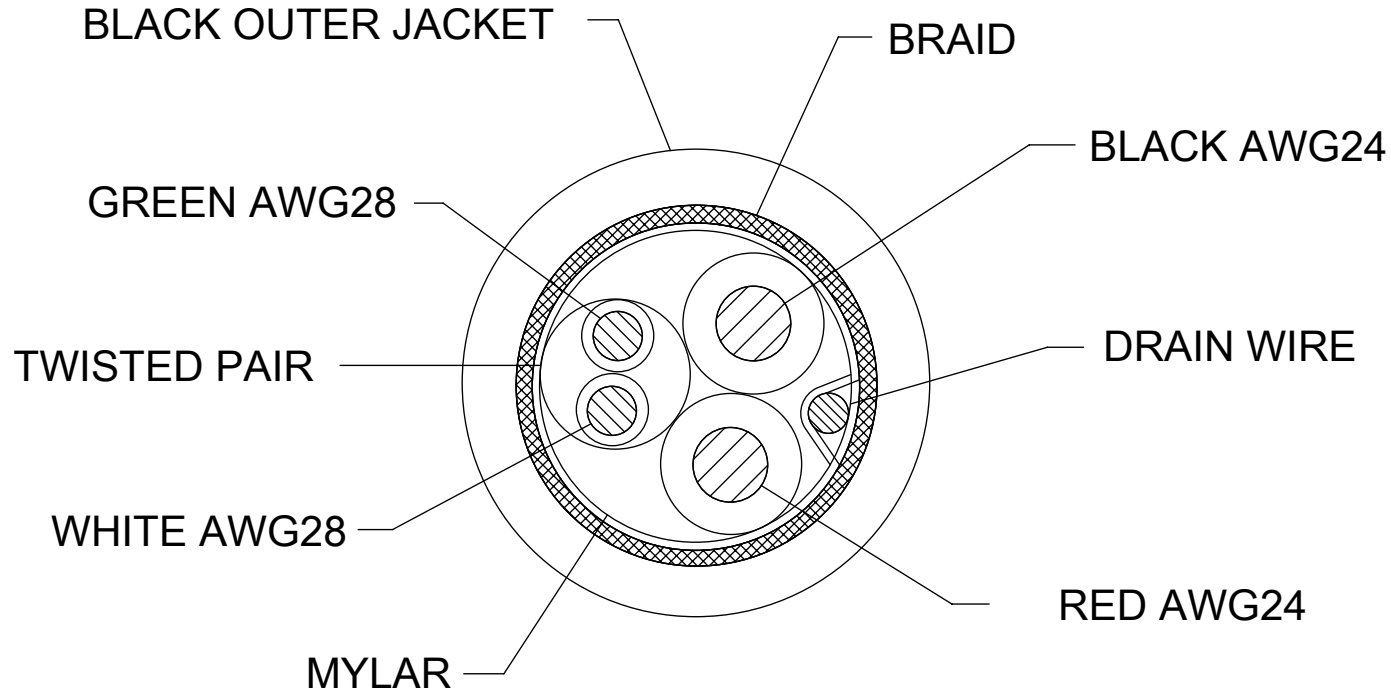
SOLDER TAILS SIZE
FOR REFERENCE ONLY



DETAIL A
SCALE 10:1

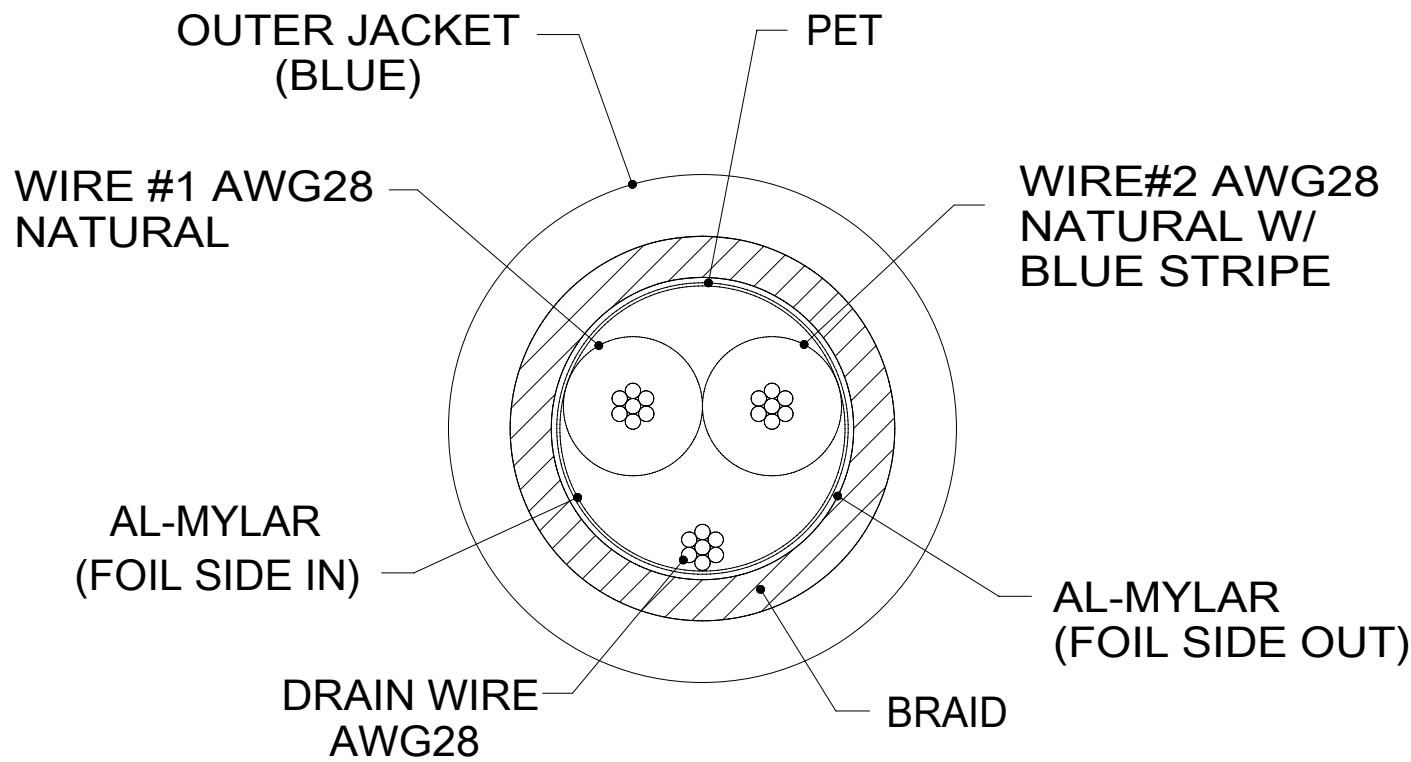
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex							
mm		5:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				HSAL2-RA-THRU-UNSEAL-ALL KEYS-6CKT RIGHT ANGLE UNSEALED HEADER ASSEMBLY											
ANGULAR TOL ± 1.0°															
4 PLACES		±								EC NO: 797536		DRWN: KMANISHTIWAR		2024/09/09	
3 PLACES		±								CHK'D: SUBHAP2		2024/09/09			
2 PLACES		± 0.13								APPR: ADITHS1		2024/09/09			
1 PLACE		± 0.25								INITIAL REVISION:					
0 PLACES		±		DRWN: PRAVEC2		2024/02/09		DOCUMENT NUMBER							
				APPR: TSWAROOPNUNE		2024/03/06		2257701015		DOC TYPE	DOC PART	REVISION			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				 		D-SIZE		225770		SEE TABLE		GENERAL MARKET		2 OF 4	

SHEET DESCRIPTION
STANDARD WIRING DIAGRAM



CABLE CONSTRUCTION
USB 2.0 AWG 28/24

WIRING DIAGRAM FOR USB 2.0 CABLE					
6CKT (END 1)			6CKT (END 2)		
SIGNAL NAME	CONTACT	WIRE COLORS	WIRE COLORS	CONTACT	SIGNAL NAME
NO CONNECT	1	--	--	1	NO CONNECT
D+	2	GREEN	GREEN	2	D+
D-	3	WHITE	WHITE	3	D-
VBUS	4	RED	RED	4	VBUS
NO CONNECT	5	--	--	5	NO CONNECT
GND	6	BLACK	BLACK	6	GND
CABLE BRAID	SHIELD	BRAID TO SHIELD		SHIELD	CABLE BRAID



CABLE CONSTRUCTION
2-WIRE LVDS

WIRING DIAGRAM FOR LVDS 2-WIRE CABLE					
6CKT (END 1)			6CKT (END 2)		
SIGNAL NAME	CONTACT	WIRE COLORS	WIRE COLORS	CONTACT	SIGNAL NAME
PAIR DRAIN	1	DRAIN	DRAIN	1	PAIR DRAIN
TPA +	2	NATURAL W/ BLUE STRIPE	NATURAL W/ BLUE STRIPE	2	TPA +
TPA -	3	NATURAL	NATURAL	3	TPA -
NO CONNECT	4	--	--	4	NO CONNECT
NO CONNECT	5	--	--	5	NO CONNECT
NO CONNECT	6	--	--	6	NO CONNECT
CABLE BRAID	SHIELD	BRAID TO SHIELD		SHIELD	CABLE BRAID

NOTES :

1. WIRING DIAGRAMS ARE STANDARD AS SHOWN AND CANNOT BE CUSTOMIZED.
2. HEADERS AND PCB'S NEED TO BE PINNED OUT ACCORDING TO THE STANDARD WIRING DIAGRAM TO WORK WITH MATING CABLES ASSEMBLIES.
3. 6CKT HEADER WILL MATE ONLY WITH 6CKT CABLE ASSEMBLY SERIES 225772121X AND 225772421X.

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DIMENSION UNITS	SCALE	CURRENT REV DESC:			
mm	1:1				
GENERAL TOLERANCES (UNLESS SPECIFIED)					
ANGULAR TOL	± 1.0 °				
4 PLACES	±	EC NO: 797536 DRWN: KMANISHTIWAR 2024/09/09 CHK'D: SUBHAP2 2024/09/09 APPR: ADITHS1 2024/09/09			
3 PLACES	±				
2 PLACES	± 0.13				
1 PLACE	± 0.25	INITIAL REVISION: DRWN: PRAVEC2 2024/02/09 APPR: TSWAROOPNUNE 2024/03/06			
0 PLACES	±				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING		
			D-SIZE		
		SERIES	225770		

HSAL2-RA-THRU-UNSEAL-ALL KEYS-6CKT
RIGHT ANGLE UNSEALED HEADER ASSEMBLY

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2257701015	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	GENERAL MARKET	4 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2024/09/09	12:15:20
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