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8	BACKSHELL CONFIGURATIONS

NOTES: VALID UNLESS OTHERWISE SPECIFIED

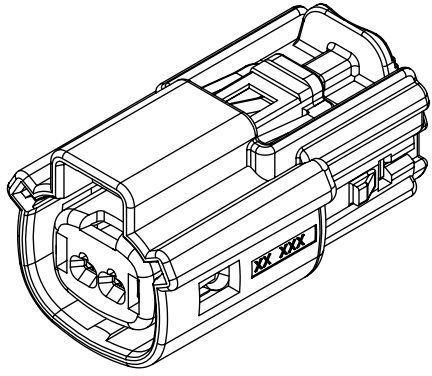
1. GENERAL:
a. APPLICATION SPECIFICATION SEE: AS-33472-100
-CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
-DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS SPECIFIED IN THE MATING INTERFACE/CONNECTOR DRAWINGS CHART.
*DENOTES DRAWINGS THAT CAN BE ACCESSED AT <http://ewcap.uscarteams.org/>.
-ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION (SEE PLR PRE-LOCK VIEW SHEET 5).
- b. PRODUCT SPECIFICATION SEE:
-STANDARD CONFIGURATION: PS-33471-000
-UL V0 CONFIGURATION: PS-160105-0001
CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), TERMINALS, WIRE DIAMETER RANGE, PRODUCT VALIDATION, AND PRODUCT DEVIATIONS.
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE PACKAGING CHART
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:
a. FOR BILL OF MATERIALS SEE:
-STANDARD CONFIGURATION TBD
-UL V0 CONFIGURATION SD-160105-0002

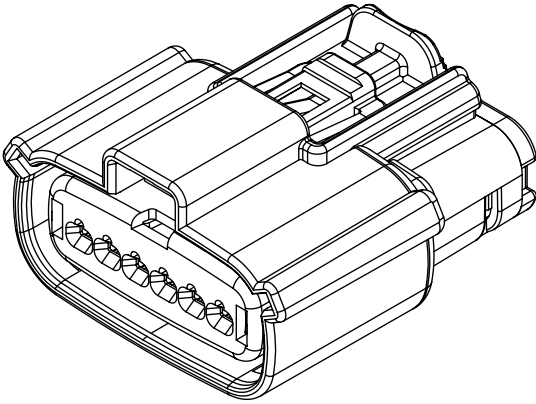
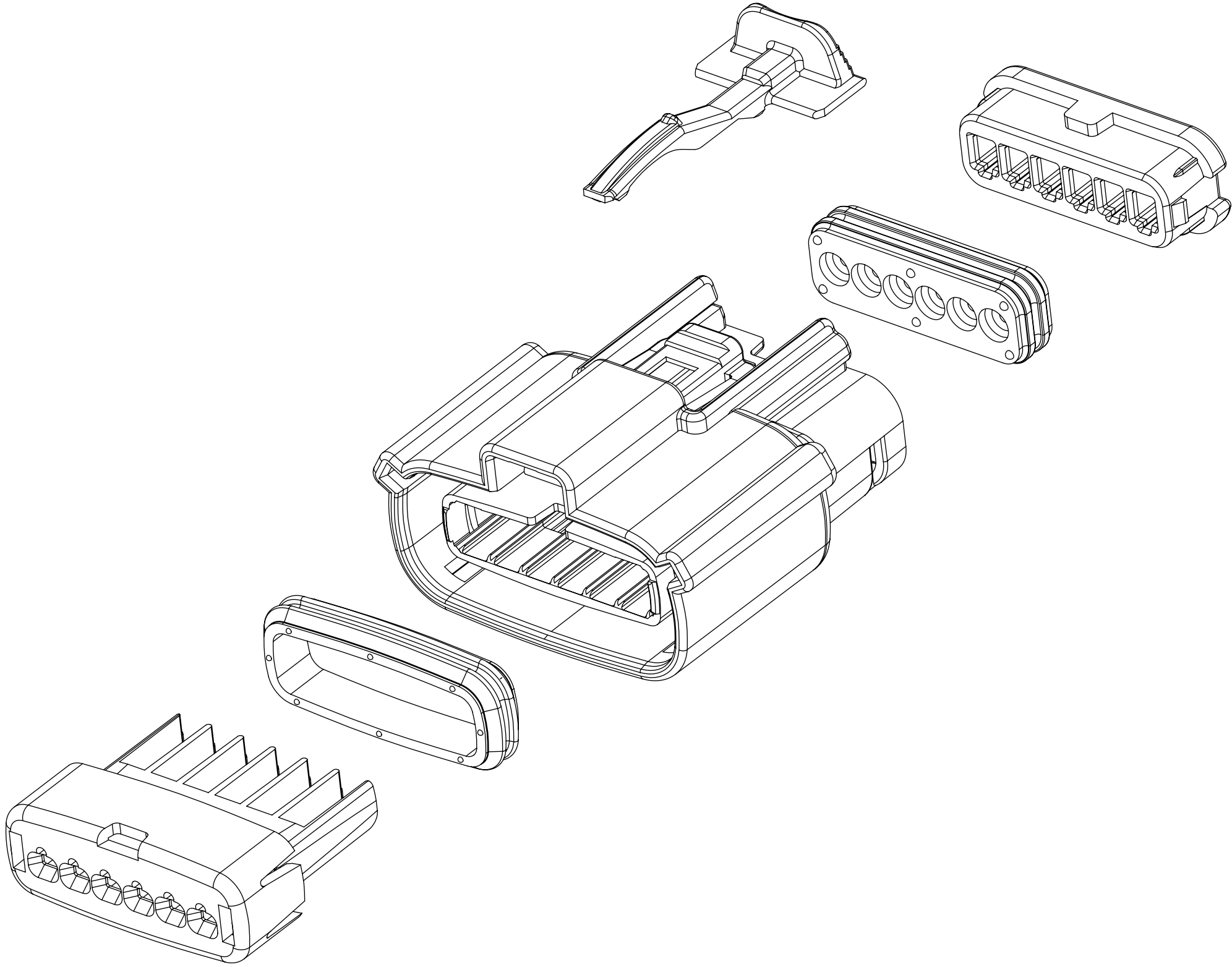
3. DESIGN - GEOMETRY:
a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD.
THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
- f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
- g. LASER MARKING:
1. PART NUMBER
2. DAY OF THE YEAR
3. SHIFT
4. YEAR
FOR ADDITIONAL INFORMATION SEE SECTION 5 UNDER PROCEDURES IN ES-34735-008.

PACKAGING	
DESCRIPTION	DRAWING NO.
1X2	PK-31300-635
1X6	PK-31300-903

MATING INTERFACE/CONNECTOR DRAWINGS		
DESCRIPTION	INTERFACE DEFINITION	MOLEX INLINE
1X2	*150-S-002-1-Z05	SD-33481-0001
1X6	*150-S-006-1-Z03	SD-33481-0001



1x2



1x6

INSPECTION NUMBER LOG	A2	CHANGE STANDARD CONFIGURATION TO TBD SEE NOTES 2.a
	A1	UPDATED THE DRAWING FRAME
	A	MINOR GEOMETRY CHANGE FOR UL V0
LAST NUMBER: 11 ADDED: 11 REMOVED:	2	UPDATE VIEWSETS
	1	INITIAL RELEASE
	REV	REV DESCRIPTION

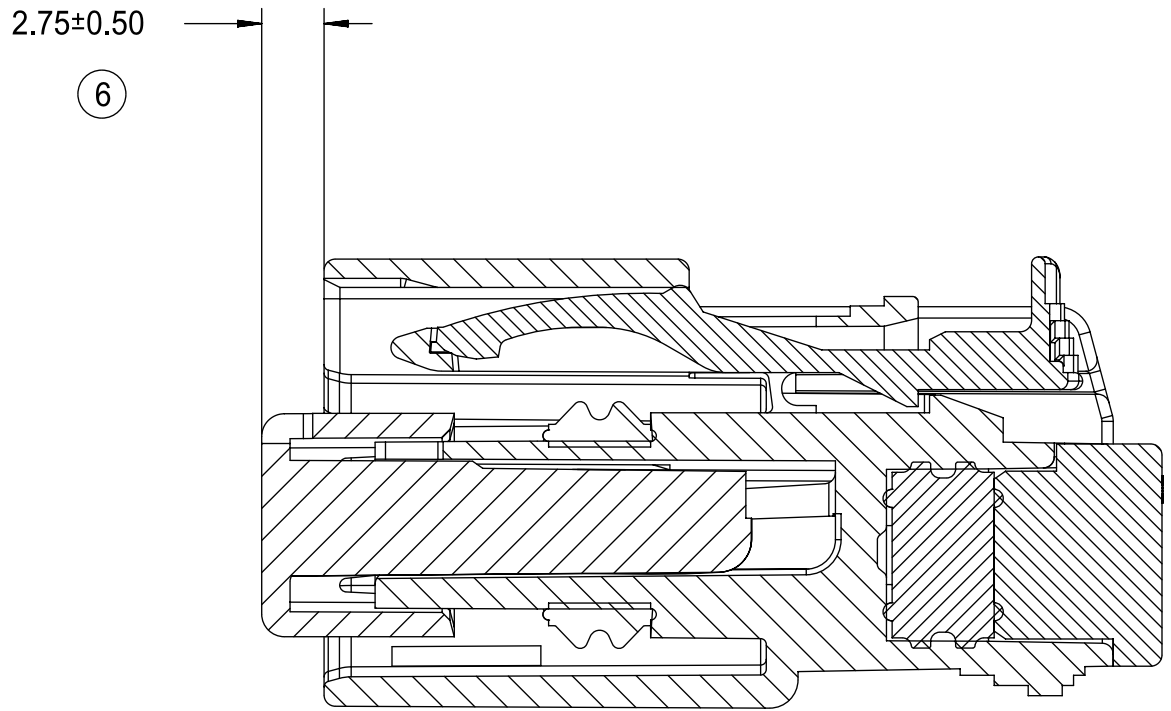
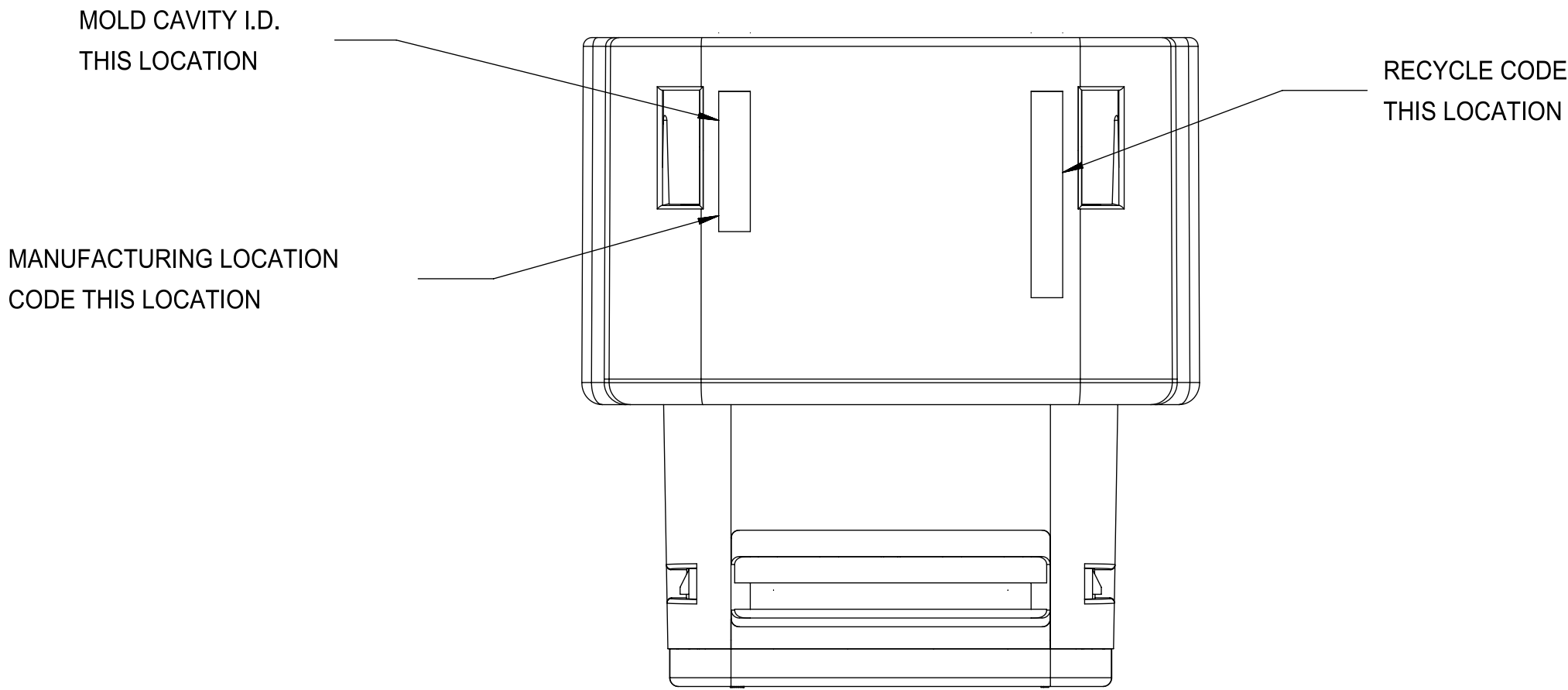
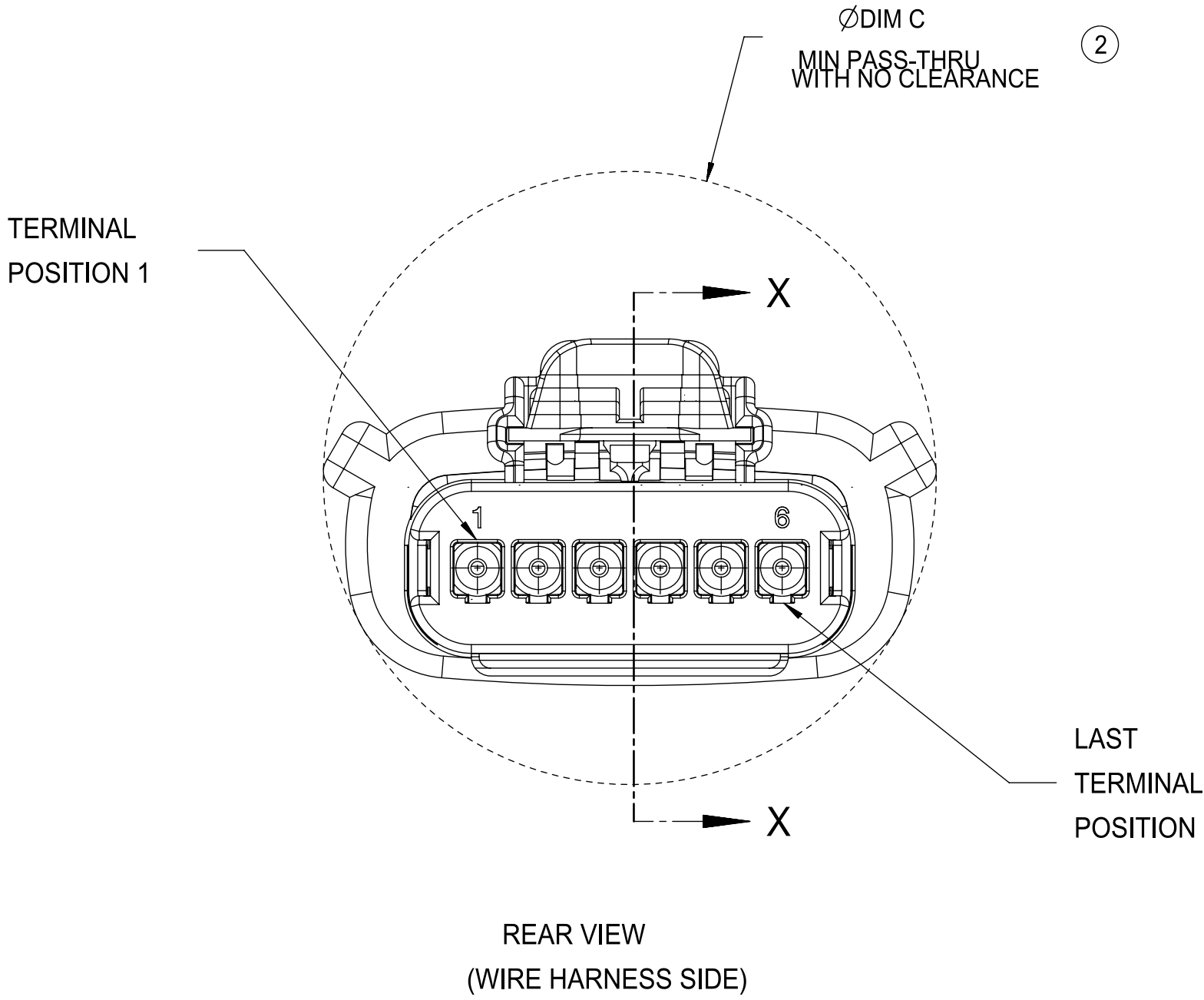
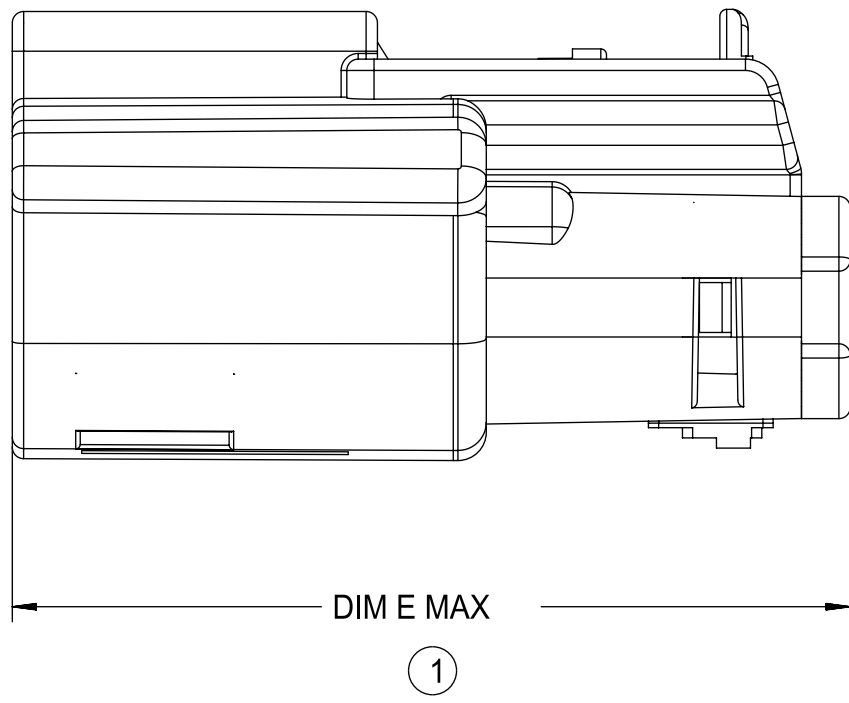
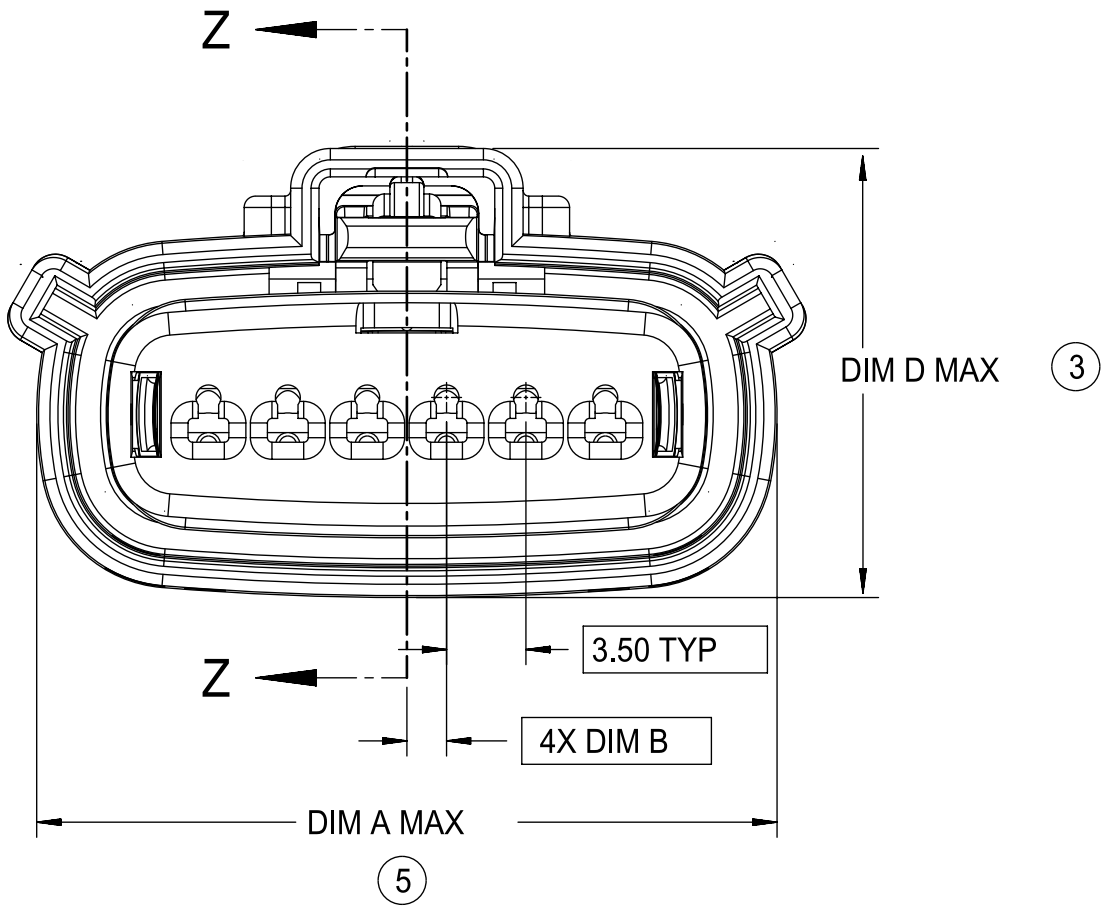
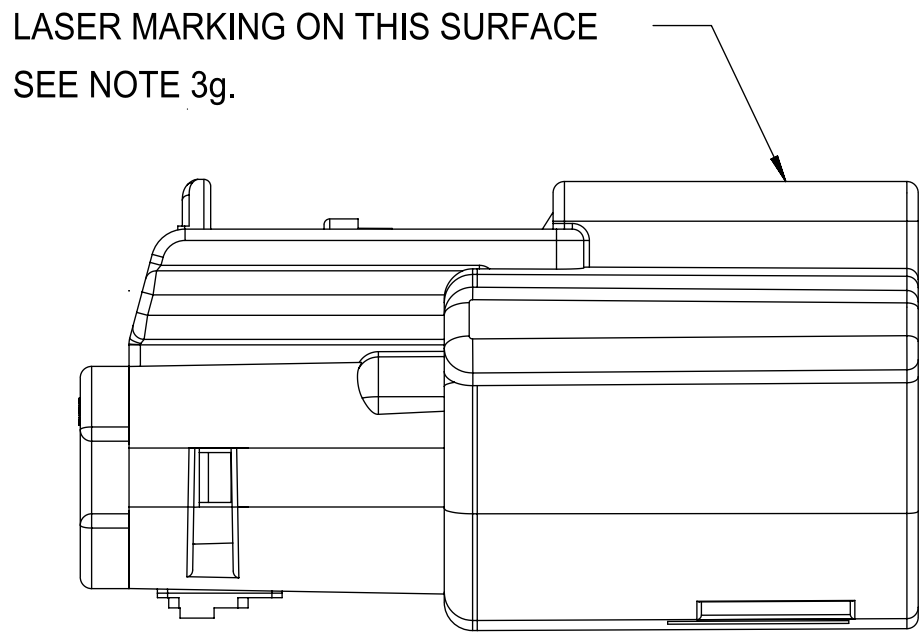
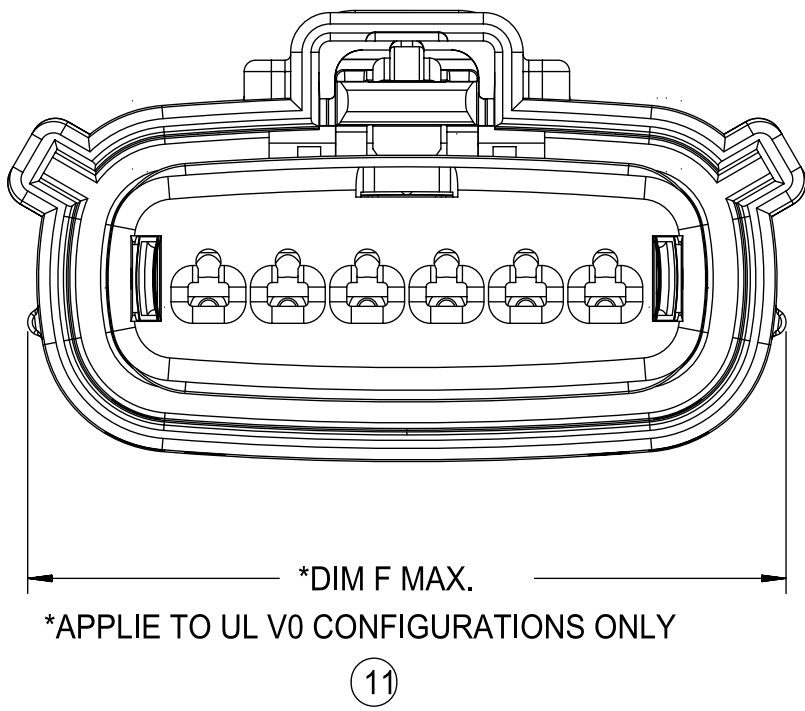
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
##### FA = 0 FC = 0 FP = 0 DIVISIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL							
	MM		1.5:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: CO-000012501 DRWN: Yann Chen 02-Sep-2022 CHK'D: Matt Young 08-May-2024 APPR: Elvis Song 10-May-2024				PRODUCT SALES DRAWING							
	ANGULAR TOL ± 1 °															
	4 PLACES		± 0		INITIAL REVISION: DRWN: RFC_PLMIMP APPR: KDEKOSHI 2016/06/14				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION			
	3 PLACES		± 0						SD-33471-0001		PSD	001	A2			
	2 PLACES		± 0.1						MATERIAL NUMBER				CUSTOMER		SHEET NUMBER	
	1 PLACE		± 0.2													
	0 PLACES		± 0		SEE NOTE 2a		GENERAL MARKET		1 OF 8							
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES							
						D-SIZE		33471								

DOCUMENT STATUS	Production	RELEASE DATE	10-May-2024	07:23:52
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SHEET DESCRIPTION		1X2																	
KEY CONFIGURATIONS																			
<																			

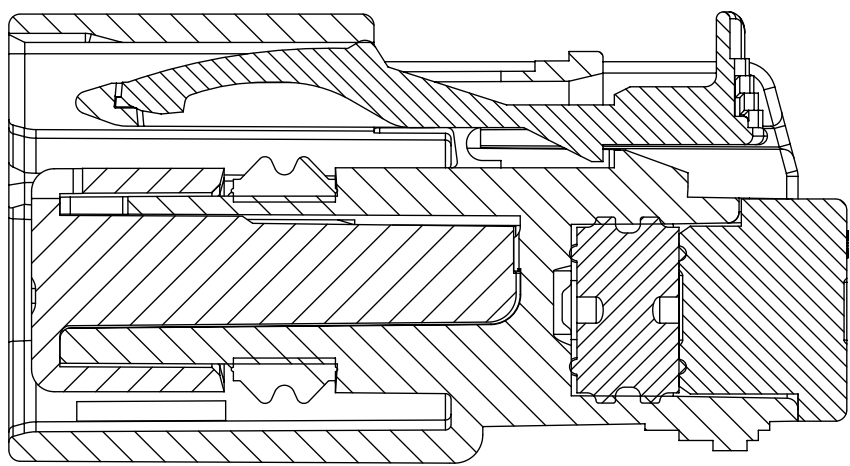
SHEET DESCRIPTION

RECEPTACLE CONNECTOR ASSEMBLY - STD



PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN PRE-STAGED POSITION

SECTION Z-Z



CHARTED DIMENSIONS						
DESCRIPTION	DIMENSIONS					
	A	B	C	D	E	F
1X2	19.40	1.75	21.73	20.55	37.65	19.64
1X6	32.75	1.75	35.21	19.90	37.65	N/A
1X6 UL V0	N/A	1.75	35.23	19.90	37.65	33.64

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##### FA = 0 FC = 0 FP = 0 DIVISIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL							
	MM		3:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: CO-000012501 DRWN: Yann Chen 02-Sep-2022 CHK'D: Matt Young 08-May-2024 APPR: Elvis Song 10-May-2024 INITIAL REVISION: DRWN: RFC_PLMIMP APPR: KDEKOSKI 2016/06/14								PRODUCT SALES DRAWING			
	ANGULAR TOL ± 1°								DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
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	3 PLACES		± 0						SEE NOTE 2a		GENERAL MARKET		SHEET NUMBER 5 OF 8			
	2 PLACES		± 0.1													
	1 PLACE		± 0.2													
	0 PLACES		± 0						MATERIAL NUMBER		CUSTOMER					
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								THIRD ANGLE PROJECTION		DRAWING		SERIES			
				D-SIZE		33471										

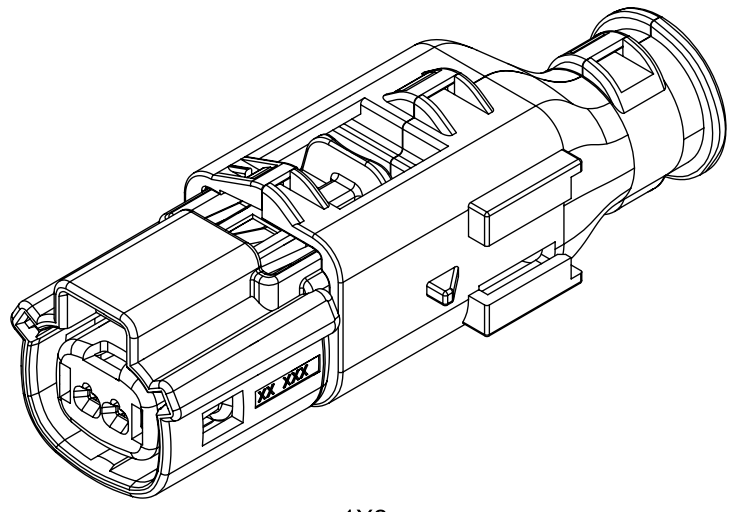
DOCUMENT STATUS	Production	RELEASE DATE	10-May-2024	07:23:52
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SHEET DESCRIPTION

BACKSHELL NOTES

BACKSHELL NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-34951-001
- DESIGNED TO MATE WITH RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-0001.
 - SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
 - COMPONENTS ARE OPTIONAL AND MUST BE PURCHASED SEPERATELY.
 - BACKSHELL DESIGN IS OWNED BY SCHLEMMER.
 - FOR ADDITIONAL INFORMATION SEE THE BACKSHELL COMPONENT DRAWING SD-34949-0001.



1X2

BACKSHELL CUSTOMER
MODEL NUMBER LEGEND

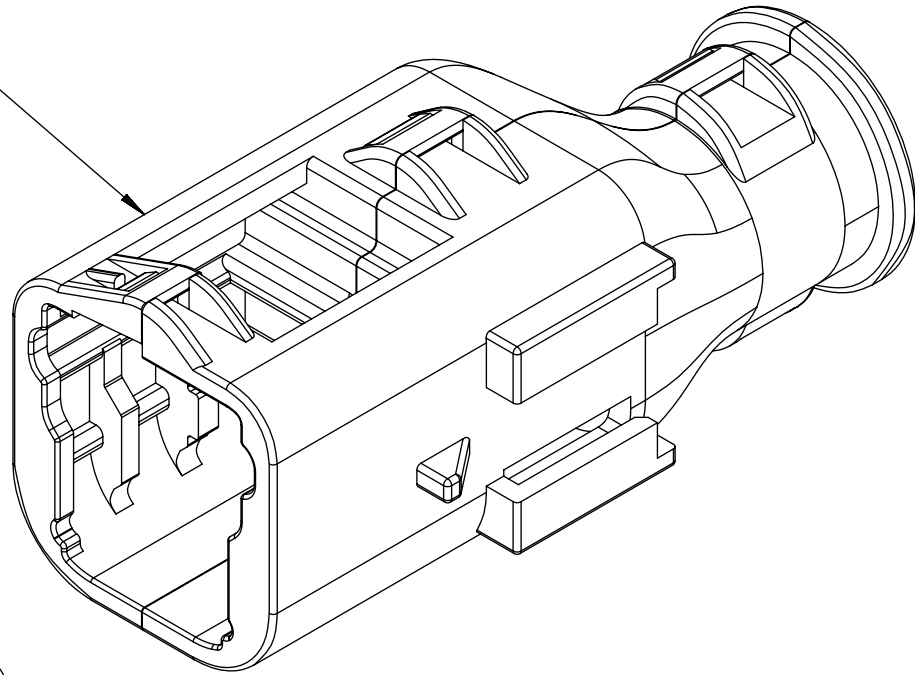
34949-XXXX

- CUSTOMER MODEL COMPONENTS
- 0 - BACKSHELL ONLY
 - 1 - BACKSHELL & MX150 HOUSING KEY A ASSEMBLY
 - 2 - BACKSHELL & MX150 HOUSING KEY B ASSEMBLY
 - 3 - BACKSHELL & MX150 HOUSING KEY C ASSEMBLY
 - 4 - BACKSHELL & MX150 HOUSING KEY D ASSEMBLY

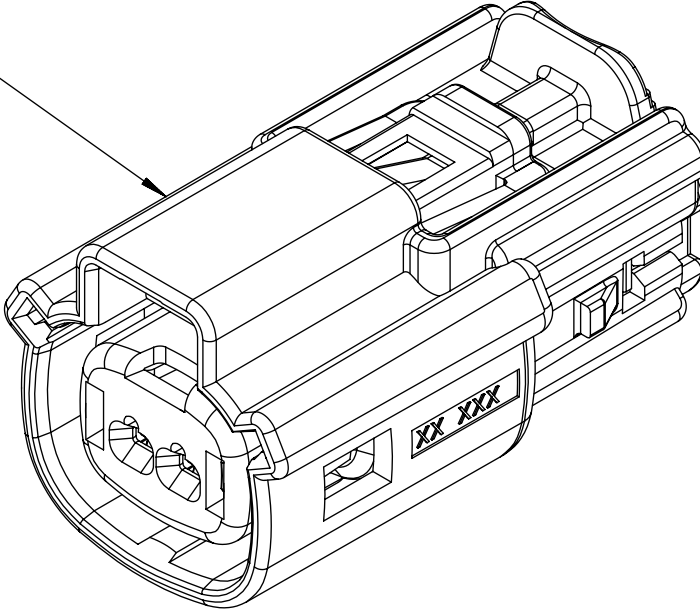
- BACKSHELL FEATURES
- 1 - WITH RIBS
 - 2 - WITHOUT RIBS

MX150 CIRCUIT SIZE 02, 03, 04, 05, 06

BACKSHELL (BKS)



RECEPTACLE SEALED ASSEMBLY

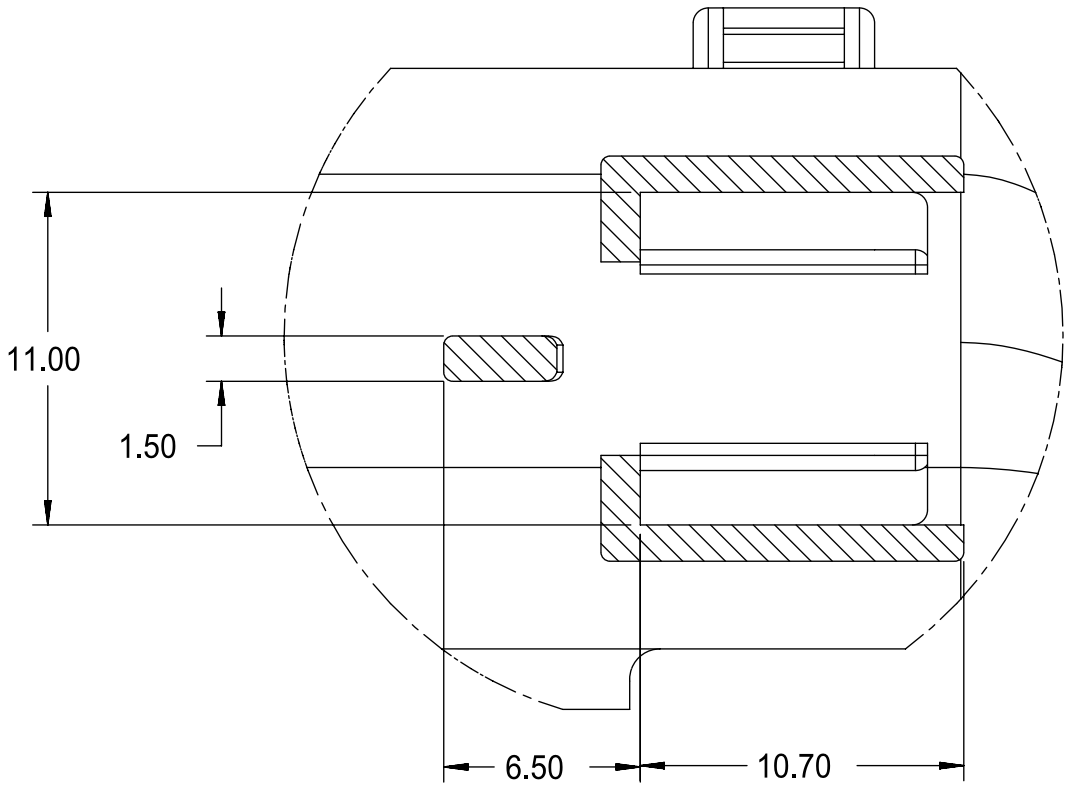
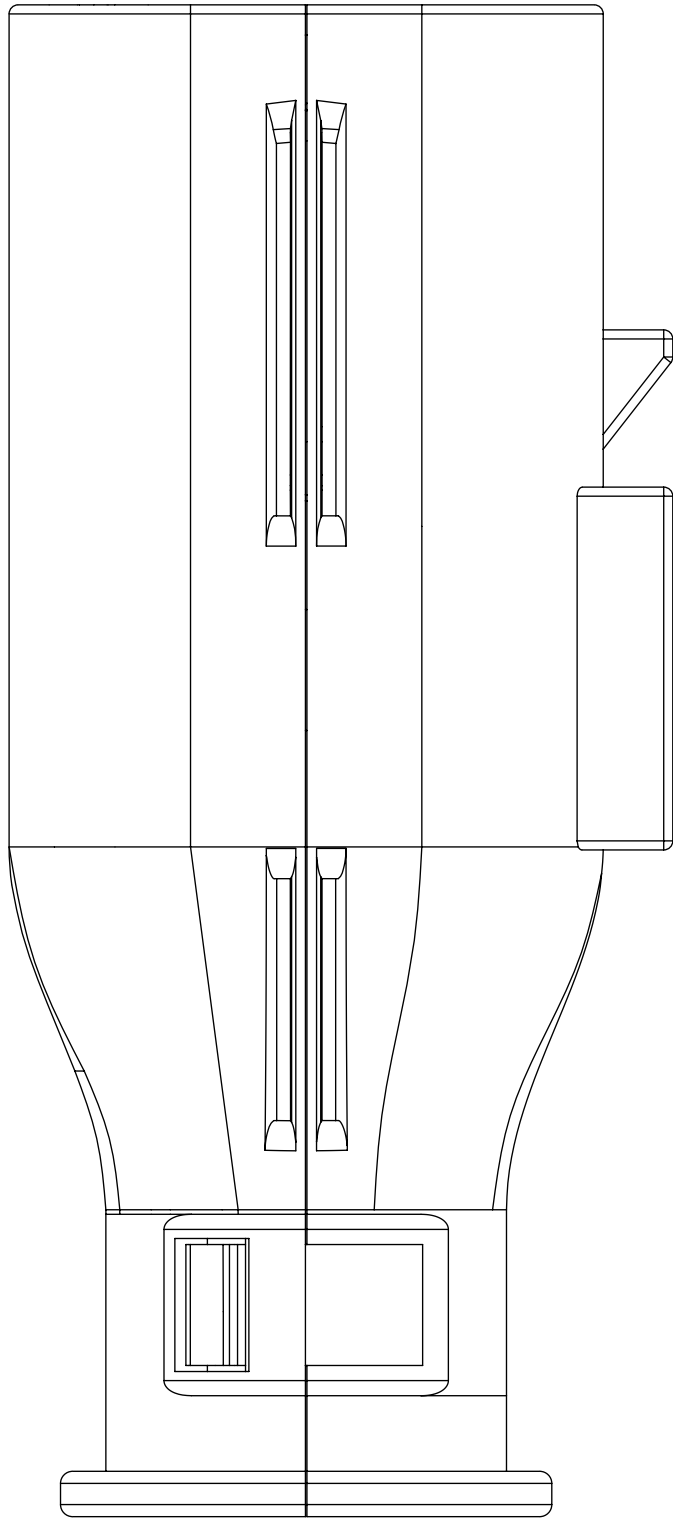
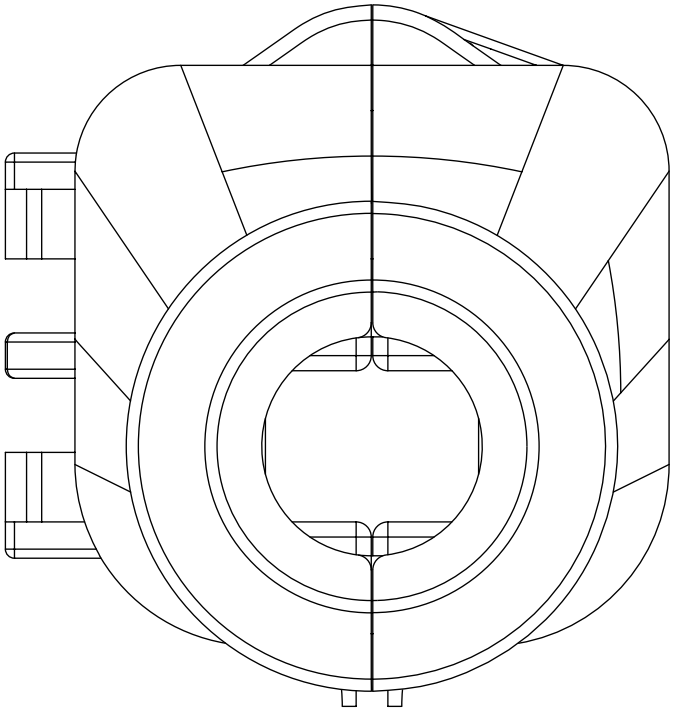
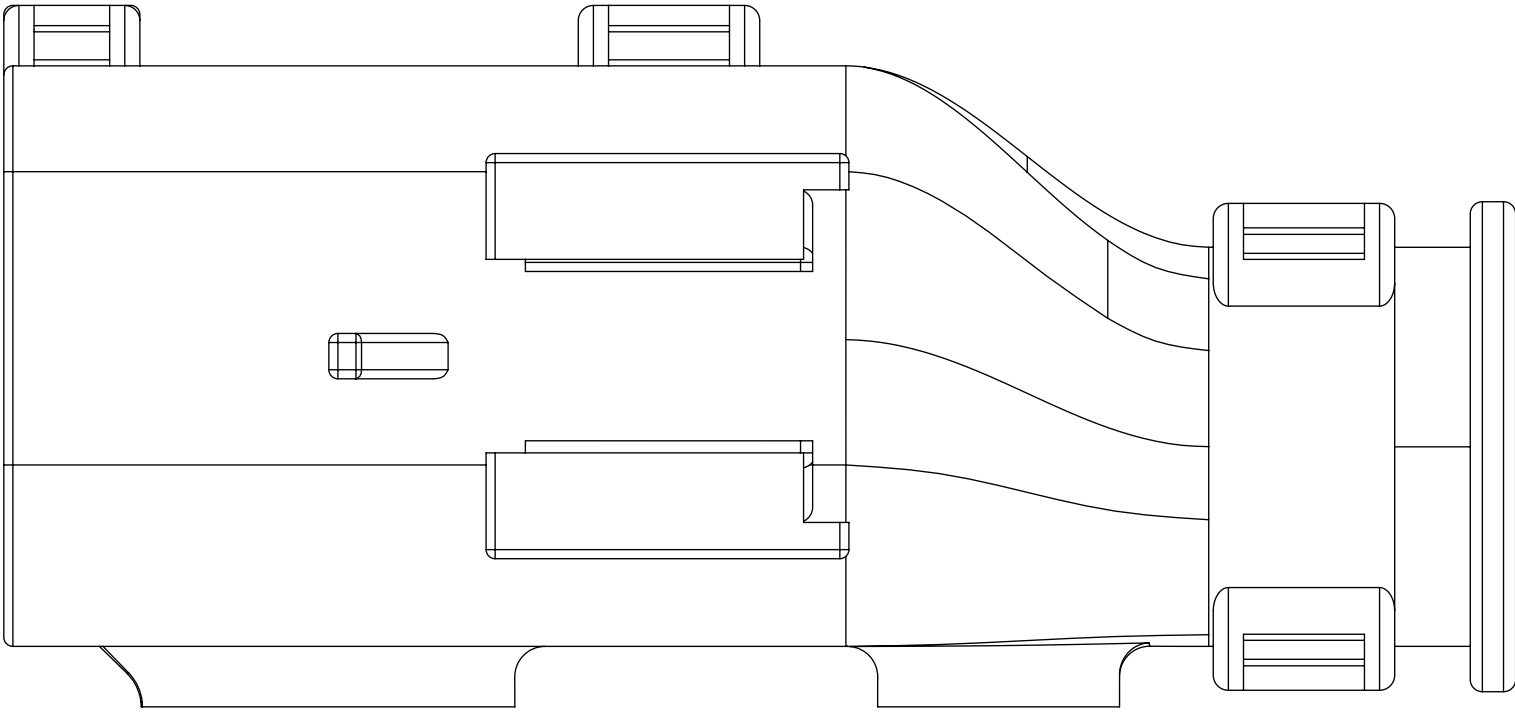
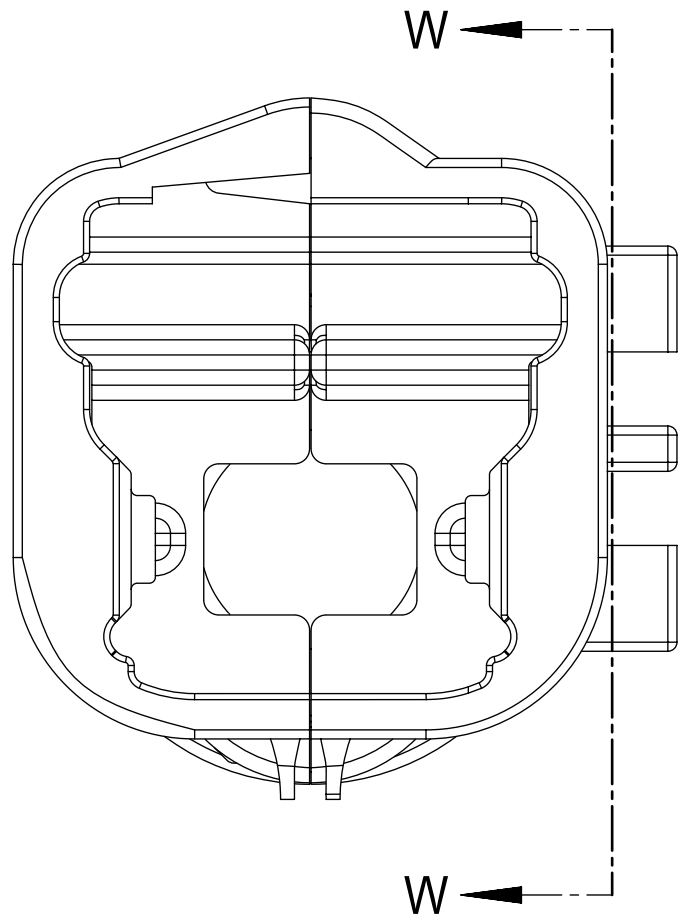
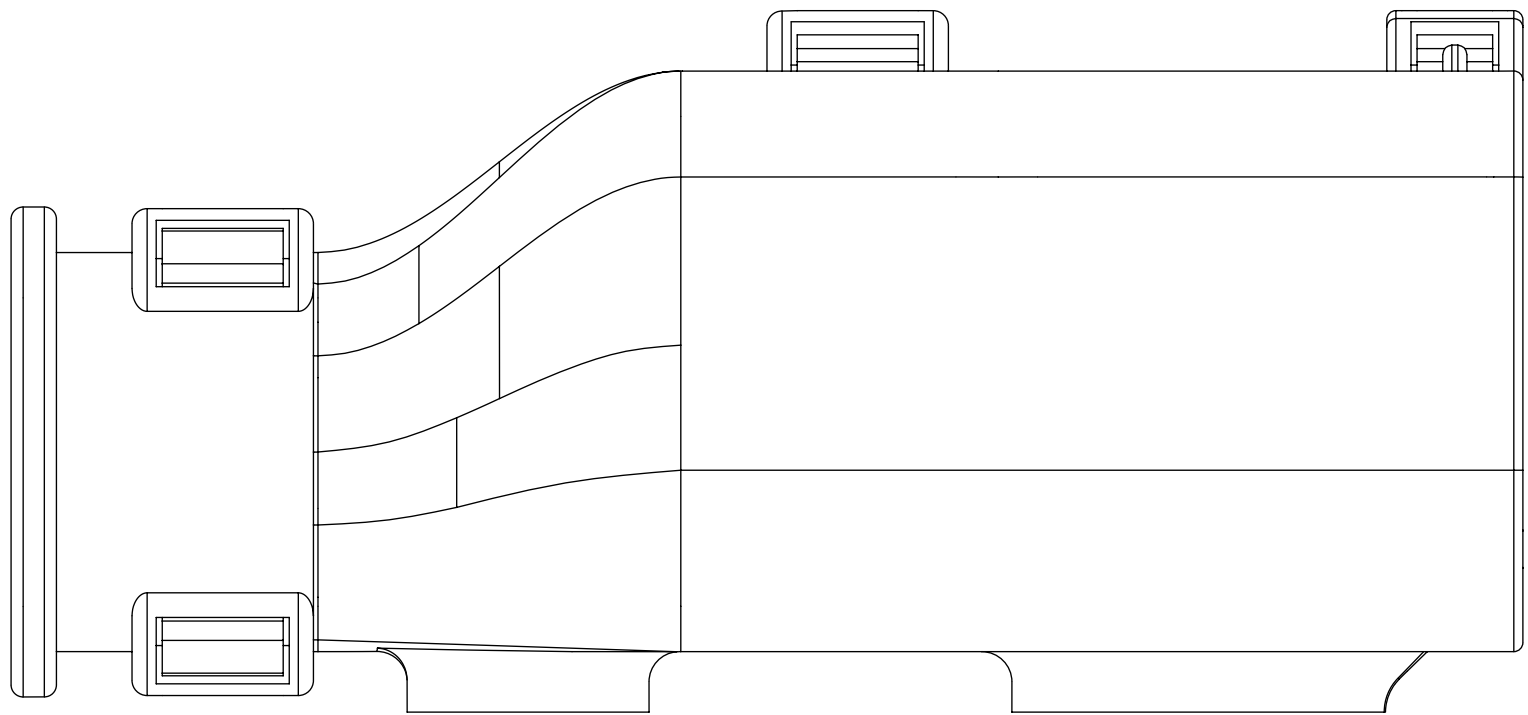


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##### FA = 0 FC = 0 FP = 0 DIVISIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC:				molex MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL				
	MM		4:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: CO-000012501 DRWN: Yann Chen 02-Sep-2022 CHK'D: Matt Young 08-May-2024 APPR: Elvis Song 10-May-2024				PRODUCT SALES DRAWING				
	ANGULAR TOL ± 1°												
	4 PLACES		± 0										
	3 PLACES		± 0										
	2 PLACES		± 0.1										
	1 PLACE		± 0.2		INITIAL REVISION: DRWN: RFC_PLMIMP APPR: KDEKOSKI 2016/06/14				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	0 PLACES		± 0						SD-33471-0001		PSD	001	A2
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
						D-SIZE	33471	SEE NOTE 2a		GENERAL MARKET		6 OF 8	

DOCUMENT STATUS	Production	RELEASE DATE	10-May-2024	07:23:52
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SHEET DESCRIPTION

BACKSHELL



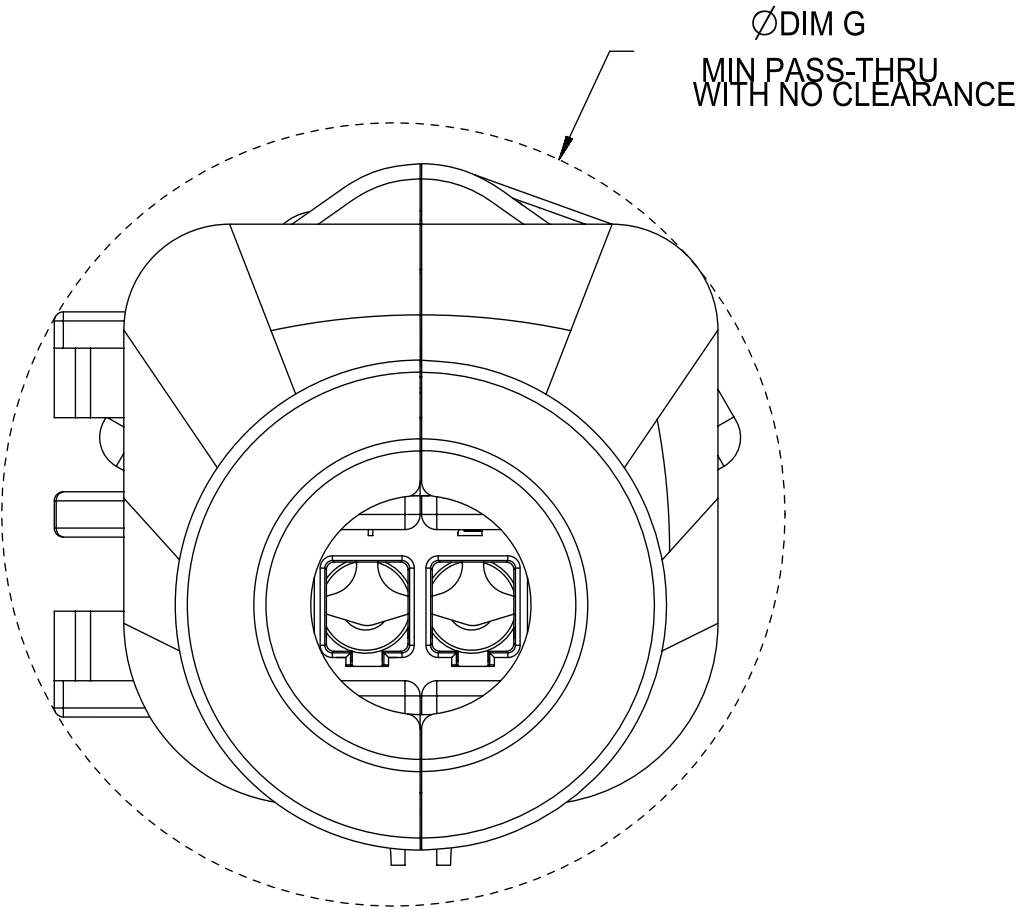
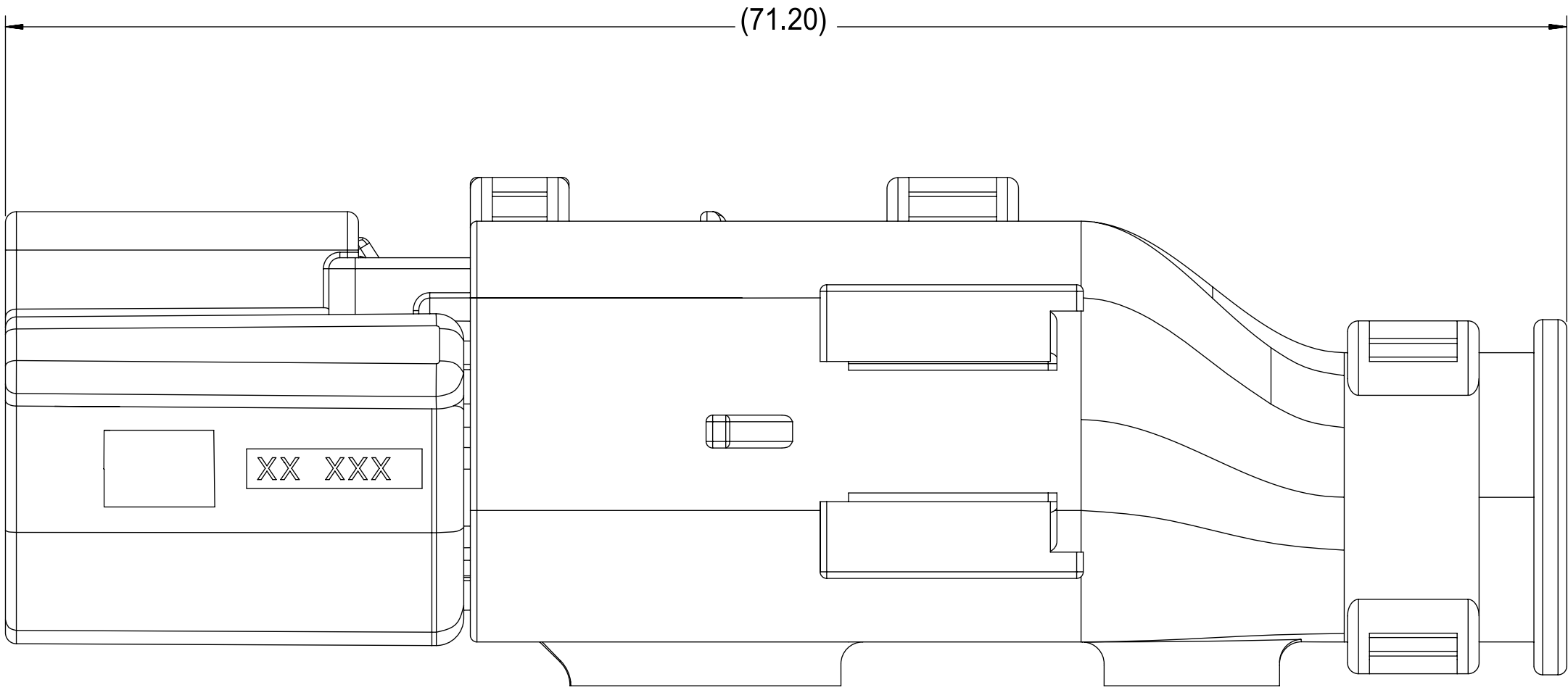
Partial W-W
SCALE 4:1

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
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	MM		4:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)												
	ANGULAR TOL ± 1°												
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	3 PLACES		± 0		DRWN: Yann Chen 02-Sep-2022								
	2 PLACES		± 0.1		CHK'D: Matt Young 08-May-2024								
	1 PLACE		± 0.2		APPR: Elvis Song 10-May-2024				PRODUCT SALES DRAWING				
	0 PLACES		± 0		INITIAL REVISION:								
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART
SD-33471-0001									PSD		001	A2	
SEE NOTE 2a									GENERAL MARKET		SHEET NUMBER		
7 OF 8													

SHEET DESCRIPTION

BACKSHELL CONFIGURATIONS

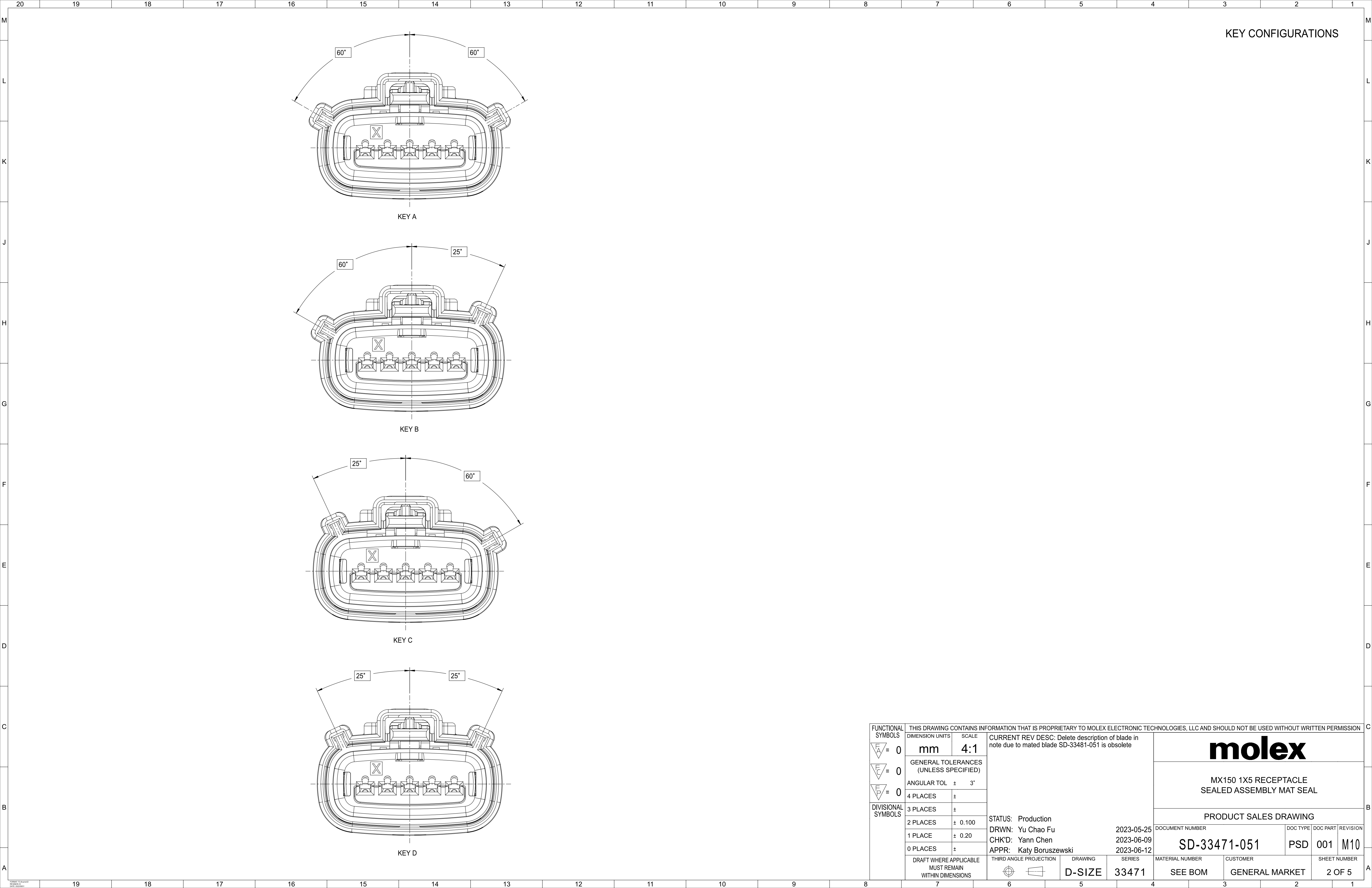
CHARTED DIMENSIONS	
DESCRIPTION	DIMENSIONS
1X2	G
	26.00

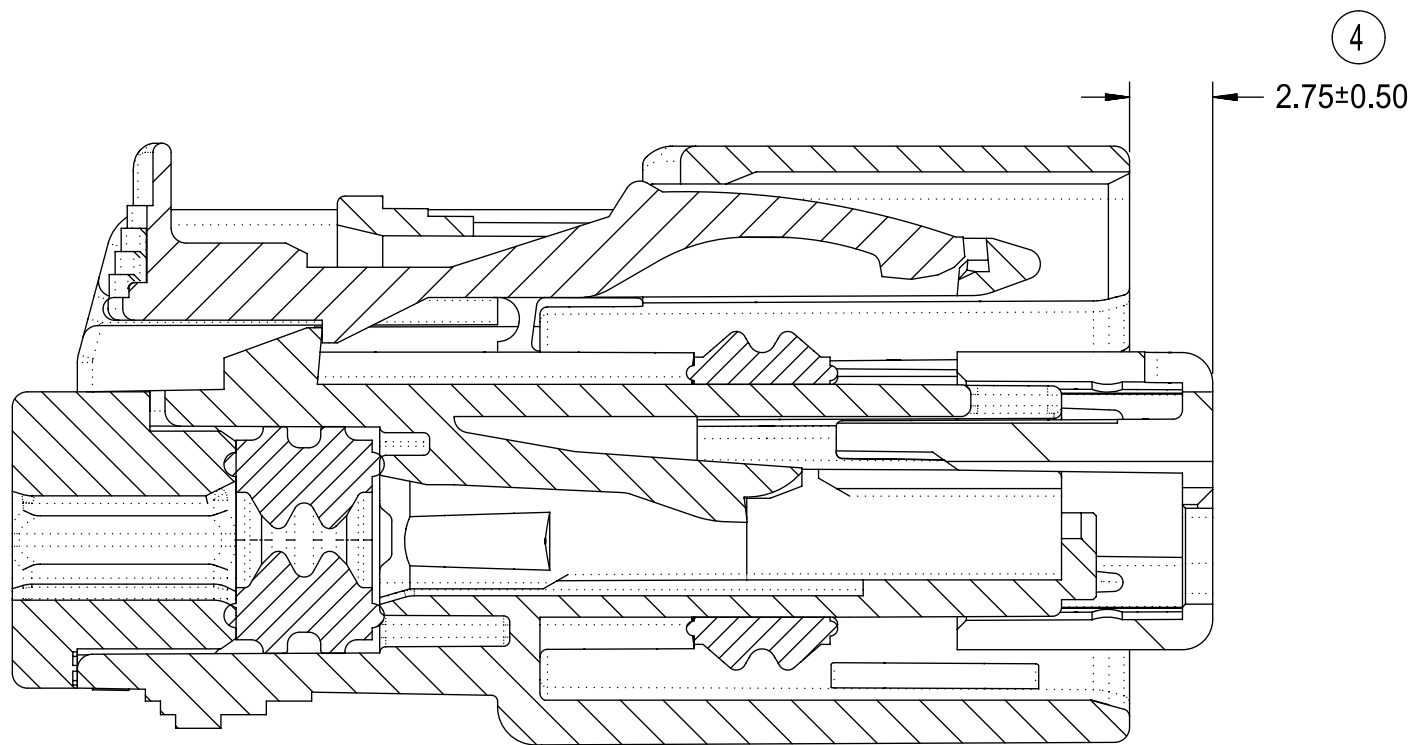
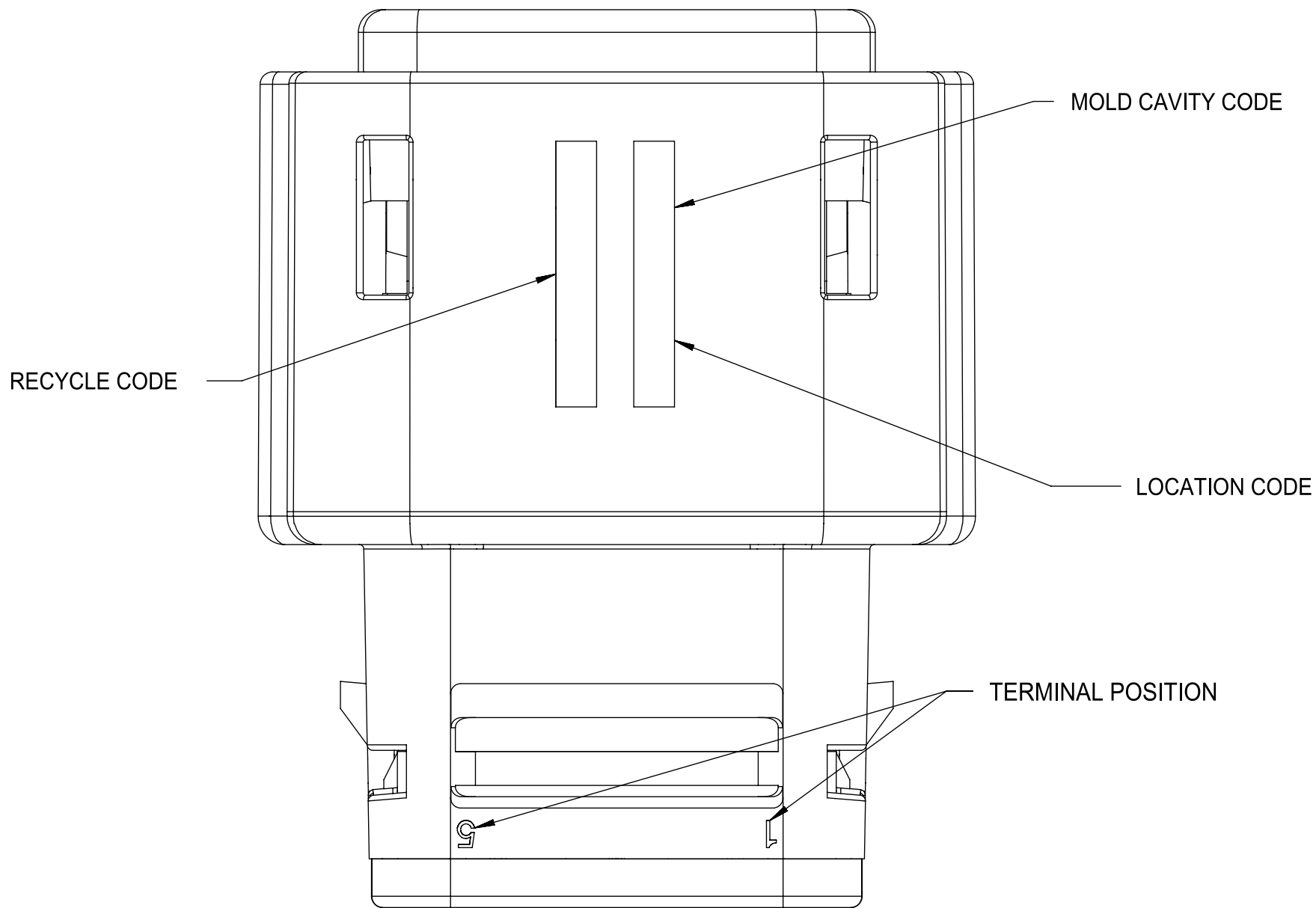
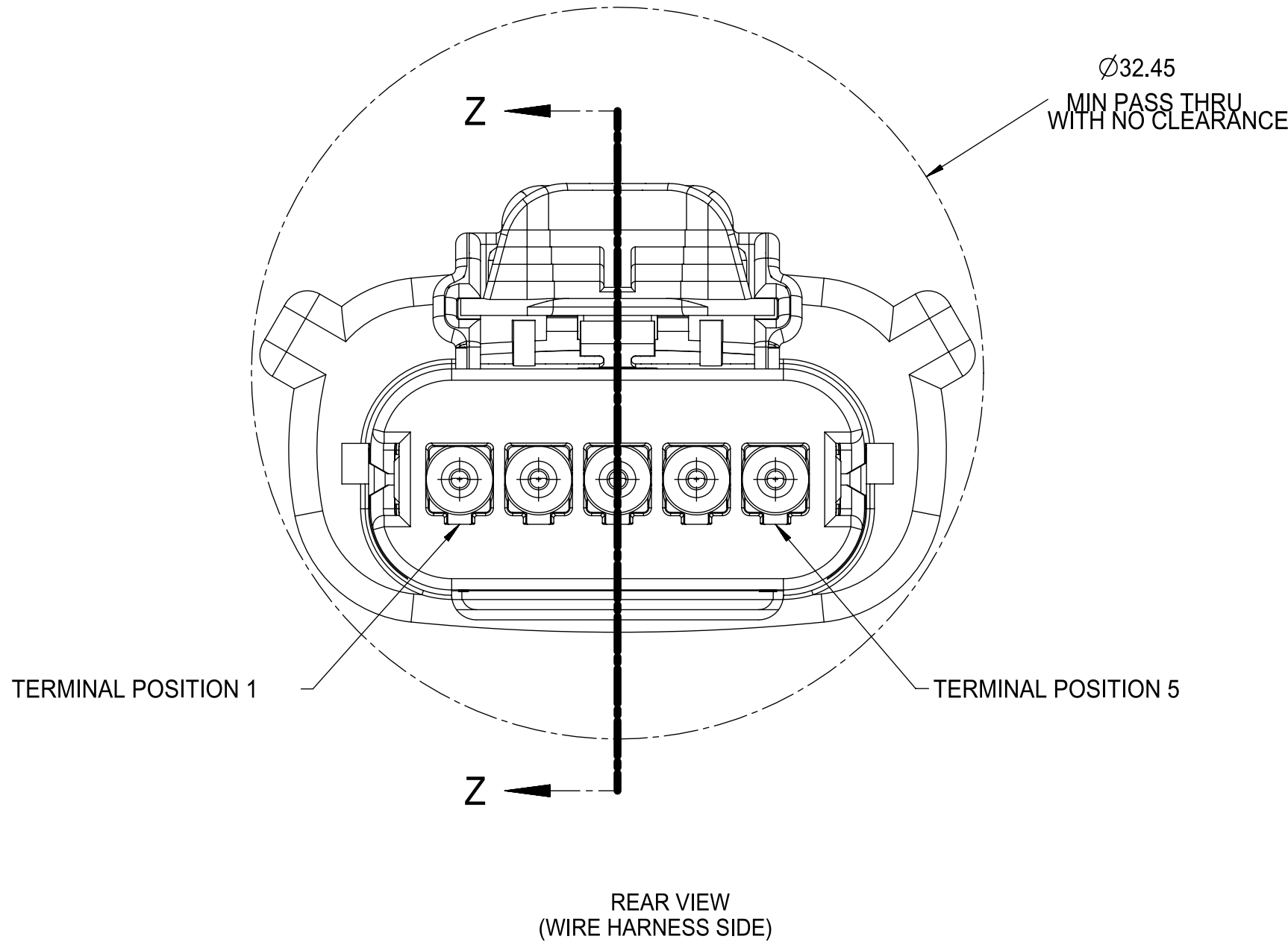
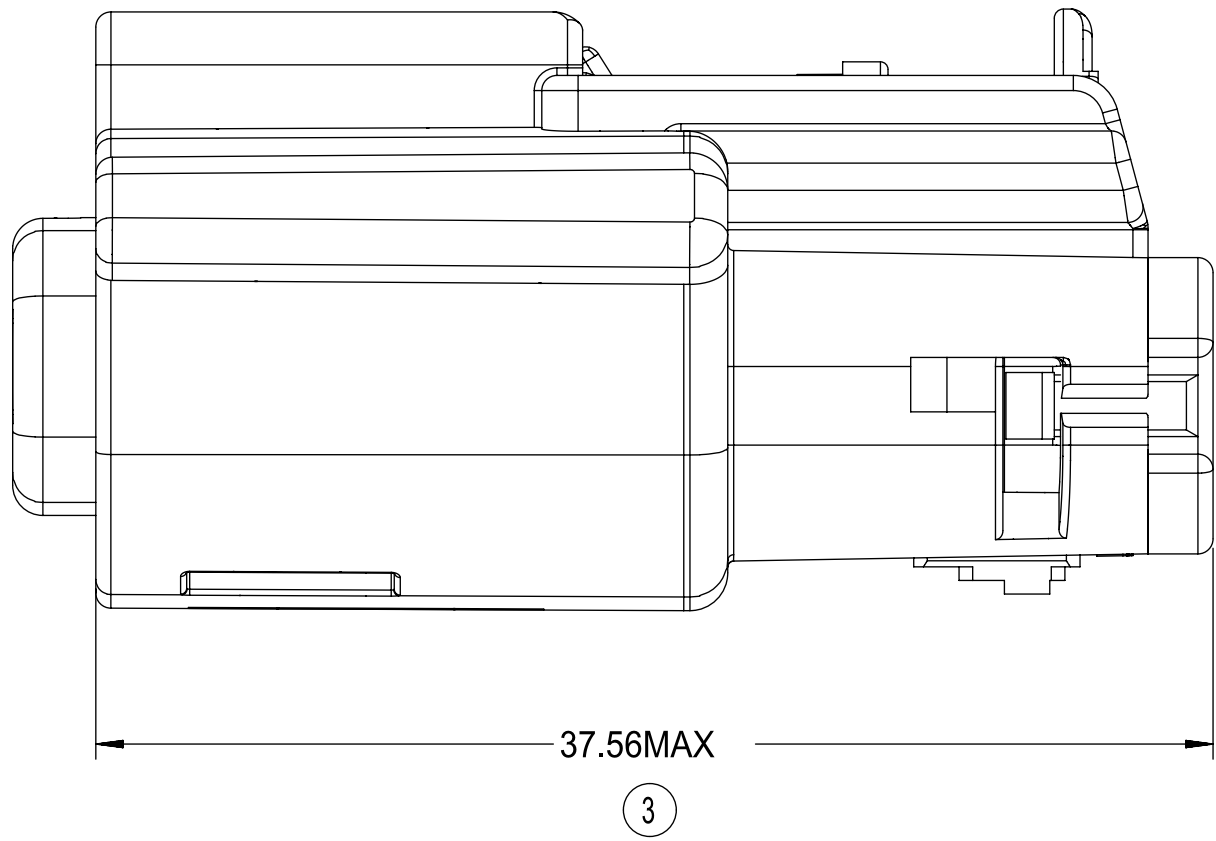
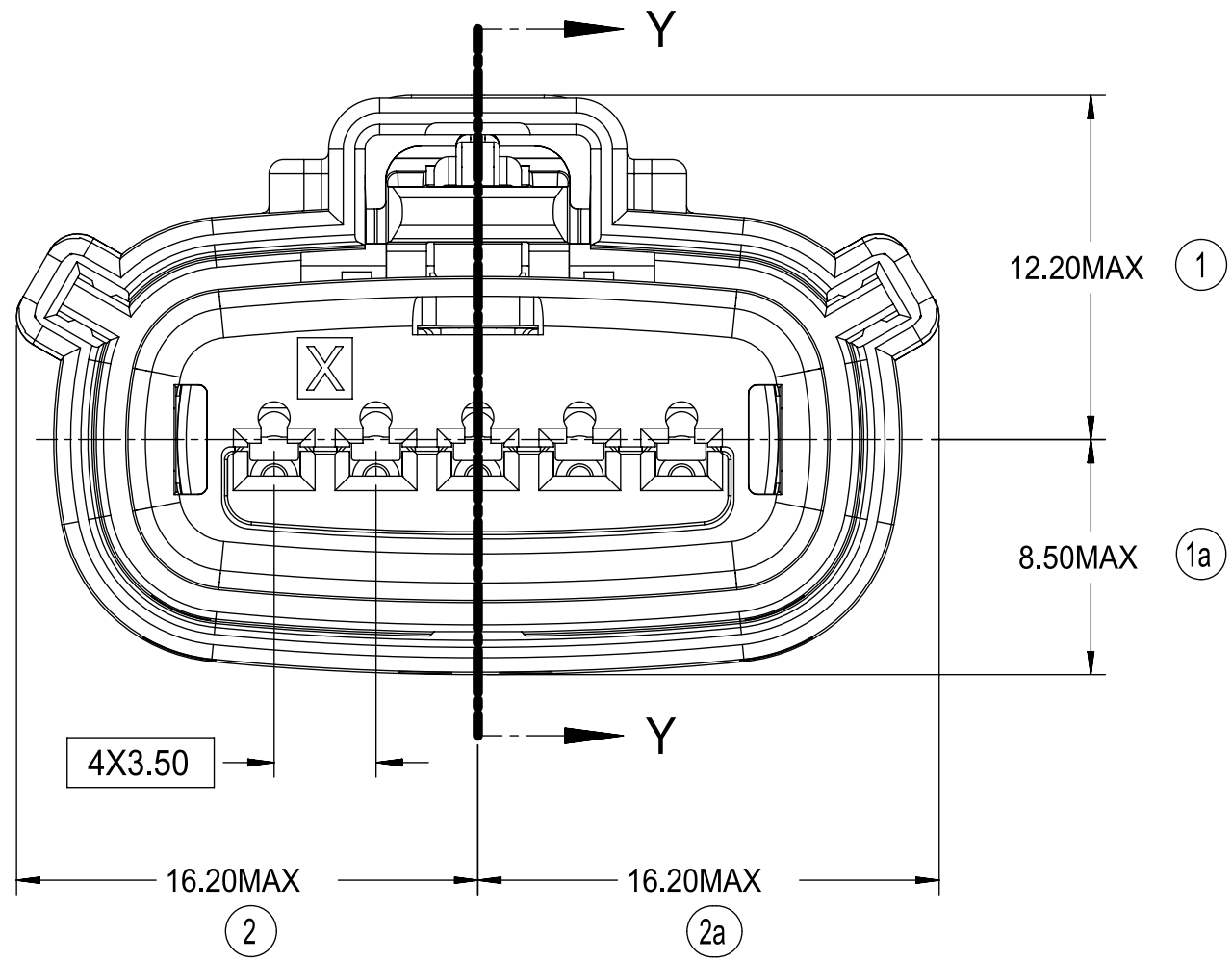
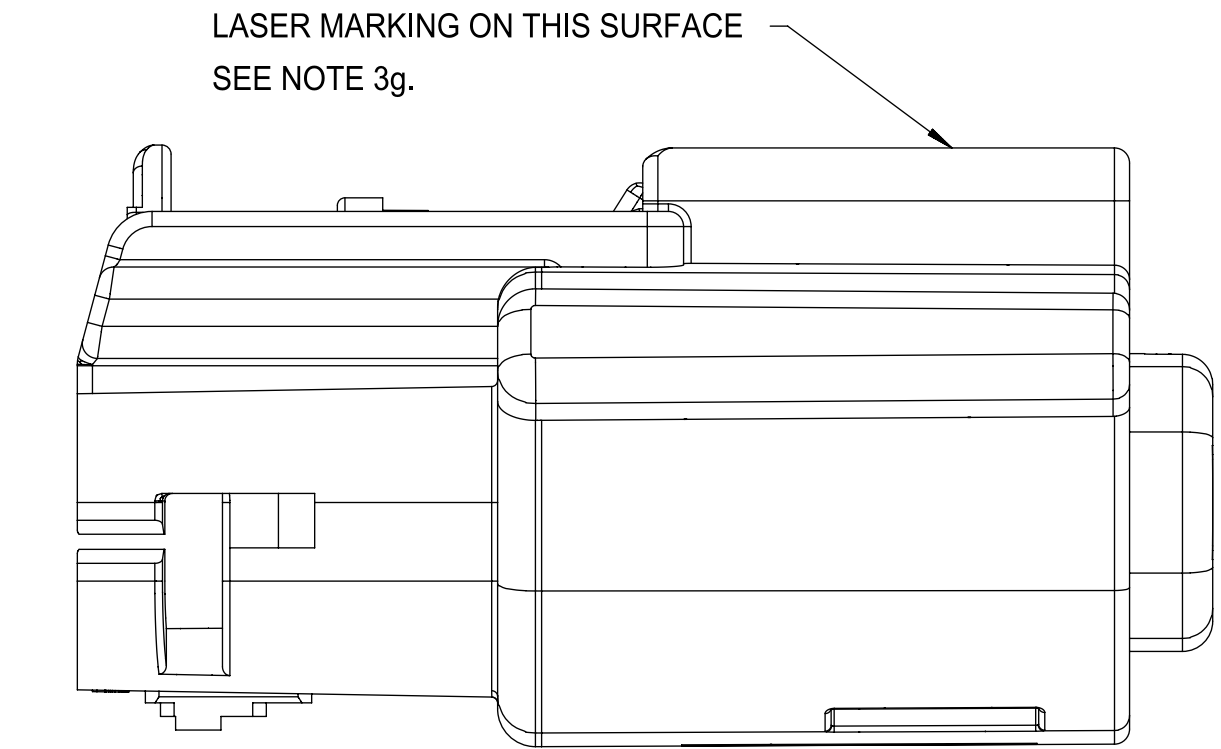


RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

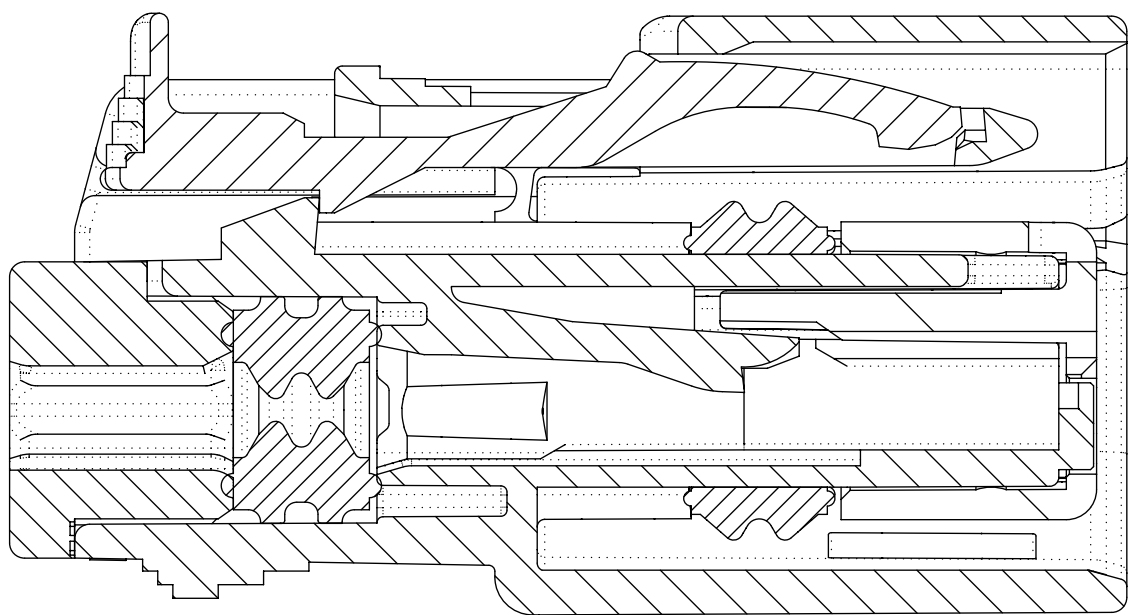
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	MM		4:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: CO-000012501 DRWN: Yann Chen 02-Sep-2022 CHK'D: Matt Young 08-May-2024 APPR: Elvis Song 10-May-2024				MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL				
	ANGULAR TOL ± 1°												
	4 PLACES		± 0										
	3 PLACES		± 0										
	2 PLACES		± 0.1										
	1 PLACE		± 0.2		INITIAL REVISION: DRWN: RFC_PLMIMP APPR: KDEKOSKI 2016/06/14				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION					DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER
				D-SIZE		33471		SEE NOTE 2a		GENERAL MARKET		8 OF 8	

DOCUMENT STATUS	Production	RELEASE DATE	10-May-2024	07:23:52
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PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN PRE-STAGED POSITION
SECTION Z-Z



PRIMARY LOCK REINFORCEMENT (PLR) SHOWN
IN FINAL-LOCK POSITION
SECTION Y-Y

FUNCTIONAL 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: Delete description of blade in note due to mated blade SD-33481-051 is obsolete			molex MX150 1X5 RECEPTACLE SEALED ASSEMBLY MAT SEAL							
	mm		4:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)														
ANGULAR TOL ± 3°															
DIVISIONAL SYMBOLS	0 PLACES		±		STATUS: Production DRWN: Yu Chao Fu 2023-05-25 CHK'D: Yann Chen 2023-06-09 APPR: Katy Boruszewski 2023-06-12			PRODUCT SALES DRAWING DOCUMENT NUMBER SD-33471-051 DWG TYPE PSD DWG PART 001 REVISION M10							
	3 PLACES		±												
	2 PLACES ± 0.100														
	1 PLACE ± 0.20														
0 PLACES ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						D-SIZE		33471		SEE BOM		GENERAL MARKET		3 OF 5	

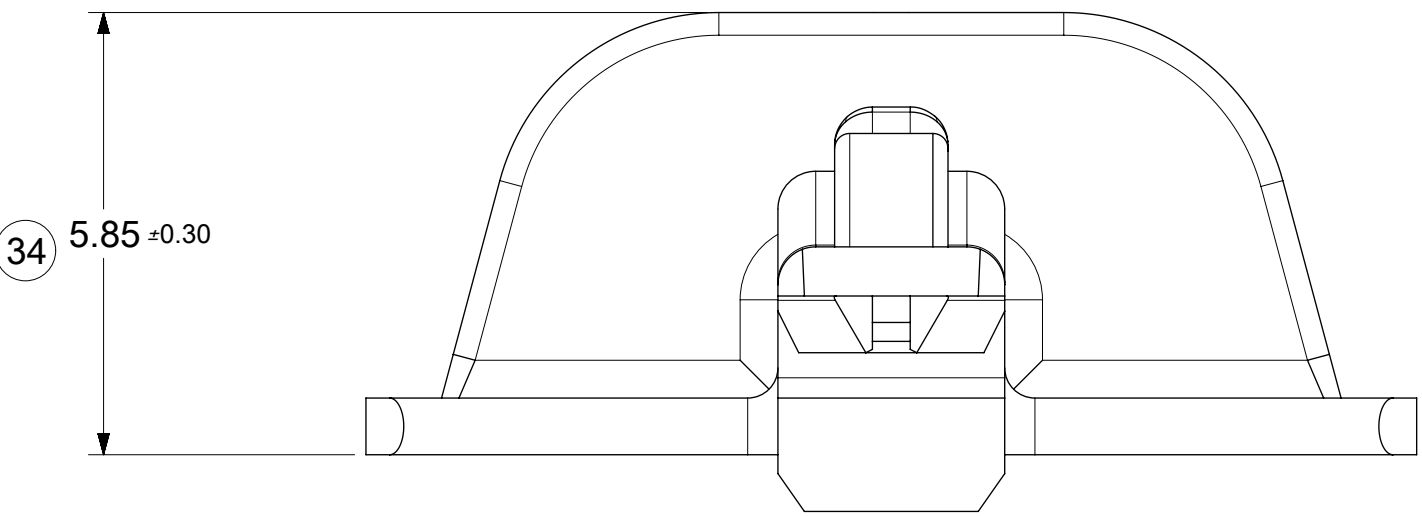
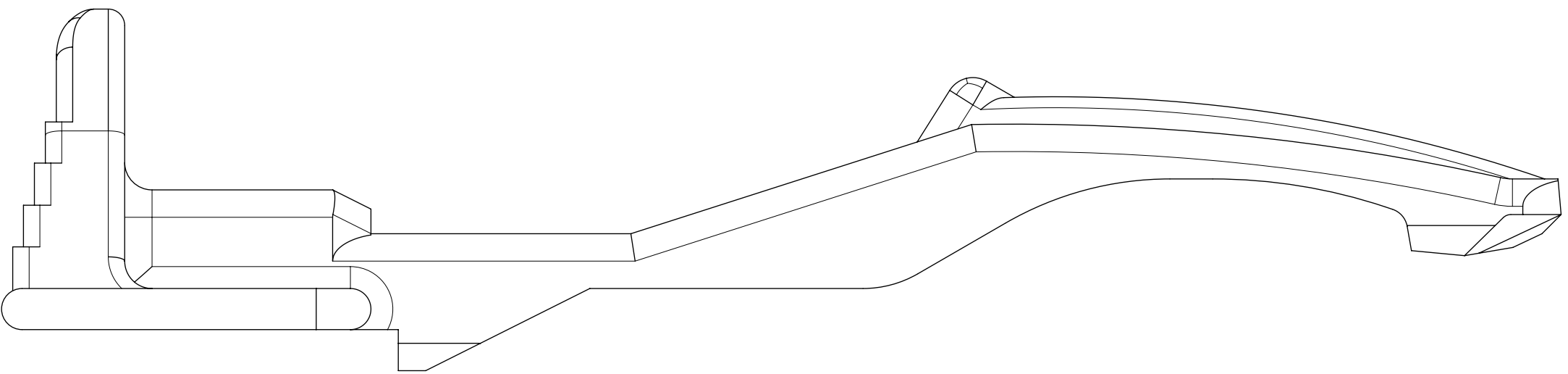
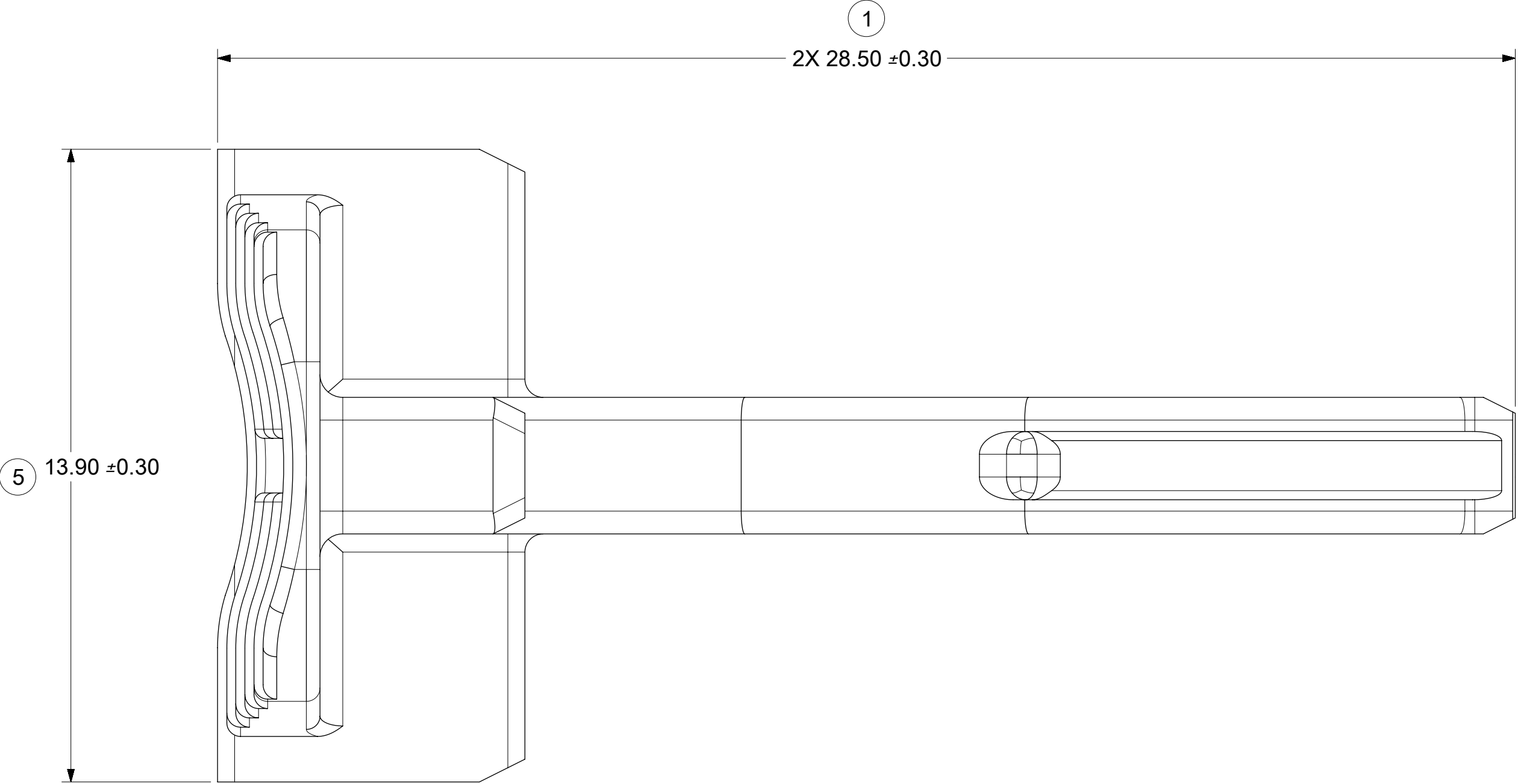
KEY A W/ CPA, BLACK		33471-0541	A						GCP	CPA	1	2	3	4	5	SALEABLE	
KEY D W/ CPA, STONE GRAY		33471-0540					D	GCO		CPA						SALEABLE	
KEY C W/ CPA, DARK GRAY		33471-0539					C	GCO		CPA						SALEABLE	
KEY D, STONE GRAY		33471-0538					D	GCO								SALEABLE	
KEY C, DARK GRAY		33471-0537					C	GCO								SALEABLE	
KEY A W/ CPA, BLACK		33471-0536	A						GCP	CPA		2		4		SALEABLE	
VOID KEY		33471-0535															
KEY D, GREEN		33471-0534				D			GCP		1	2	3	4	5	OBSOLETE	
KEY C, BROWN		33471-0533			C				GCP		1	2	3	4	5	OBSOLETE	
KEY B, LIGHT GRAY		33471-0532		B					GCP		1	2	3	4	5	M10 SALEABLE	
KEY A, BLACK		33471-0531	A						GCP		1	2	3	4	5	SALEABLE	
VOID KEY		33471-0530															
KEY D W/ CPA, GREEN		33471-0529				D			GCP	CPA	1				5	OBSOLETE	
KEY C W/ CPA, BROWN		33471-0528			C				GCP	CPA	1				5	OBSOLETE	
KEY B W/ CPA, LIGHT GRAY		33471-0527		B					GCP	CPA	1				5	M10 SALEABLE	
KEY A W/ CPA, BLACK		33471-0526	A						GCP	CPA	1				5	SALEABLE	
VOID KEY		33471-0525															
KEY D, GREEN		33471-0524				D			GCP		1				5	OBSOLETE	
KEY C, BROWN		33471-0523			C				GCP		1				5	OBSOLETE	
KEY B, LIGHT GRAY		33471-0522		B					GCP		1				5	M10 SALEABLE	
KEY A, BLACK		33471-0521	A						GCP		1				5	SALEABLE	
VOID KEY		33471-0520															
KEY D W/ CPA, GREEN		33471-0519				D			GCP	CPA					5	OBSOLETE	
KEY C W/ CPA, BROWN		33471-0518			C				GCP	CPA					5	OBSOLETE	
KEY B W/ CPA, LIGHT GRAY		33471-0517		B					GCP	CPA					5	M10 SALEABLE	
KEY A W/ CPA, BLACK		33471-0516	A						GCP	CPA					5	SALEABLE	
VOID KEY		33471-0515															
KEY D, GREEN		33471-0514				D			GCP						5	OBSOLETE	
KEY C, BROWN		33471-0513			C				GCP						5	OBSOLETE	
KEY B, LIGHT GRAY		33471-0512		B					GCP						5	M10 SALEABLE	
KEY A, BLACK		33471-0511	A						GCP						5	SALEABLE	
VOID KEY		33471-0510															
KEY D W/ CPA, GREEN		33471-0509				D		GCO		CPA						NOT RECOMMENDED USE,PLEASE USE 33471-0540	
KEY C W/ CPA, BROWN		33471-0508			C			GCO		CPA						NOT RECOMMENDED USE,PLEASE USE 33471-0539	
KEY B W/ CPA, LIGHT GRAY		33471-0507		B				GCO		CPA						M10 SALEABLE	
KEY A W/ CPA, BLACK		33471-0506	A					GCO		CPA						SALEABLE	
VOID KEY		33471-0505															
KEY D, GREEN		33471-0504				D		GCO								NOT RECOMMENDED USE,PLEASE USE 33471-0538	
KEY C, BROWN		33471-0503			C			GCO								NOT RECOMMENDED USE,PLEASE USE 33471-0537	
KEY B, LIGHT GRAY		33471-0502		B				GCO								M10 SALEABLE	
KEY A, BLACK		33471-0501	A					GCO								SALEABLE	
ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	A	B	C	D	C	D	GCO	GCP	CPA	1	2	3	4	5	STATUS	COMMENTS
							BLOCKED TERMINAL										
		CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION															

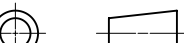
[illegible]

MAT SEAL	ROYAL BLUE	INHERENTLY LUBRICATED SILICONE
RING SEAL	ROYAL BLUE	INHERENTLY LUBRICATED SILICONE
PLR	NATURAL	SPS/NYLON GF20
CPA	RED	PBT GF30
GROMMET CAP (PLUGGED)	BLACK	SPS/NYLON GF20
GROMMET CAP (OPEN)	BLACK	SPS/NYLON GF20
HOUSING KEYING OPTION A	YELLOW	SPS/NYLON GF20
HOUSING KEYING OPTION D	STONE GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION C	DARK GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION D	GREEN	SPS/NYLON GF20
HOUSING KEYING OPTION C	BROWN	SPS/NYLON GF20
HOUSING KEYING OPTION B	LIGHT GRAY	SPS/NYLON GF20
HOUSING KEYING OPTION A	BLACK	SPS/NYLON GF20
DESCRIPTION	COLOR	MATERIAL
BOM/APPLICABLE COMPONENTS TABLE		

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
FUNCTIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: Delete description of blade in note due to mated blade SD-33481-051 is obsolete		molex MX150 1X5 RECEPTACLE SEALED ASSEMBLY MAT SEAL				
	mm		2:1		STATUS: Production DRWN: Yu Chao Fu2023-05-25 CHK'D: Yann Chen2023-06-09 APPR: Katy Boruszewski2023-06-12						
GENERAL TOLERANCES (UNLESS SPECIFIED)											
ANGULAR TOL ± 3°											
4 PLACES		±									
3 PLACES		±									
DIVISIONAL SYMBOLS	2 PLACES		± 0.100			PRODUCT SALES DRAWING					
	1 PLACE		± 0.20								
	0 PLACES		±			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
							D-SIZE	33471	SEE BOM	GENERAL MARKET	5 OF 5

CPA DETAIL



SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				
 = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC:					molex 1.5MM STANDARD CONNECTOR CONNECTOR POS. ASSURANCE											
	mm		10:1																		
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 620500 DRWN: MSELANGO VAN 2019/07/02 CHK'D: KBORUSZEWSKI 2019/07/11 APPR: MVANSLAMBROU 2019/07/13										PRODUCT CUSTOMER DRAWING						
	ANGULAR TOL ± 3.0 °																				
	4 PLACES		±																		
	3 PLACES		±		INITIAL REVISION: DRWN: RELEASE 2019/06/26 APPR: MVANSLAMBROU 2019/07/13					DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION							
	2 PLACES		± 0.1							SD-33611-001		PSD	001	A3							
	1 PLACE		± 0.3		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
	0 PLACES		±									D-SIZE		33611		SEE BOM		GENERAL MARKET		2 OF 2	