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SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	BLADE SEALED ASSEMBLY
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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 RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-041. RECEPTACLE SEALED ASSEMBLY CONFIGURATION MUST CONTAIN A PLR WITH SHORTING BAR LIFTER.

-FOR 1.5mm BLADE TERMINALS TO BE USED WITH THE SHORTING BAR CIRCUIT LOCATIONS SEE MOLEX DRAWING SD-31296-001.

-SHORTING BAR TERMINALS TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.7mm TO 2.06mm.

-FOR 1.5mm BLADE TERMINALS TO BE USED WITH THE NON-SHORTING BAR CIRCUIT LOCATIONS SEE MOLEX DRAWING SD-33000-001.

-NON-SHORTING BAR TERMINALS TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.

-ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION

-IN THE EVENT THAT THE PLR IS FOUND IN THE SEATED (FINAL LOCK) POSITION, REFER TO MOLEX SPECIFICATION PS-34646-001, AVAILABLE AT www.molex.com <<http://www.molex.com>>

-ASSEMBLY CONFORMS TO SAE/USCAR-2 REV.4 WITH THE FOLLOWING EXCEPTIONS: TERMINAL INSERTION FORCE FOR WIRE DIAMETER ABOVE 2.5mm NOT EXCEEDING 2.69mm SHALL NOT EXCEED 45 NEWTONS.

b. PRODUCT SPECIFICATION SEE: PS-33471-000

CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.

c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-635

d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016

e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

f. FOR INFORMATION ON 1X4 BLADE SEALED ASSEMBLY WITHOUT SHORTING BAR SEE SD-33481-041.

2. DESIGN - MATERIALS:

a. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED

b. MAT SEAL: INHERENTLY LUBRICATED SILICONE

c. SHORTING BARS: STAINLESS STEEL

3. DESIGN - GEOMETRY:

a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.

b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994

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: TBD

K2	ADDED NEW P/N 31280-4436 TO 31280-4451
K	ADDED NEW P/N 31280-0450 31280-0451
J	ADDED NEW P/N 31280-0449
H	ADDED NEW P/N 31280-0448
G	UPDATED GROMMET CAP
F1	UPDATED DIMENSIONS TO MATCH MODEL
F	REDRAWN
REV	DESCRIPTION

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	DIMENSION UNITS	SCALE
= 0	EC NO: 167392 DRWN: LSONG05 CHKD: REV: APPR: MVANSLAMBROU	mm	3:1
= 0		DRWN BY	DATE
= 0		KCUNNINGHAM	2012/08/28
= 0		CHKD BY	DATE
= 0		MDICK	2013/03/22
= 0		APPR BY	DATE
= 0		VKOSHY	2012/09/04
= 0		DRAWING SIZE	THIRD ANGLE PROJECTION
= 0		D	
= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

RELEASE STATUS	P1	RELEASE DATE	31.10.2017	21:13:47
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2017/10/30

2017/10/31

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.1

1 PLACE ± 0.3

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

2017/10/30

2017/10/31

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

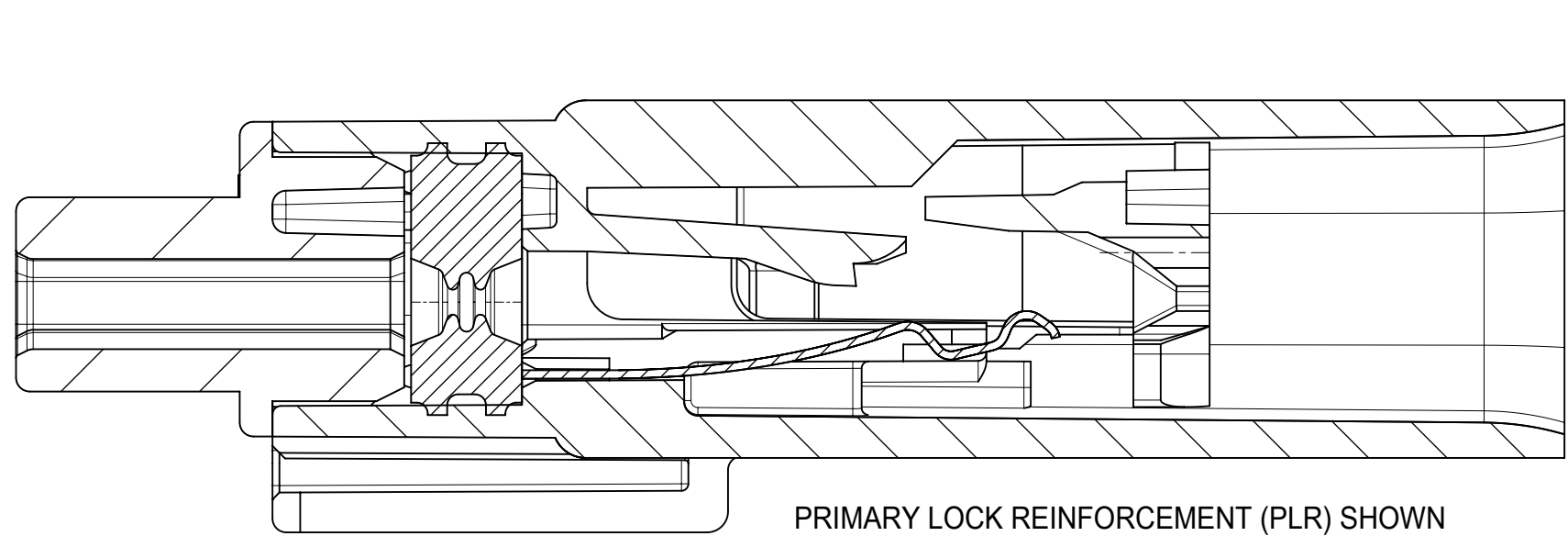
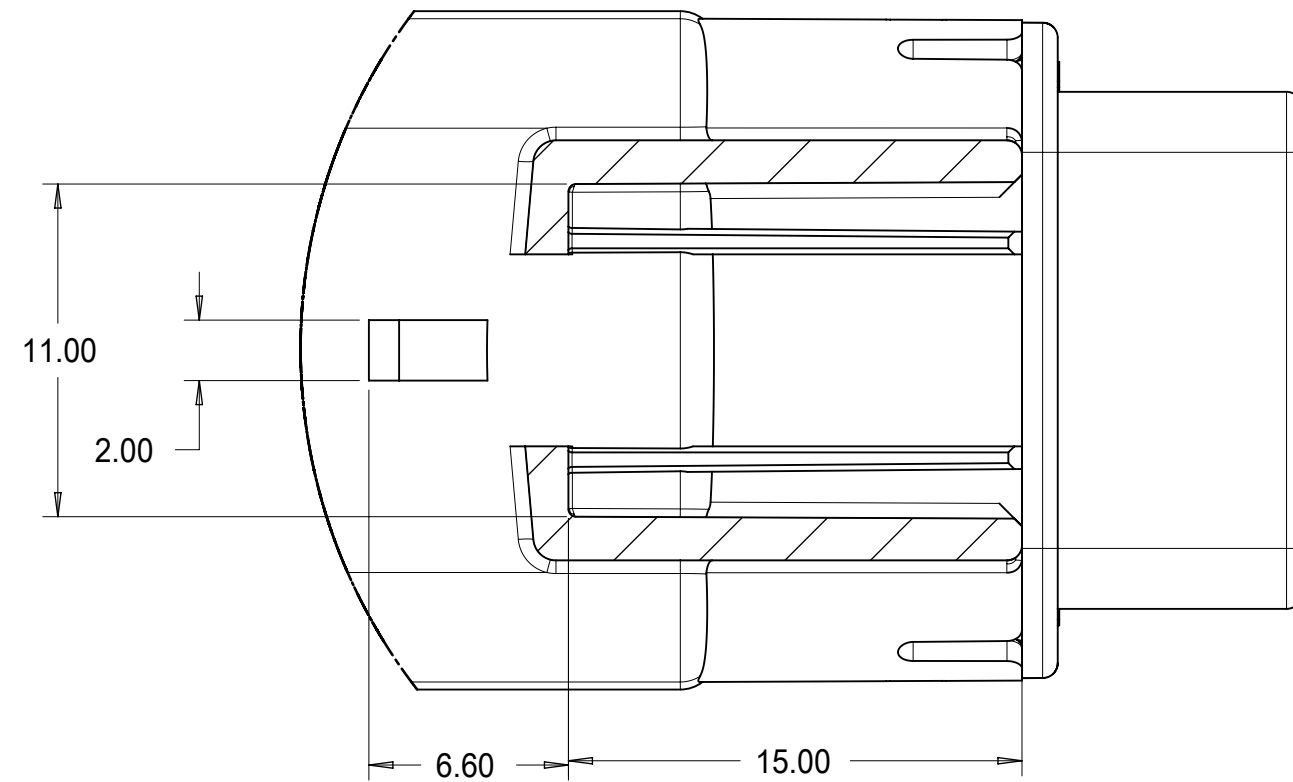
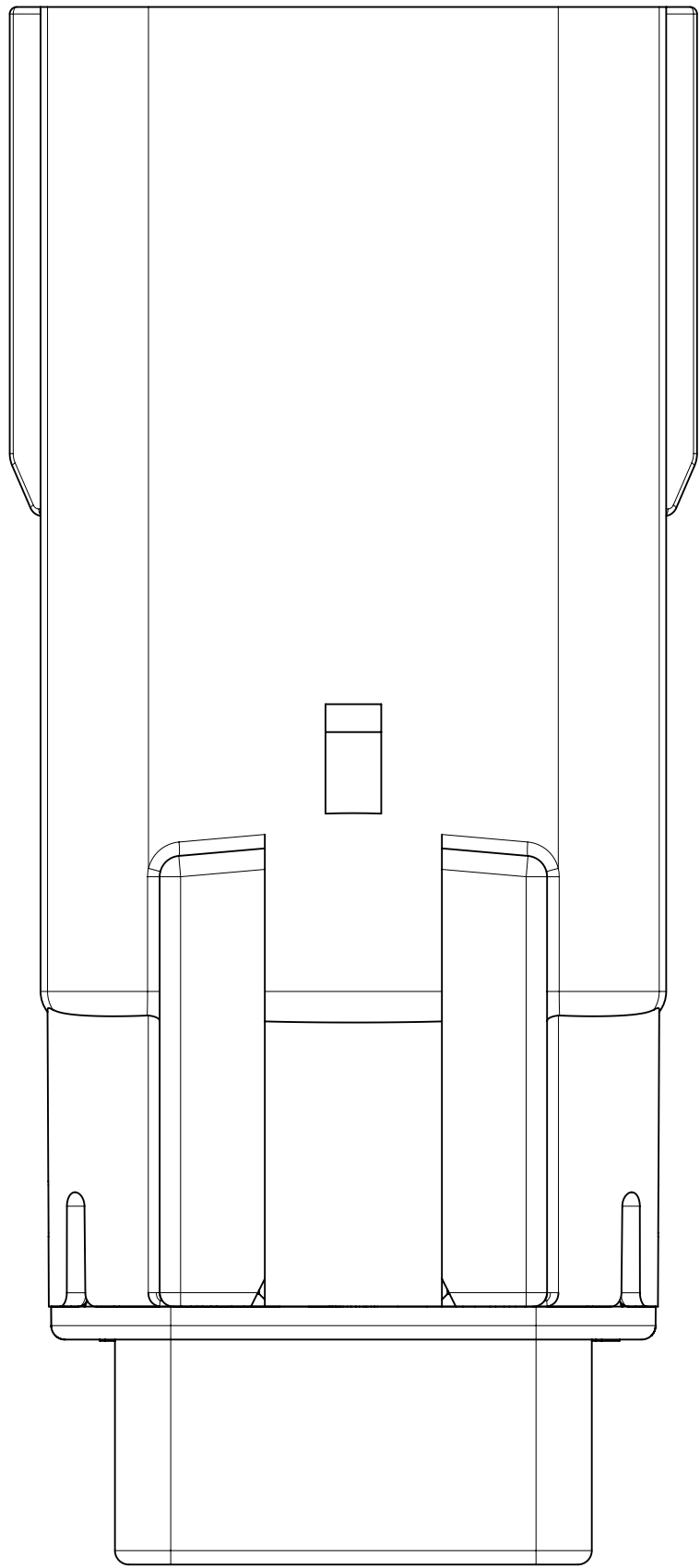
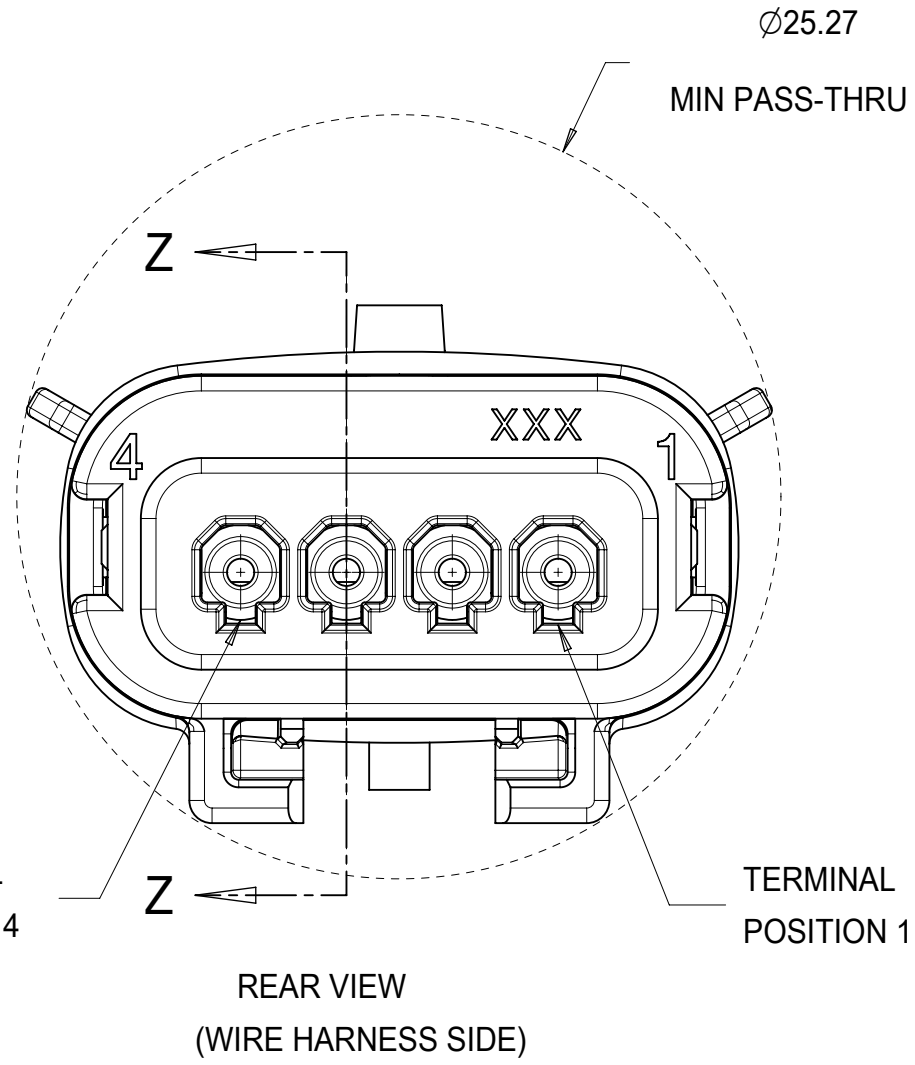
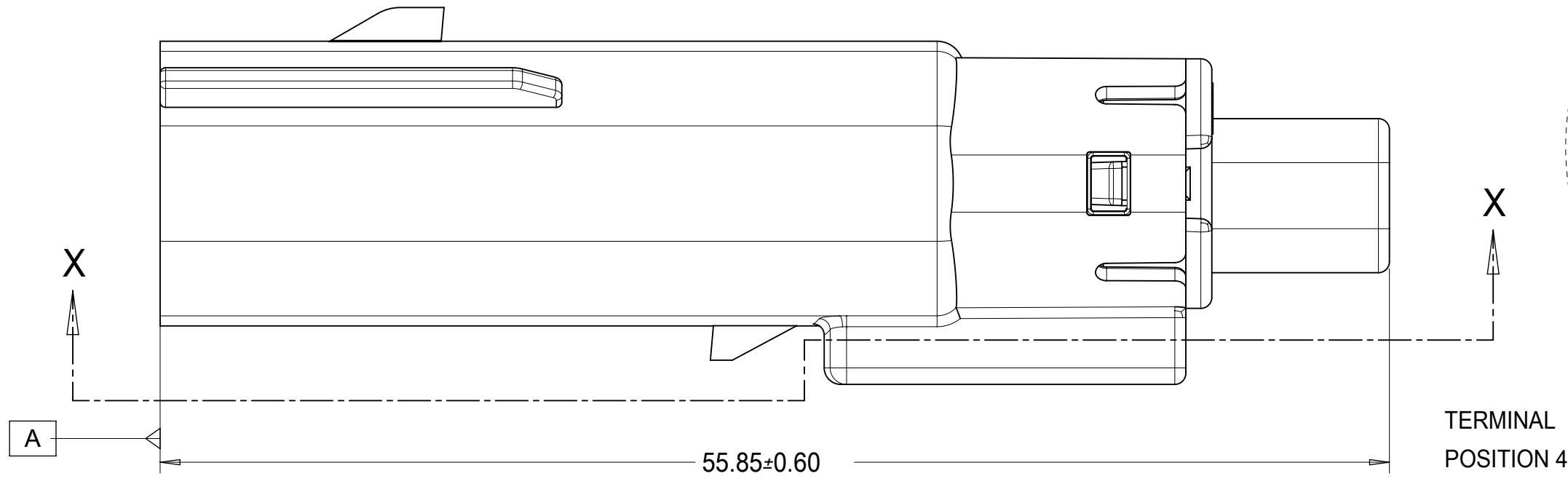
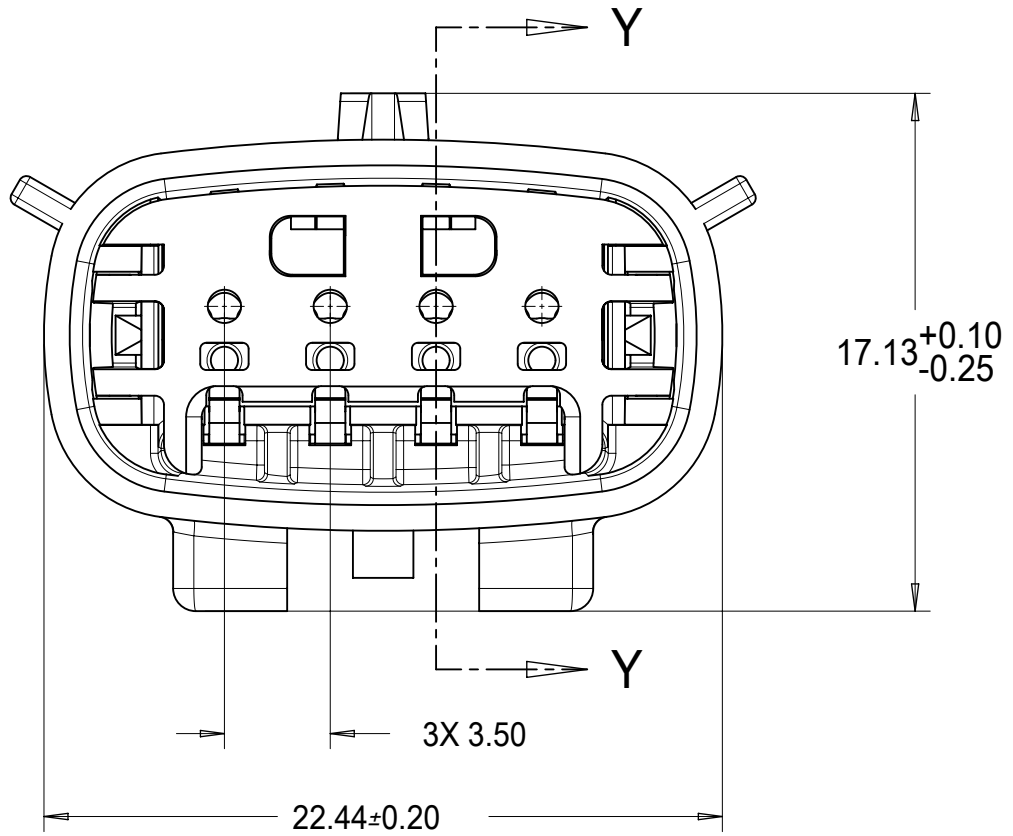
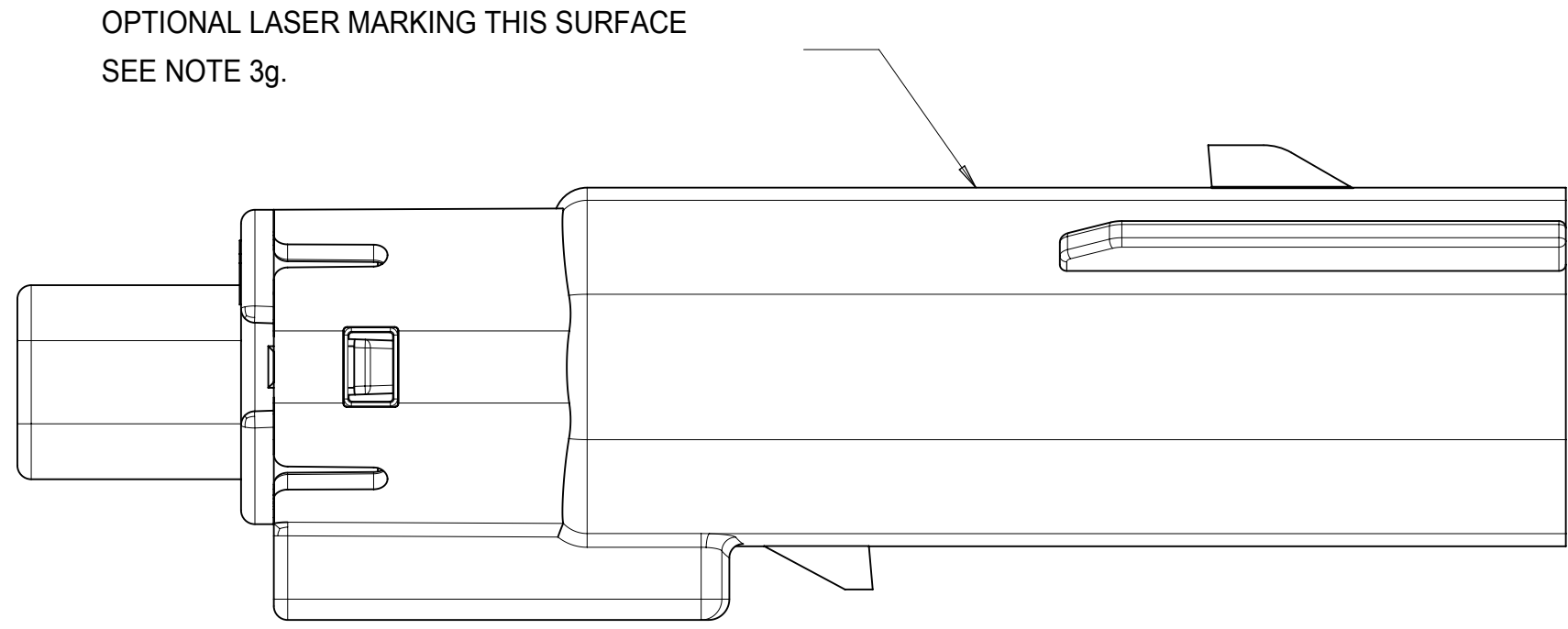
2 PLACES ± 0.1

1 PLACE ± 0.3

0 PLACES ±

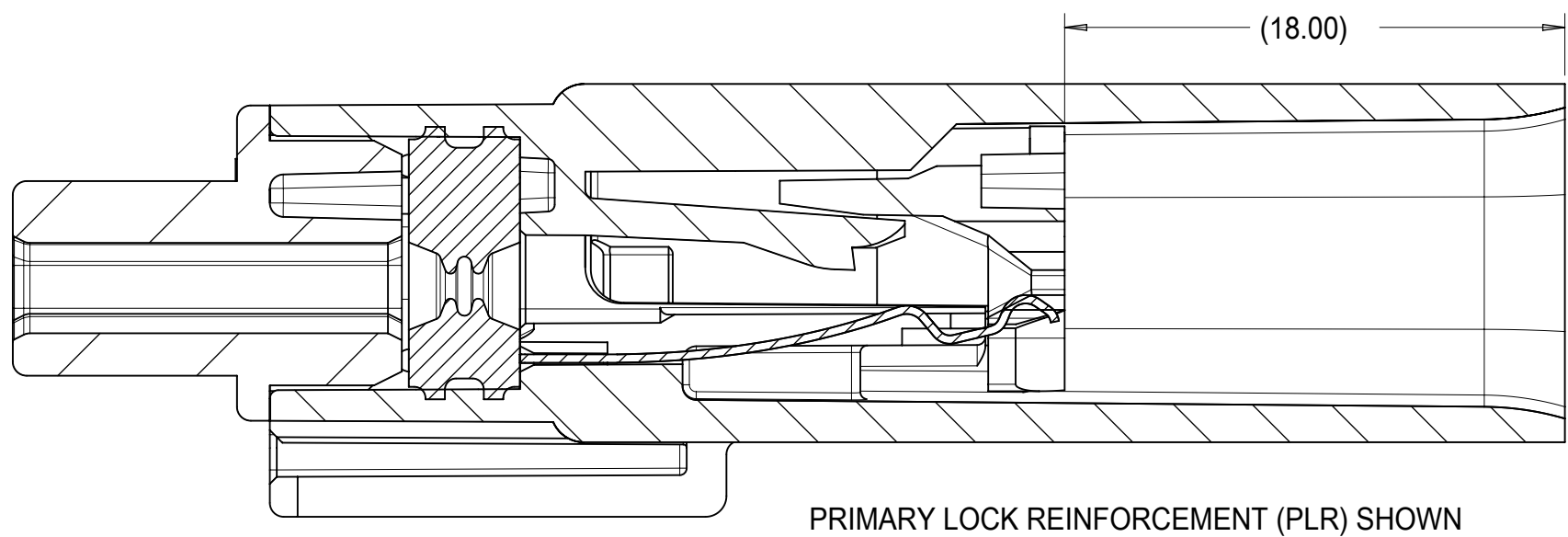
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

31280	SEE BOM	GENERAL MARKET
DOCUMENT NUMBER	DOC TYPE	DOC PART SHEET NUMBER
SD-31280-200	PSD	001 1 OF 5



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

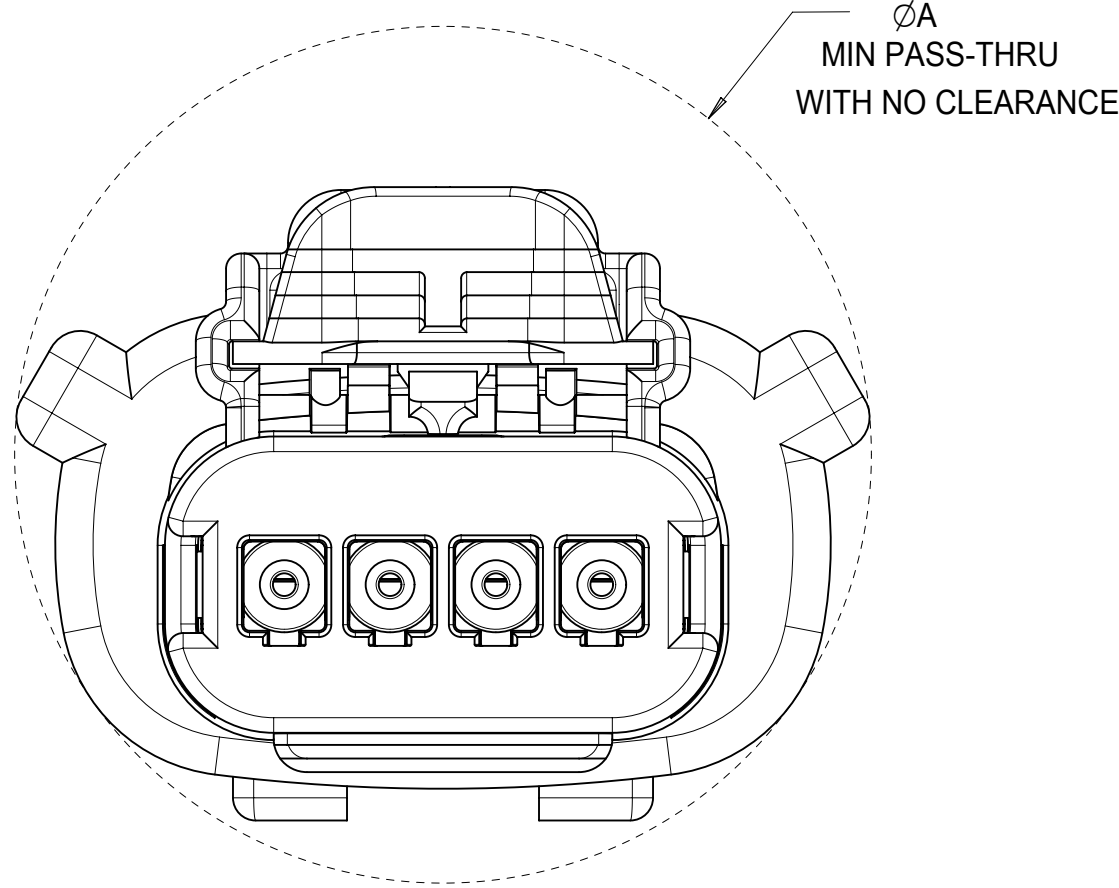
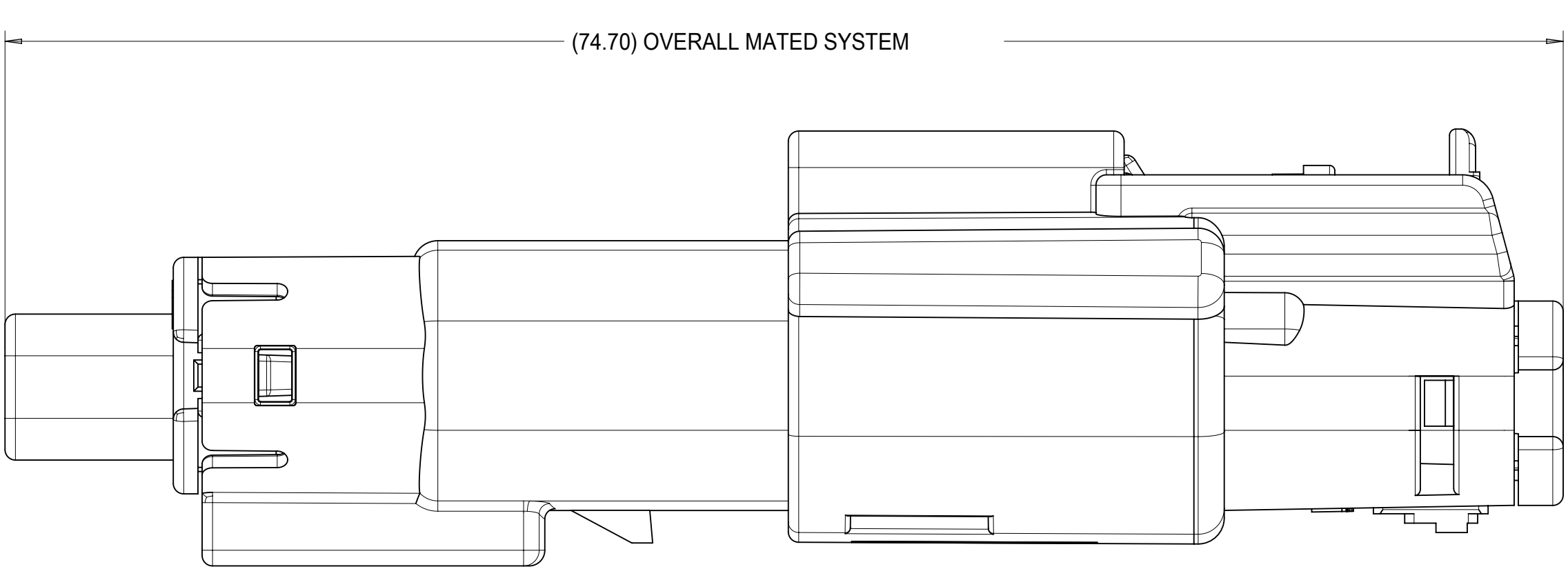
SECTION Z-Z



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

SECTION Y-Y

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				
QUALITY SYMBOLS		2017/10/30 2017/10/31		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex®										
 = 0	EC NO: 167392 DRWN: LSONG05 CHK'D: MIVANSLAMBROU REV APPR: MIVANSLAMBROU	K2	REV	mm		4:1		MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL, SHORTING BAR												
 = 0				DRWN BY		DATE														
 = 0				KCUNNINGHAM		2012/08/28														
 = 0				ANGULAR TOL ± 1.0 °		CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING										
 = 0				4 PLACES ±		MDICK		2013/03/22												
 = 0				3 PLACES ±		APPR BY		DATE												
 = 0				2 PLACES ± 0.1		VKOSHY		2012/09/04		SERIES 31280		MATERIAL NUMBER SEE BOM		CUSTOMER GENERAL MARKET						
 = 0				1 PLACE ± 0.3		DRAWING SIZE		THIRD ANGLE PROJECTION								DOCUMENT NUMBER SD-31280-200		DOC TYPE PSD		DOC PART 001
 = 0	0 PLACES ±		D																	
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																			



CHARTED DIMENSIONS	
CONFIGURATION	A
MX150 1X4 RECPT SEALED ASSY - STANDARD	29.14
MX150 1X4 RECPT SEALED ASSY - ERGO	29.33
MX150 1X4 RECPT SEALED ASSY - SHORTING (SHRT) BAR	29.14

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
	= 0	EC NO: 167392 DRWN: LSONG05 CHKD: REV/ APPR: MIVANSLAMBROU	2017/10/30 2017/10/31	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS		SCALE		molex® MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL, SHORTING BAR PRODUCT CUSTOMER DRAWING		
	= 0				mm		4:1				
	= 0				ANGULAR TOL ± 1.0 °		DRWN BY DATE				
	= 0				4 PLACES ±		KCUNNINGHAM 2012/08/28				
	= 0				3 PLACES ±		CHKD BY DATE				
	= 0				2 PLACES ± 0.1		MDICK 2013/03/22				
	= 0				1 PLACE ± 0.3		APPR BY DATE				
	= 0				0 PLACES ±		VKOSHY 2012/09/04				
	= 0				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		
	= 0						D				
RELEASE STATUS		P1	RELEASE DATE		31.10.2017		21:13:47				
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MOLEX ASSEMBLY PART NUMBER	HOUSING COLOR	KEYING OPTION	CAVITY NUMBER "X" INDICATES PLUGGED POSITION				NUMBER OF PLUGGED POSITIONS	MAT SEAL	SHORTING BAR CIRCUITS 1&2	SHORTING BAR CIRCUITS 3&4
			1	2	3	4				
31280-0436	BLACK	A					0	PRESENT	PRESENT	PRESENT
31280-0437	LIGHT GRAY	B					0	PRESENT	PRESENT	PRESENT
31280-0438	BROWN	C					0	PRESENT	PRESENT	PRESENT
31280-0439	GREEN	D					0	PRESENT	PRESENT	PRESENT
31280-0440	CUSTOM	TBD					0	PRESENT	PRESENT	PRESENT
31280-0441	BLACK	A			X	X	2	PRESENT	PRESENT	NONE
31280-0442	BLACK	A					0	NONE	PRESENT	PRESENT
31280-0443	LIGHT GRAY	B					0	NONE	PRESENT	PRESENT
31280-0444	BROWN	C					0	NONE	PRESENT	PRESENT
31280-0445	GREEN	D					0	NONE	PRESENT	PRESENT
31280-0446	BLACK	A					0	PRESENT	PRESENT	NONE
31280-0447	LIGHT GRAY	B					0	PRESENT	NONE	PRESENT
31280-0448	YELLOW	A					0	PRESENT	PRESENT	PRESENT
31280-0449	YELLOW	A				X	1	PRESENT	PRESENT	NONE
31280-0450	DARK GRAY	C					0	PRESENT	PRESENT	PRESENT
31280-0451	STONE GRAY	D					0	PRESENT	PRESENT	PRESENT

MOLEX ASSEMBLY PART NUMBER	HOUSING COLOR	KEYING OPTION	CAVITY NUMBER "X" INDICATES PLUGGED POSITION				NUMBER OF PLUGGED POSITIONS	MAT SEAL	SHORTING BAR CIRCUITS 1&2	SHORTING BAR CIRCUITS 3&4
			1	2	3	4				
31280-4436	BLACK	A					0	PRESENT	PRESENT	PRESENT
31280-4437	LIGHT GRAY	B					0	PRESENT	PRESENT	PRESENT
31280-4438	BROWN	C					0	PRESENT	PRESENT	PRESENT
31280-4439	GREEN	D					0	PRESENT	PRESENT	PRESENT
31280-4440	CUSTOM	TBD					0	PRESENT	PRESENT	PRESENT
31280-4441	BLACK	A			X	X	2	PRESENT	PRESENT	NONE
31280-4442	BLACK	A					0	NONE	PRESENT	PRESENT
31280-4443	LIGHT GRAY	B					0	NONE	PRESENT	PRESENT
31280-4444	BROWN	C					0	NONE	PRESENT	PRESENT
31280-4445	GREEN	D					0	NONE	PRESENT	PRESENT
31280-4446	BLACK	A					0	PRESENT	PRESENT	NONE
31280-4447	LIGHT GRAY	B					0	PRESENT	NONE	PRESENT
31280-4448	YELLOW	A					0	PRESENT	PRESENT	PRESENT
31280-4449	YELLOW	A				X	1	PRESENT	PRESENT	NONE
31280-4450	DARK GRAY	C					0	PRESENT	PRESENT	PRESENT
31280-4451	STONE GRAY	D					0	PRESENT	PRESENT	PRESENT

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
	= 0	EC NO: 167392 DRWN: LSONG05 CHKD: MVANSLAMBROU REV: APPR: 2017/10/30 2017/10/31	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS		SCALE								
	= 0			mm		1:1								
	= 0			DRWN BY		DATE								
	= 0			ANGULAR TOL ± 1.0 °		KCUNNINGHAM		2012/08/28		MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL, SHORTING BAR				
	= 0			4 PLACES ±		CHK'D BY		DATE						
	= 0			3 PLACES ±		MDICK		2013/03/22						
	= 0			2 PLACES ± 0.1		APPR BY		DATE		PRODUCT CUSTOMER DRAWING				
	= 0			1 PLACE ± 0.3		VKOSHY		2012/09/04						
	= 0			0 PLACES ±		DRAWING SIZE		THIRD ANGLE PROJECTION						
	= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		D				SERIES		MATERIAL NUMBER		CUSTOMER	
K2				REV		31280		SEE BOM		GENERAL MARKET				
DOCUMENT NUMBER						SD-31280-200		DOC TYPE		DOC PART		SHEET NUMBER		
								PSD		001		5 OF 5		

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2	CONFIGURATIONS
3-4	KEY CONFIGURATIONS
5	RECEPTACLE CONNECTOR ASSEMBLY
6	BACKSHELL NOTES
7	BACKSHELL
8	BACKSHELL CONFIGURATIONS

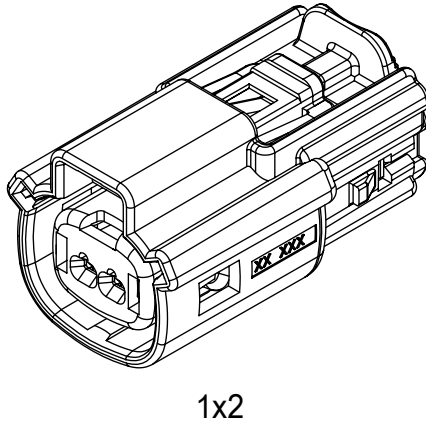
NOTES: VALID UNLESS OTHERWISE SPECIFIED

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)

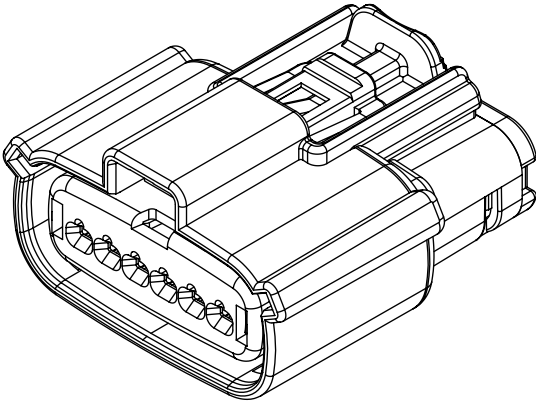
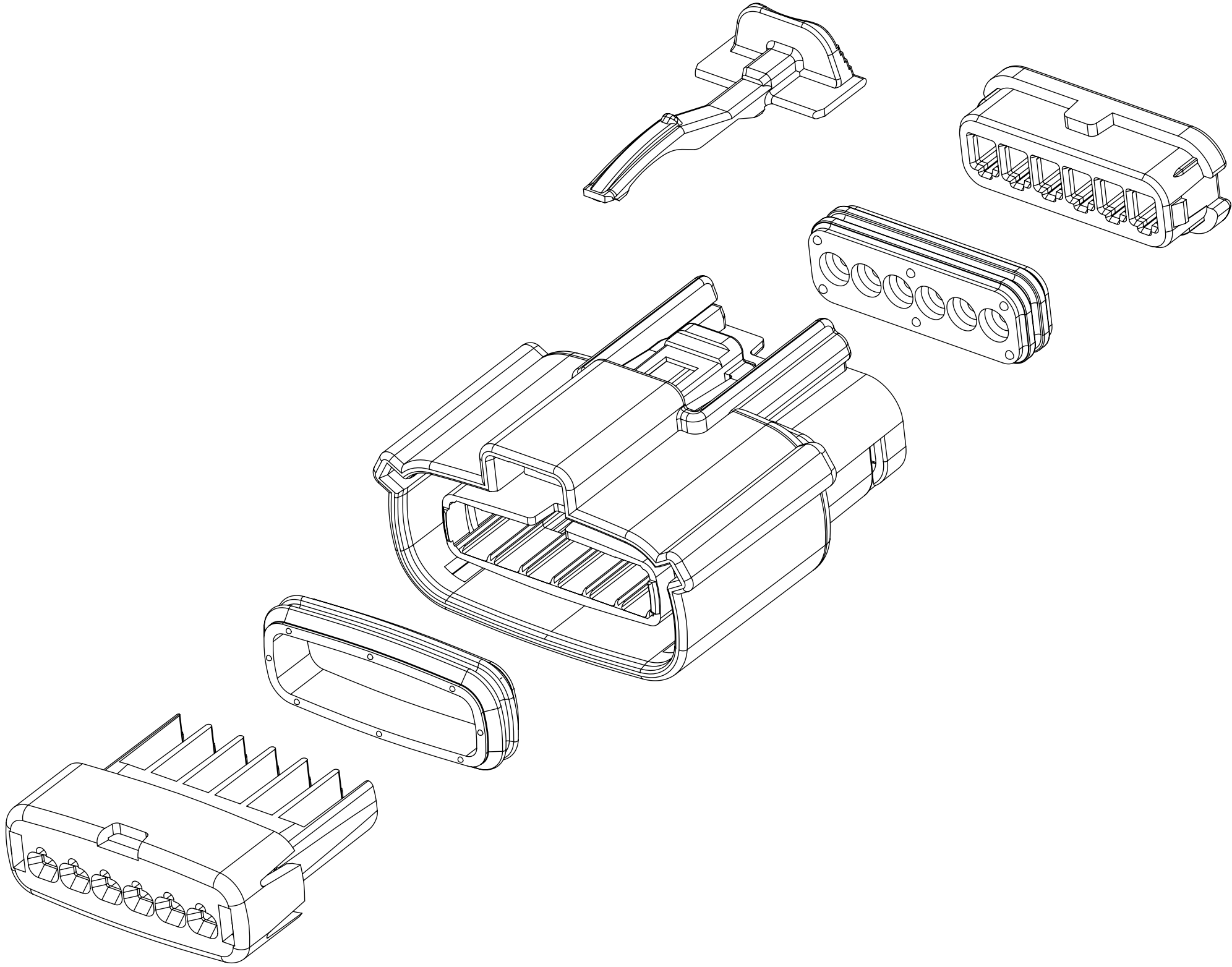
2. DESIGN - MATERIALS:
a. FOR BILL OF MATERIALS SEE:
-STANDARD CONFIGURATION SD-33471-0002
-UL V0 CONFIGURATION SD-160105-0002
3. DESIGN - GEOMETRY:
a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS. DIMENSIONAL INFORMATION NOT SHOWN 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

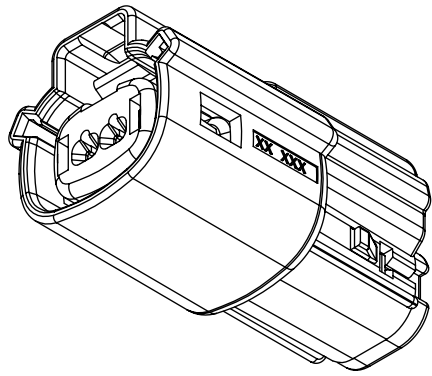
A1	UPDATED THE DRAWING FRAME
A	MINOR GEOMETRY CHANGE FOR UL V0
2	UPDATE VIEWSETS
1	INITIAL RELEASE
REV	REV DESCRIPTION

FUNCTIONAL SYMBOLS FA = 0 FC = 0 FP = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				CURRENT REV DESC:				molex MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SD-33471-0001 DOC TYPE PSD DOC PART 001 REVISION A1			
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	ANGULAR TOL ± 1.0 °				THIRD ANGLE PROJECTION				CUSTOMER GENERAL MARKET			
	4 PLACES		±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SHEET NUMBER 1 OF 8			
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1 PLACE		± 0.2										
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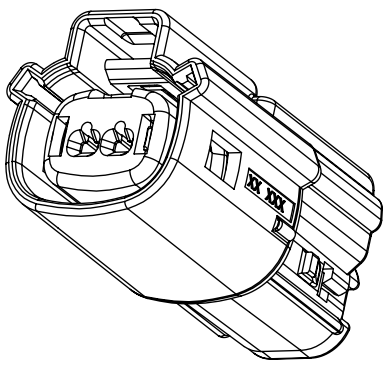
DOCUMENT STATUS	P1	RELEASE DATE	2020/08/26	07:23:52
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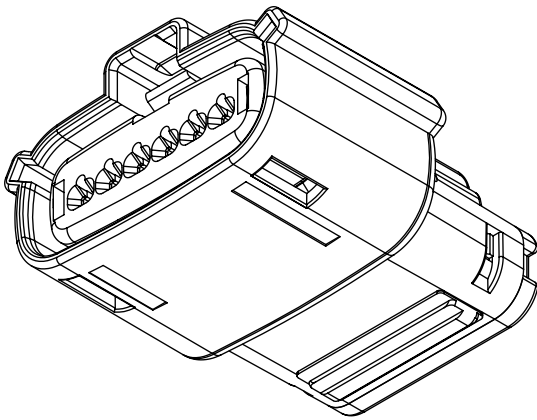
CONFIGURATIONS



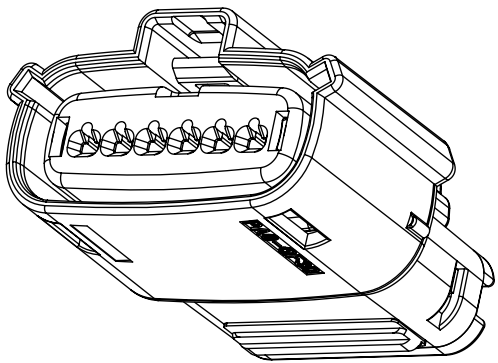
1x2 - STD



1x2 - UL V0*



1x6 - STD



1x6 - UL V0*

*MINOR GEOMETRY DIFFERENCE THAN STANDARD CONFIGURATION
SEE NOTES 1 & 2 FOR MORE INFORMATION

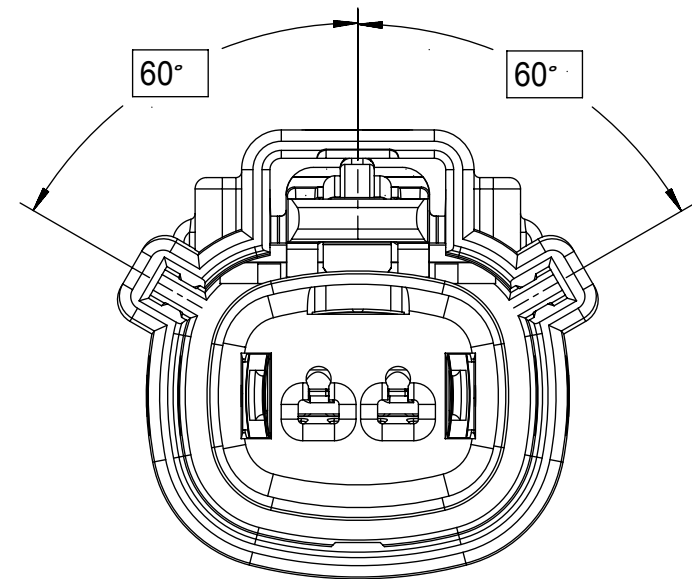
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						D-SIZE		33471		SEE NOTE 2a		GENERAL MARKET		2 OF 8		
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molex				
MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL				
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DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
SD-33471-0001		PSD	001	A1

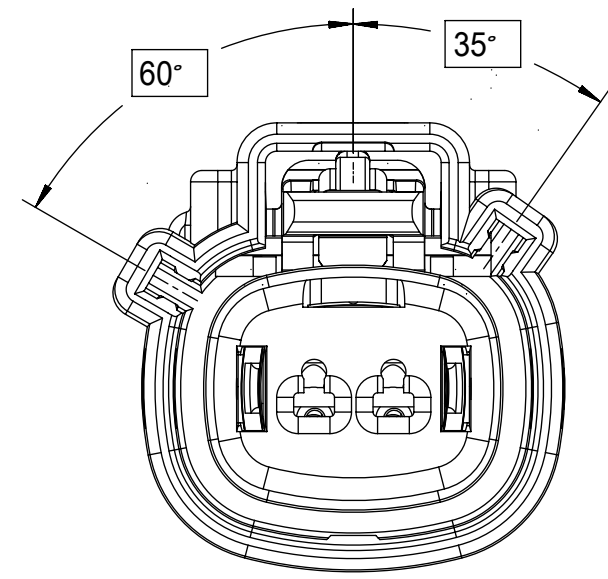
SHEET DESCRIPTION
KEY CONFIGURATIONS

KEY CONFIGURATIONS

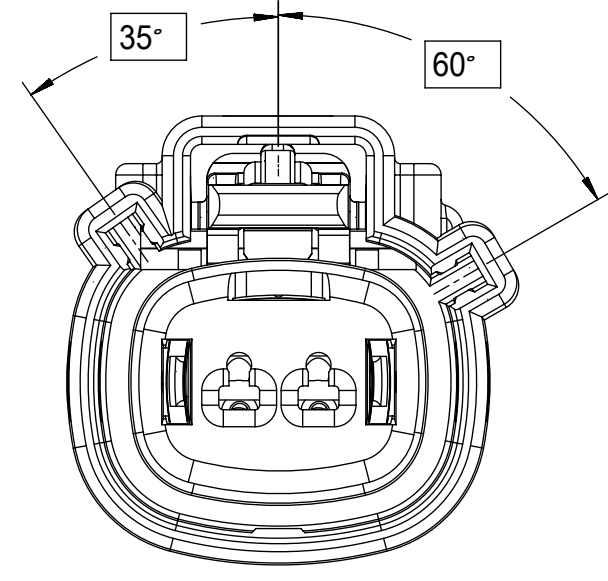
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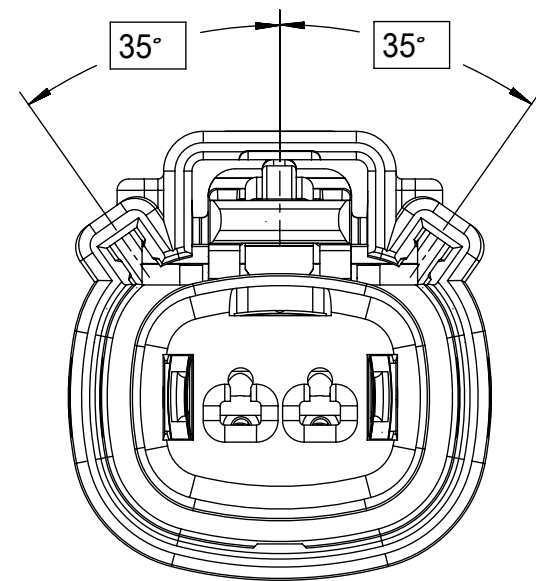
KEY A



KEY B



KEY C



KEY D

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
F A = 0 F E = 0 F P = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC:		molex MX150 RCPT SINGLE ROW SEALED ASSY MAT SEAL							
mm		3:1													
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		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		3 OF 8	

SHEET DESCRIPTION
KEY CONFIGURATIONS CONT.

SHEET DESCRIPTION
KEY CONFIGURATIONS CONT.

1X6

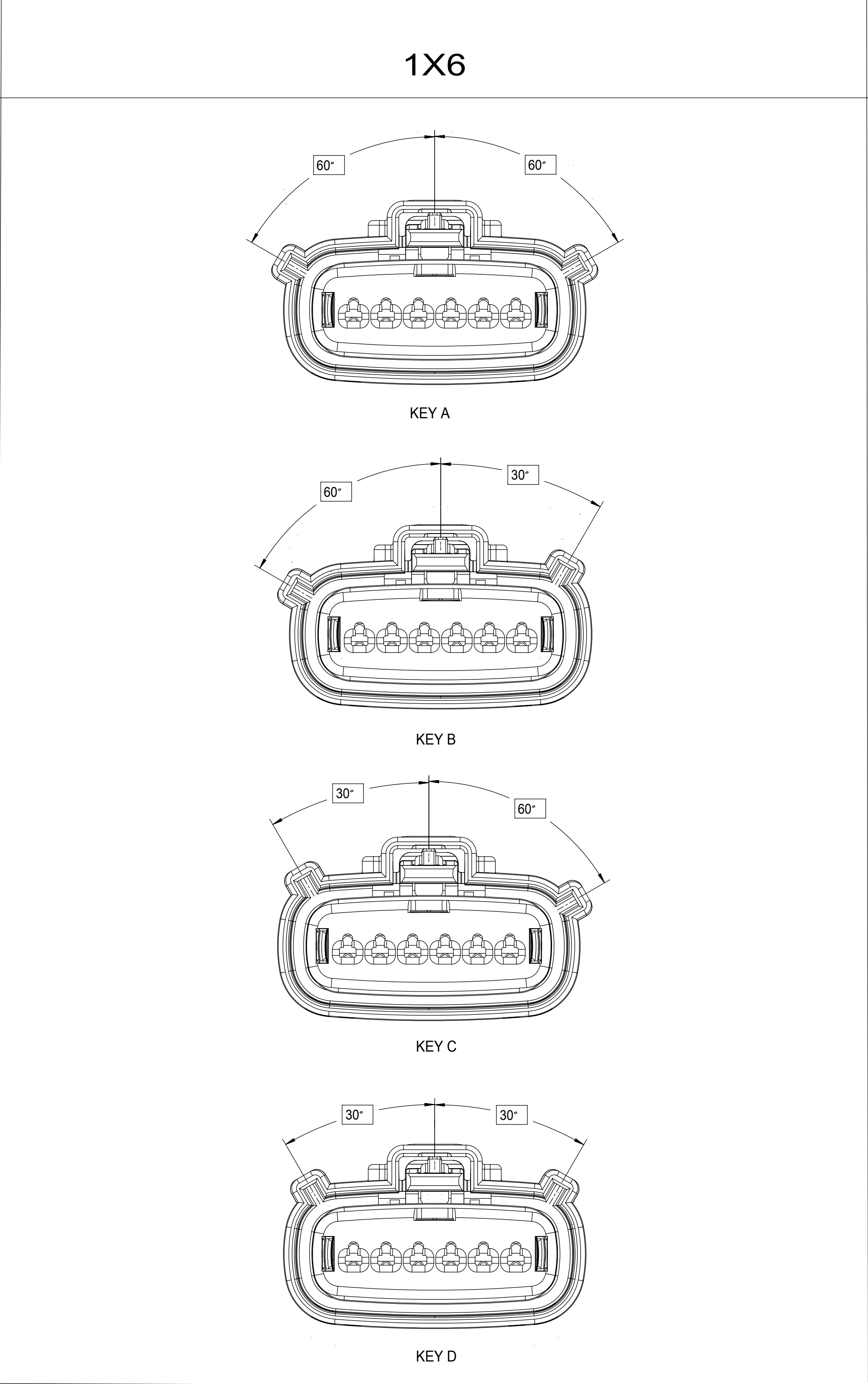
The image displays four technical drawings of a 1X6 LED light fixture, each showing a different beam angle configuration. The fixture is a rectangular unit with a central lens and six LED chips. The beam angles are indicated by arrows and labels: KEY A (60°/60°), KEY B (60°/30°), KEY C (30°/60°), and KEY D (30°/30°).

KEY A

KEY B

KEY C

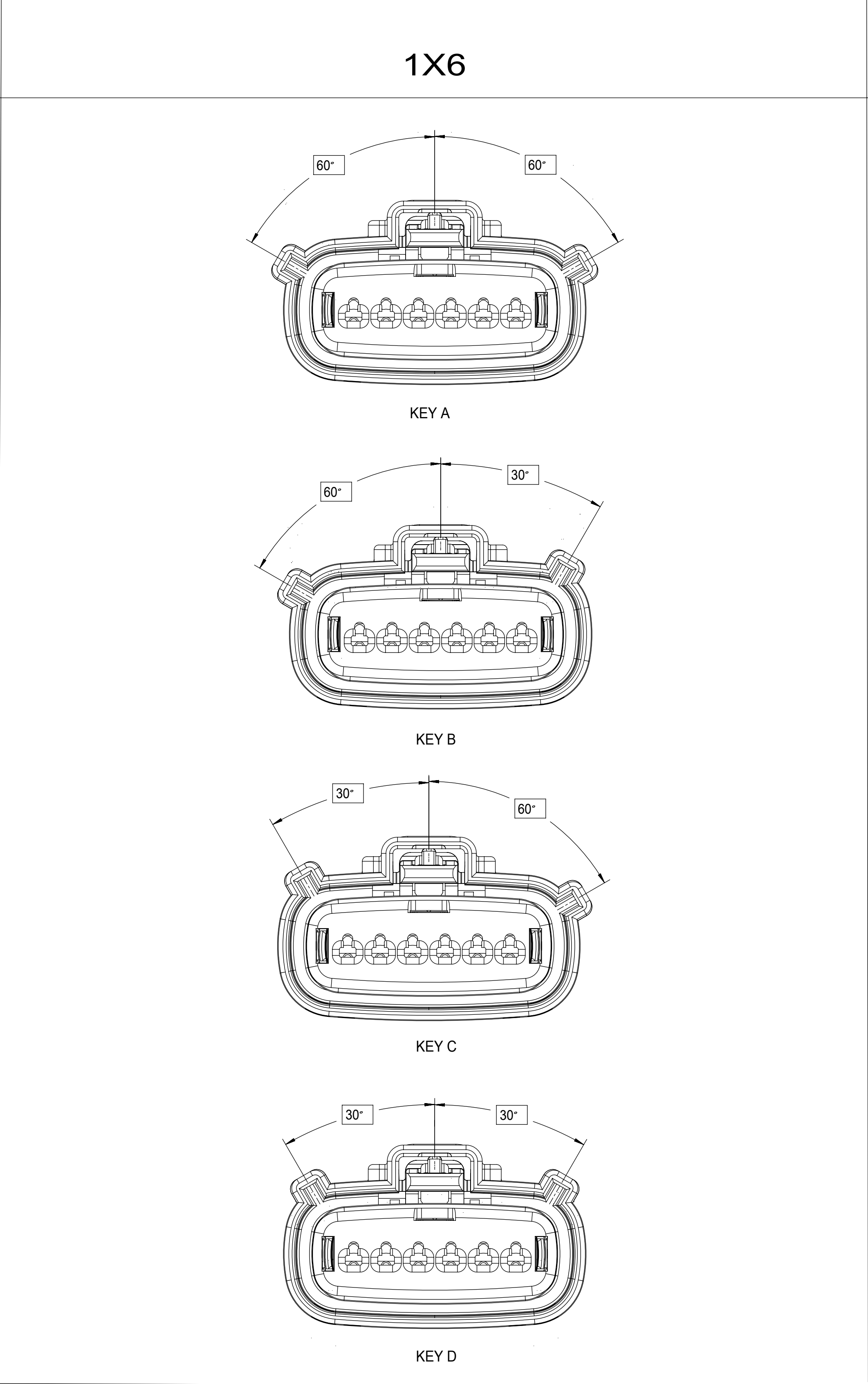
KEY D



1X6

The image displays four technical diagrams of a 1X6 LED light bar, each showing a different beam angle configuration. The light bar has a rectangular body with rounded ends and a central mounting bracket. Inside the body, six LED chips are visible, arranged in a horizontal row. The diagrams are labeled KEY A, KEY B, KEY C, and KEY D.

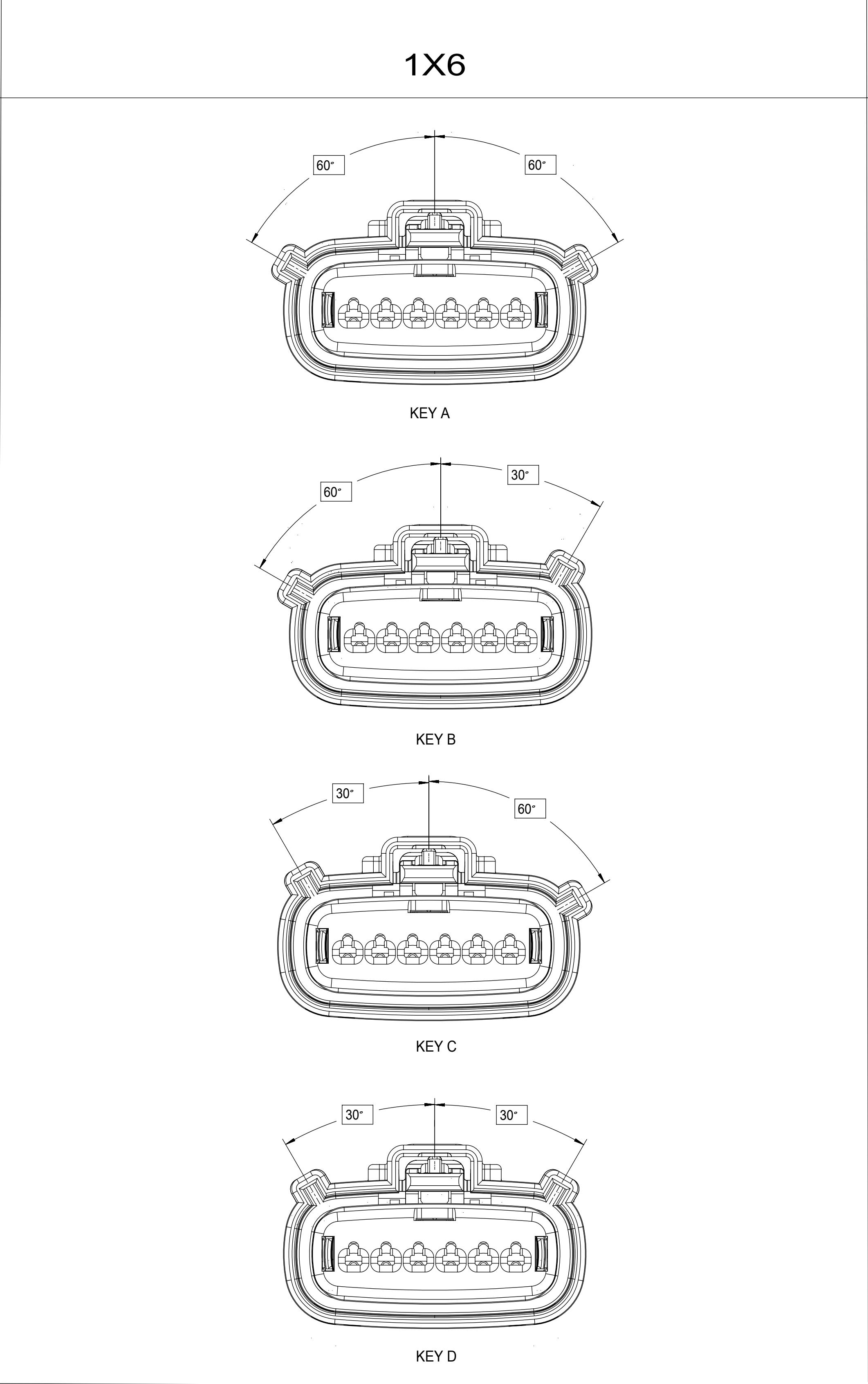
- KEY A:** Shows a beam angle of 60° on both the left and right sides.
- KEY B:** Shows a beam angle of 60° on the left side and 30° on the right side.
- KEY C:** Shows a beam angle of 30° on the left side and 60° on the right side.
- KEY D:** Shows a beam angle of 30° on both the left and right sides.



1X6

The image displays four technical diagrams of a 1X6 LED light bar, each showing a different beam angle configuration. The light bar has a rectangular body with rounded ends and a central mounting bracket. Inside the body, six LED chips are visible, arranged in a horizontal row. The diagrams are labeled KEY A, KEY B, KEY C, and KEY D.

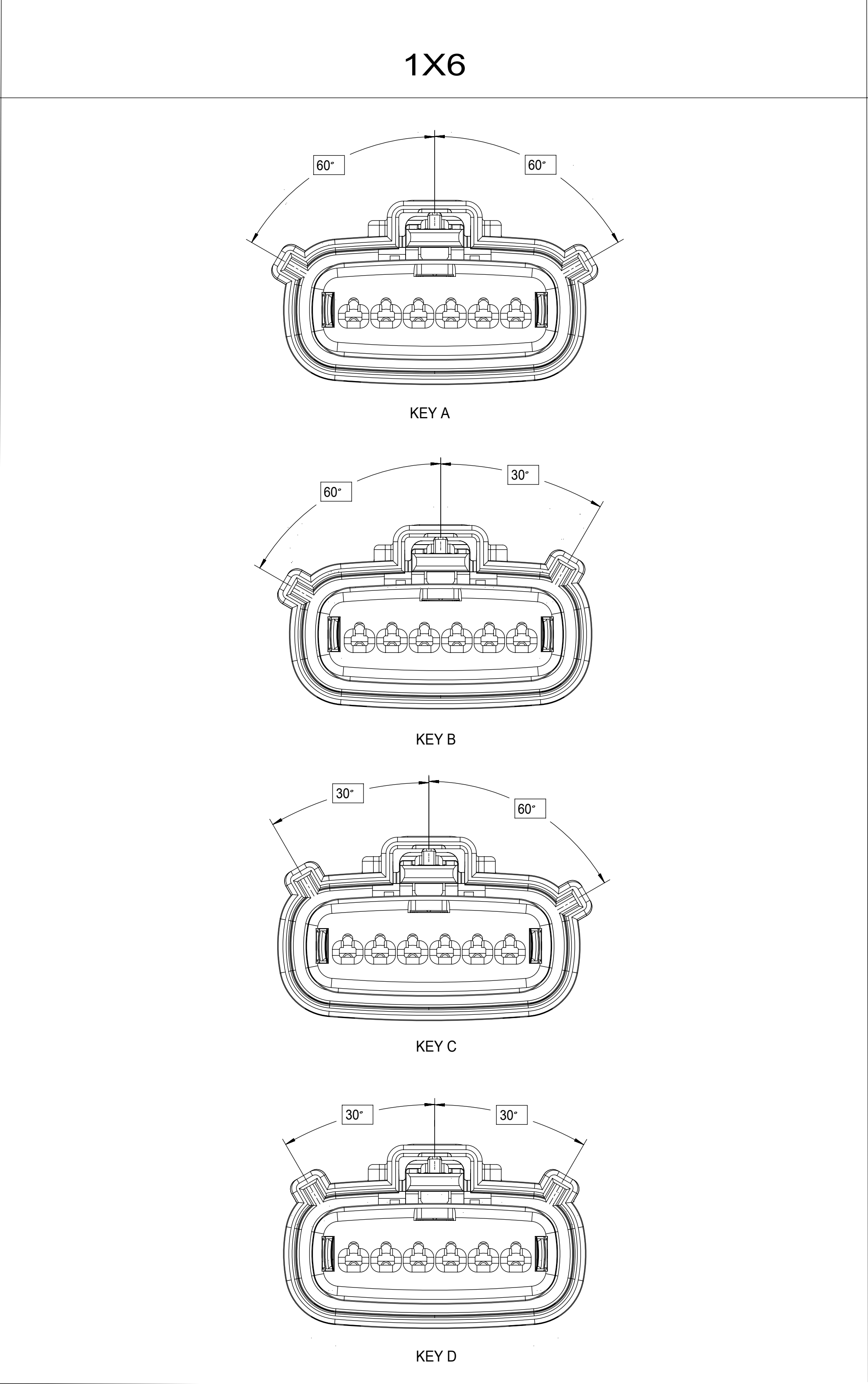
- KEY A:** Shows a beam angle of 60° on both the left and right sides.
- KEY B:** Shows a beam angle of 60° on the left side and 30° on the right side.
- KEY C:** Shows a beam angle of 30° on the left side and 60° on the right side.
- KEY D:** Shows a beam angle of 30° on both the left and right sides.



1X6

The image displays four technical diagrams of a 1X6 LED light bar, each showing a different beam angle configuration. The light bar has a rectangular body with rounded ends and a central mounting bracket. Inside the body, six LED chips are visible, arranged in a horizontal row. The diagrams are labeled KEY A, KEY B, KEY C, and KEY D.

- KEY A:** Shows a beam angle of 60° on both the left and right sides.
- KEY B:** Shows a beam angle of 60° on the left side and 30° on the right side.
- KEY C:** Shows a beam angle of 30° on the left side and 60° on the right side.
- KEY D:** Shows a beam angle of 30° on both the left and right sides.



1X6

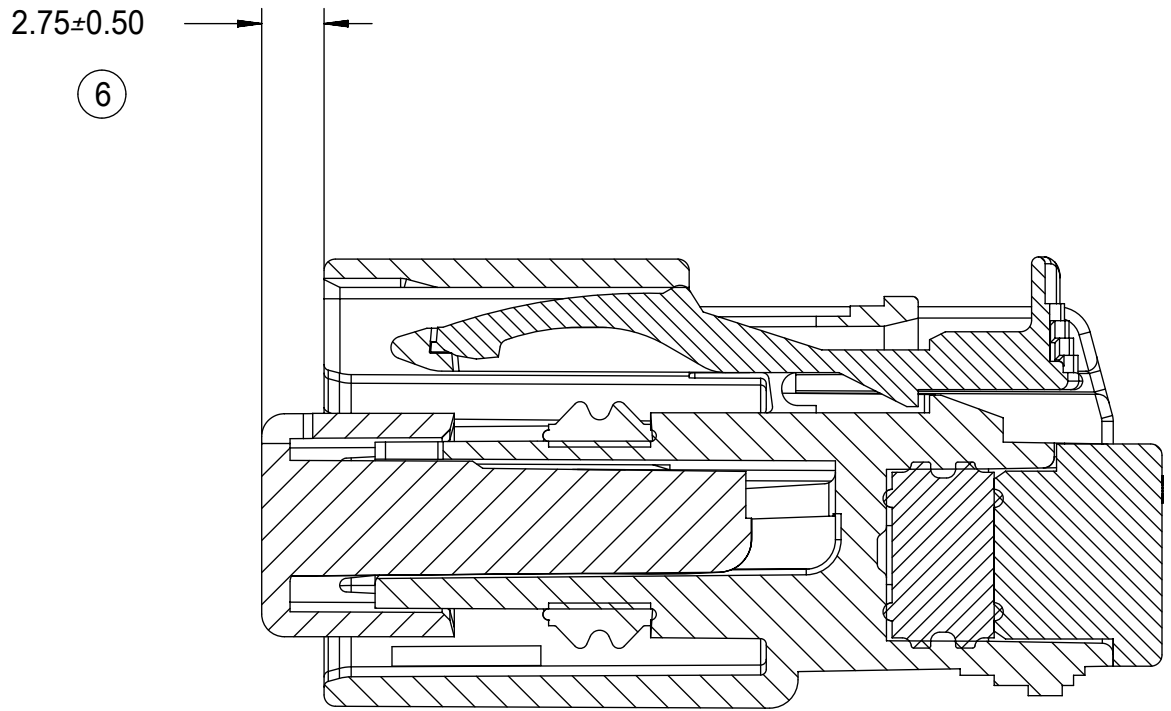
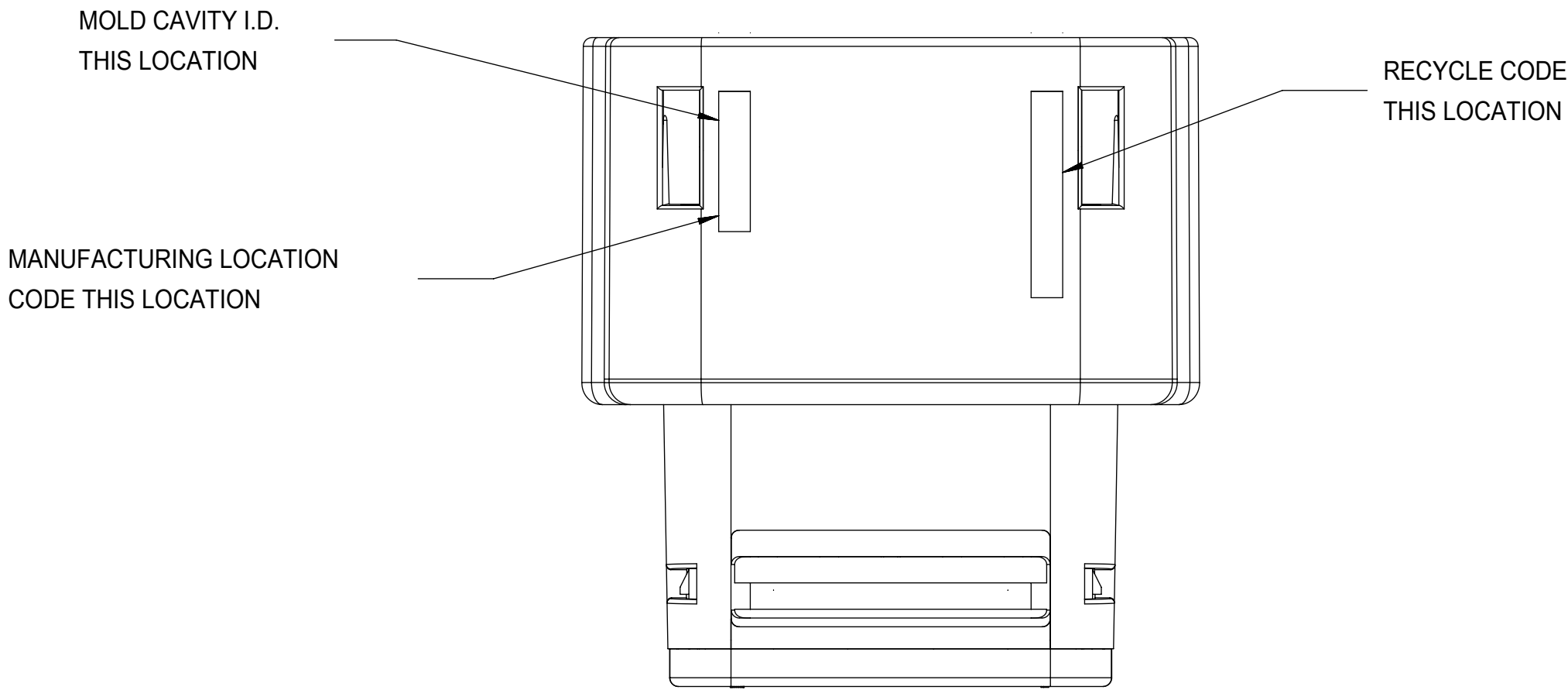
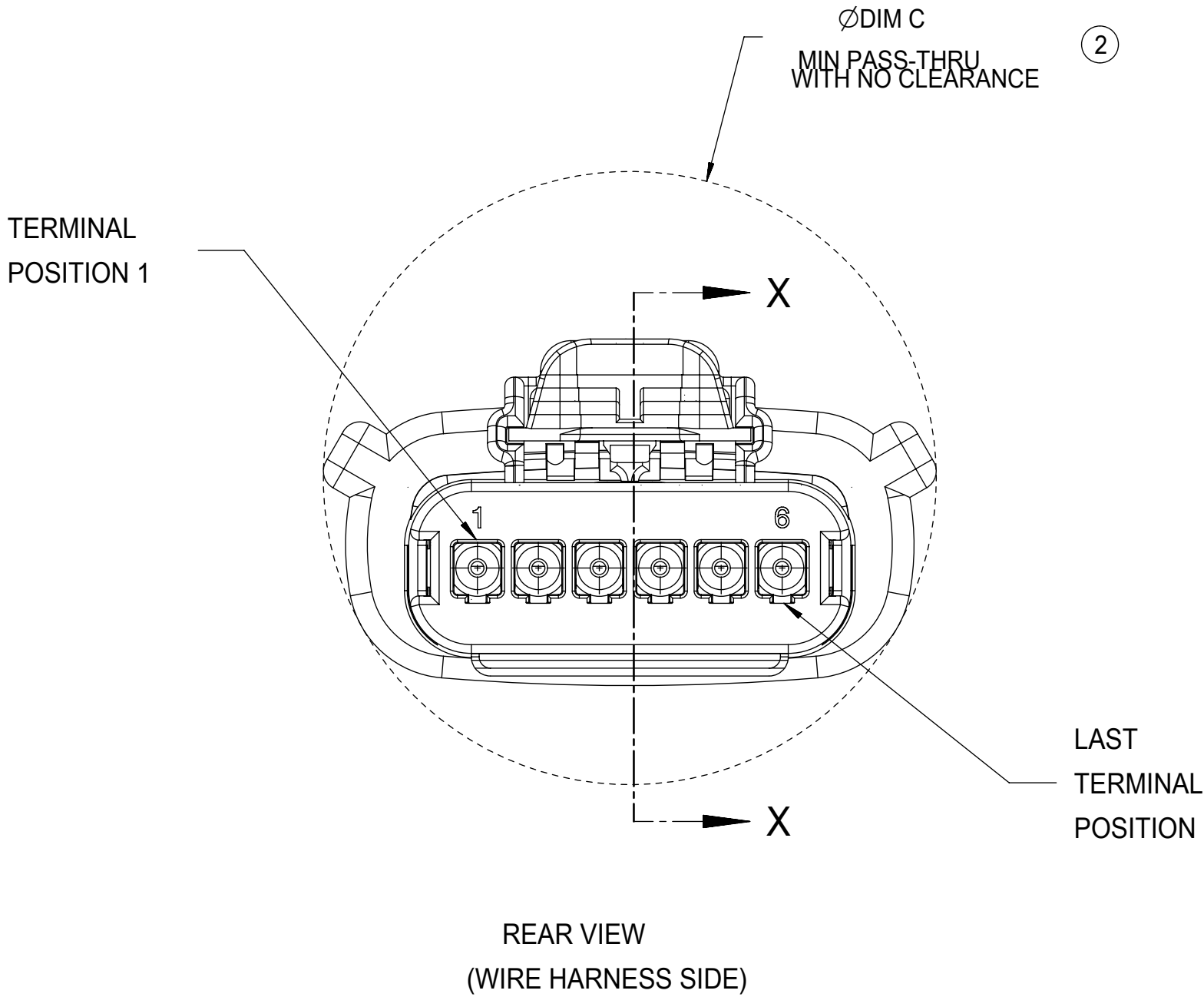
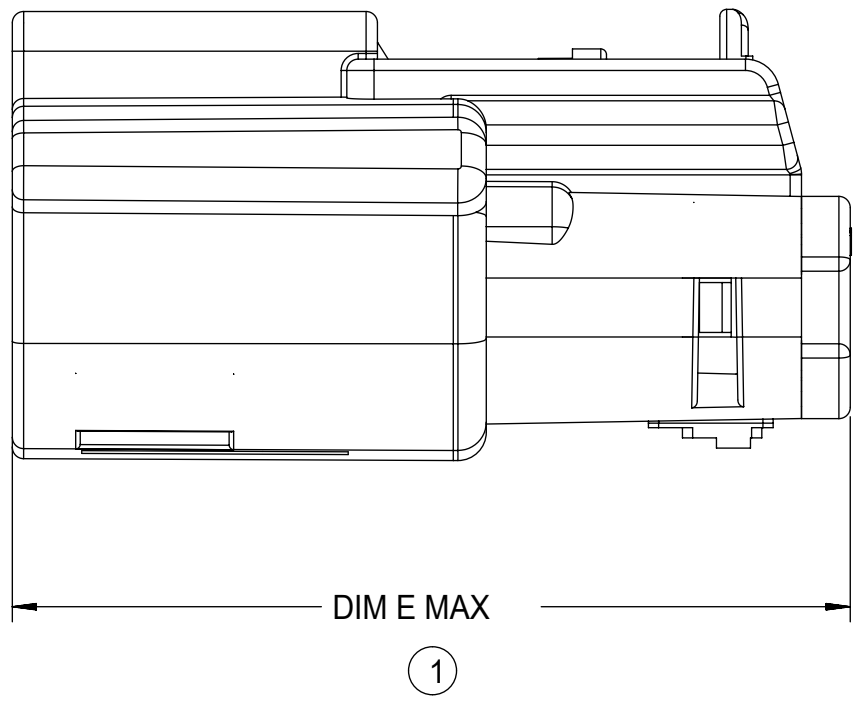
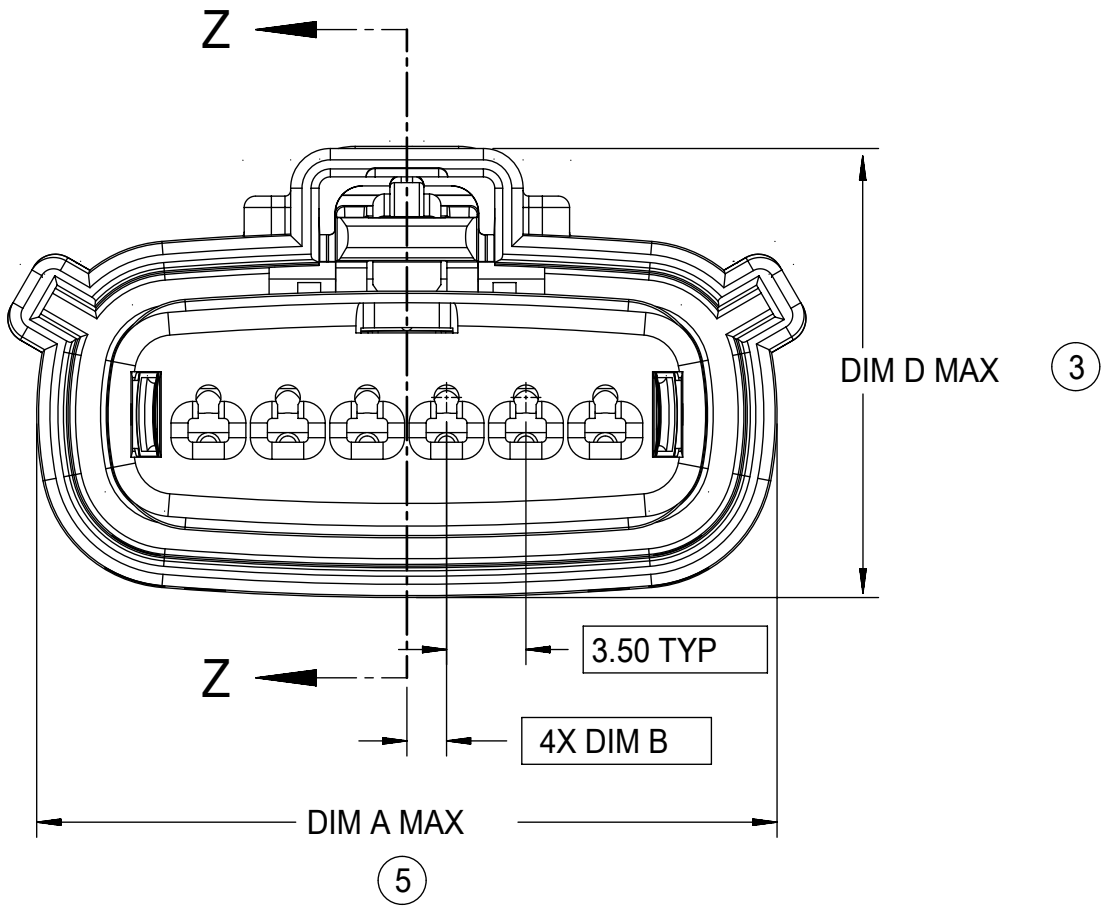
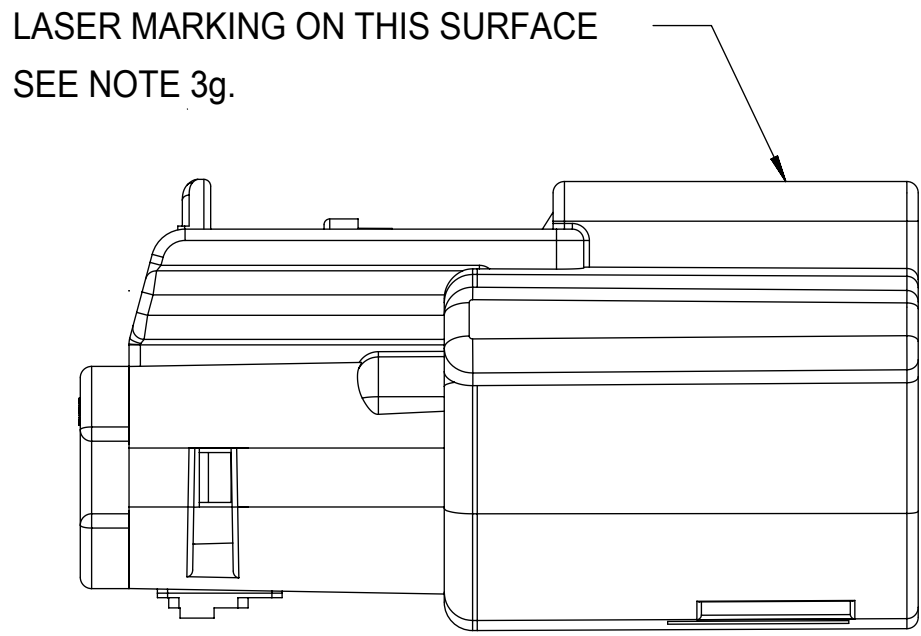
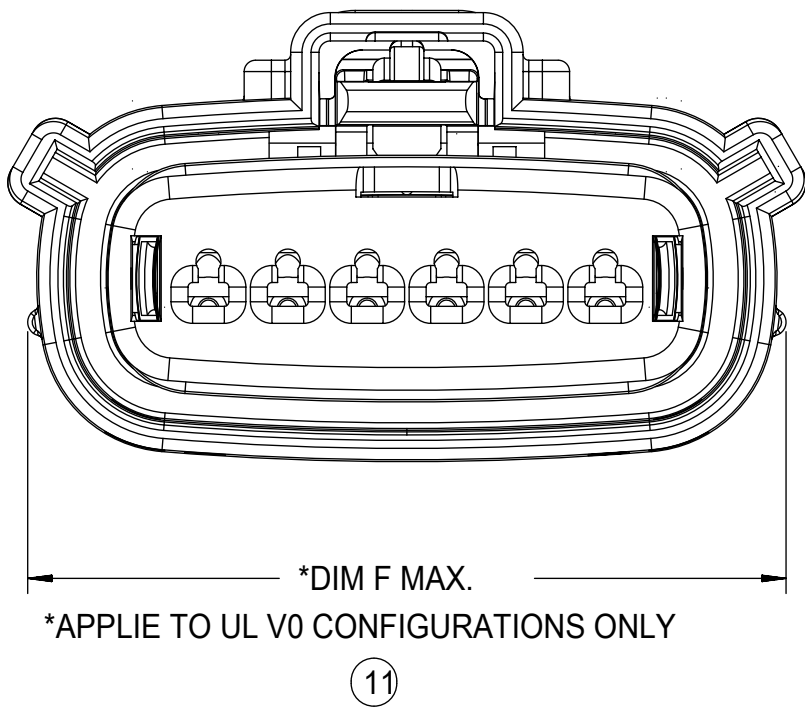
The image displays four technical diagrams of a 1X6 LED light bar, each showing a different beam angle configuration. The light bar has a rectangular body with rounded ends and a central mounting bracket. Inside the body, six LED chips are visible, arranged in a horizontal row. The diagrams are labeled KEY A, KEY B, KEY C, and KEY D.

- KEY A:** Shows a beam angle of 60° on both the left and right sides.
- KEY B:** Shows a beam angle of 60° on the left side and 30° on the right side.
- KEY C:** Shows a beam angle of 30° on the left side and 60° on the right side.
- KEY D:** Shows a beam angle of 30° on both the left and right sides.

FUNCTIONAL SYMBOLS FA = 0 FC = 0 FP = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
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	GENERAL TOLERANCES (UNLESS SPECIFIED)																
	ANGULAR TOL ± 1.0 °																
	4 PLACES		±							PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SD-33471-0001 DOC TYPE PSD DOC PART 001 REVISION A1							
	3 PLACES		±														
	2 PLACES		± 0.1														
	1 PLACE		± 0.2														
	0 PLACES		±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING D-SIZE SERIES 33471 MATERIAL NUMBER SEE NOTE 2a CUSTOMER GENERAL MARKET SHEET NUMBER 4 OF 8												

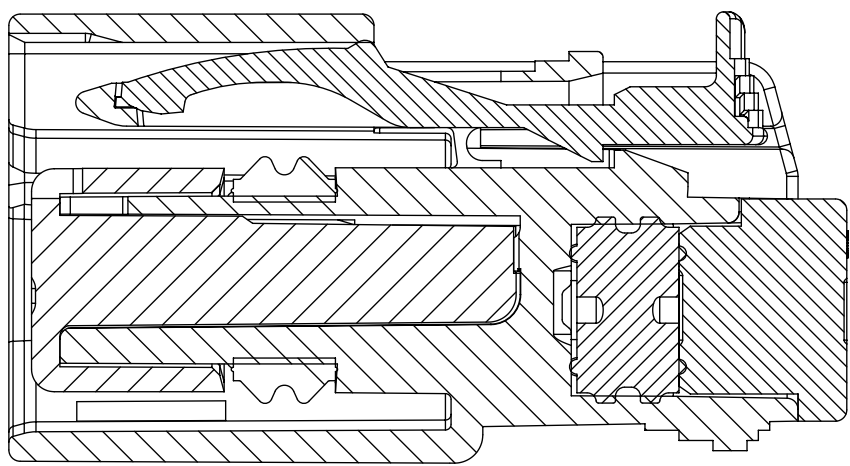
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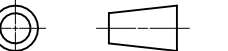
RECEPTACLE CONNECTOR ASSEMBLY - STD



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

SECTION Z-Z



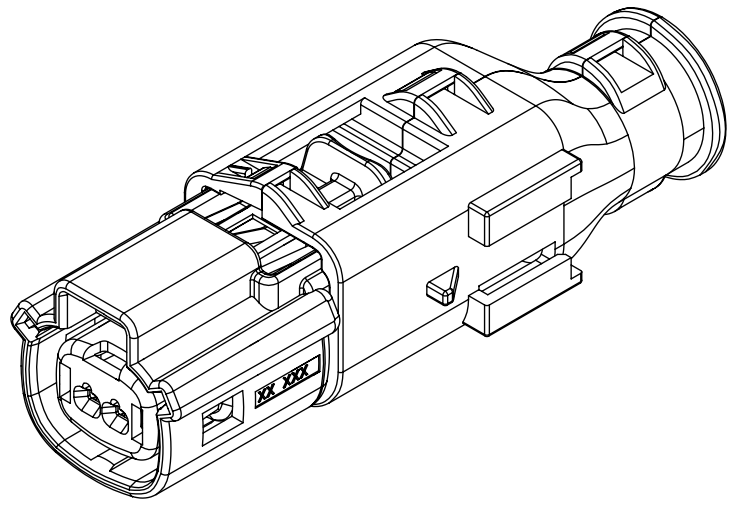
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	mm		3:1													
	GENERAL TOLERANCES (UNLESS SPECIFIED)															
	ANGULAR TOL		± 1.0 °		PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER SD-33471-0001 DOC TYPE PSD DOC PART 001 REVISION A1											
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DIVISIONAL SYMBOLS	1 PLACE		± 0.2		MATERIAL NUMBER SEE NOTE 2a CUSTOMER GENERAL MARKET SHEET NUMBER 5 OF 8											
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	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION										DRAWING D-SIZE		SERIES 33471	
																

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

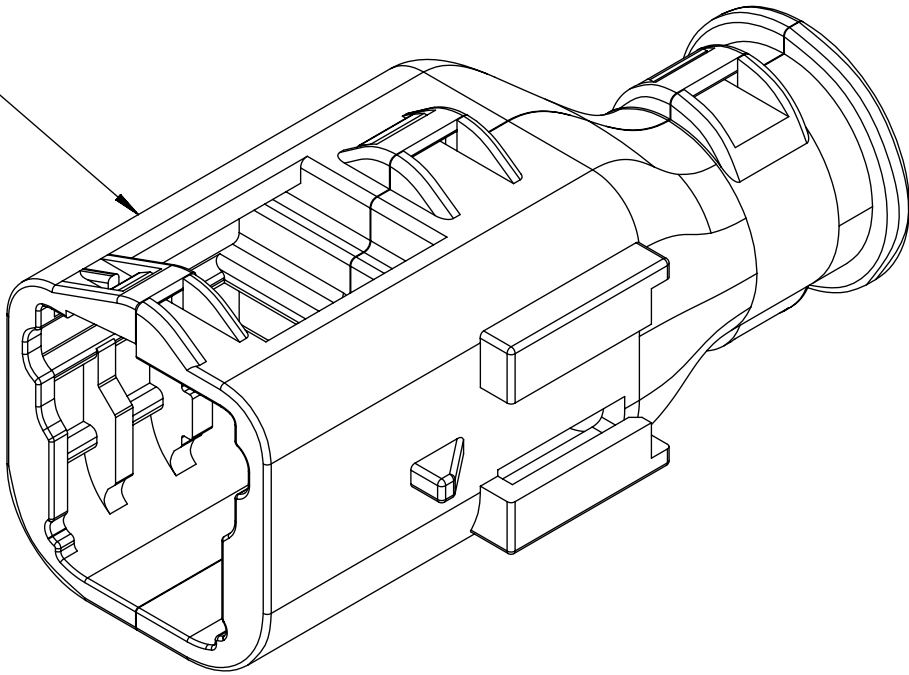
34949-XXXX

- 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

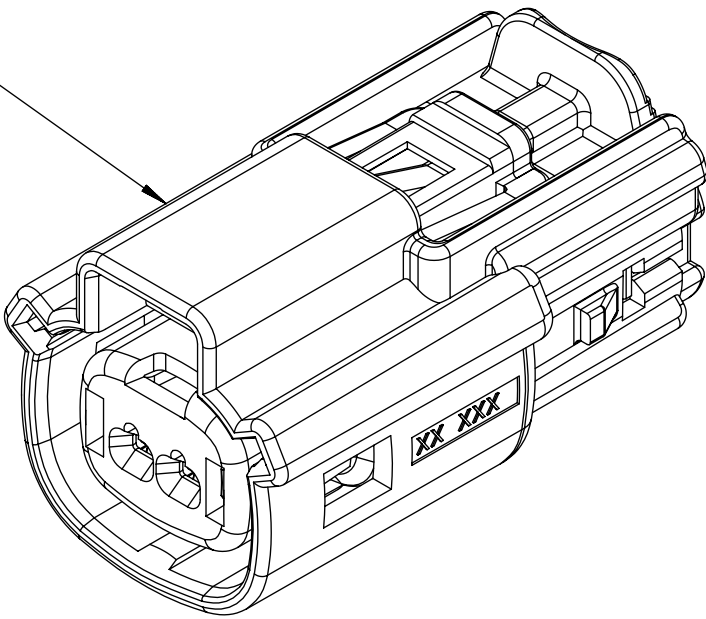
- BACKSHELL FEATURES
- 1 - WITH RIBS
 - 2 - WITHOUT RIBS

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

BACKSHELL (BKS)



RECEPTACLE SEALED ASSEMBLY

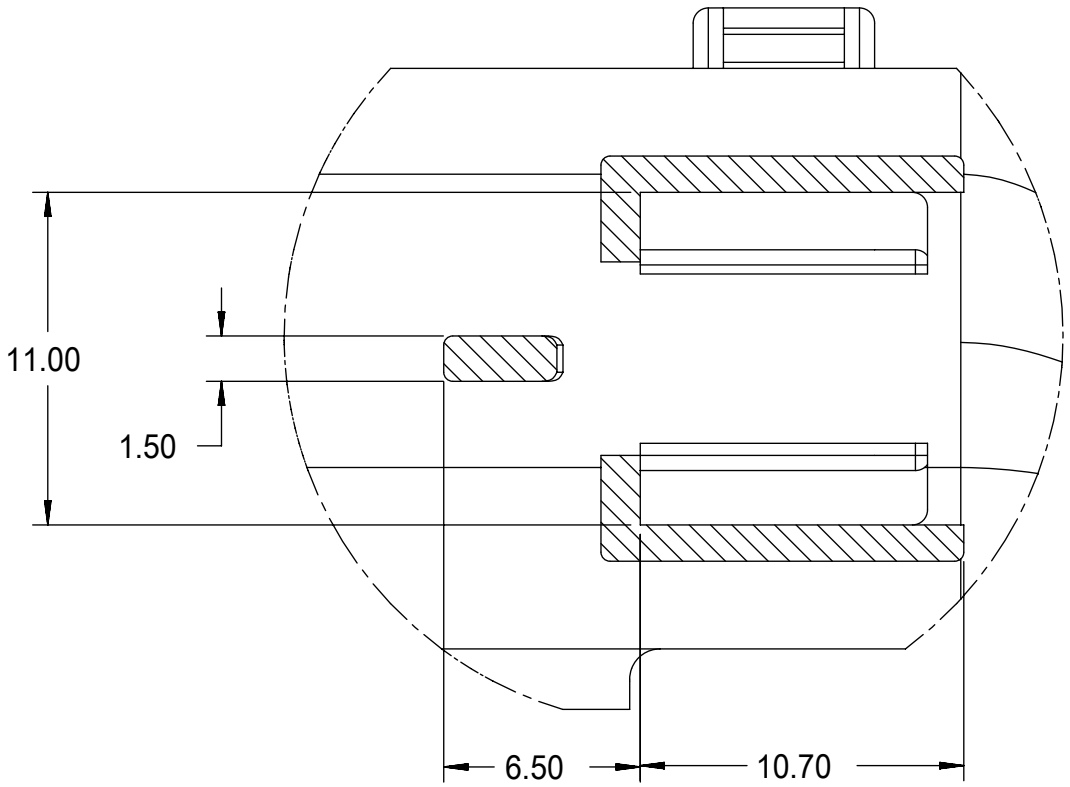
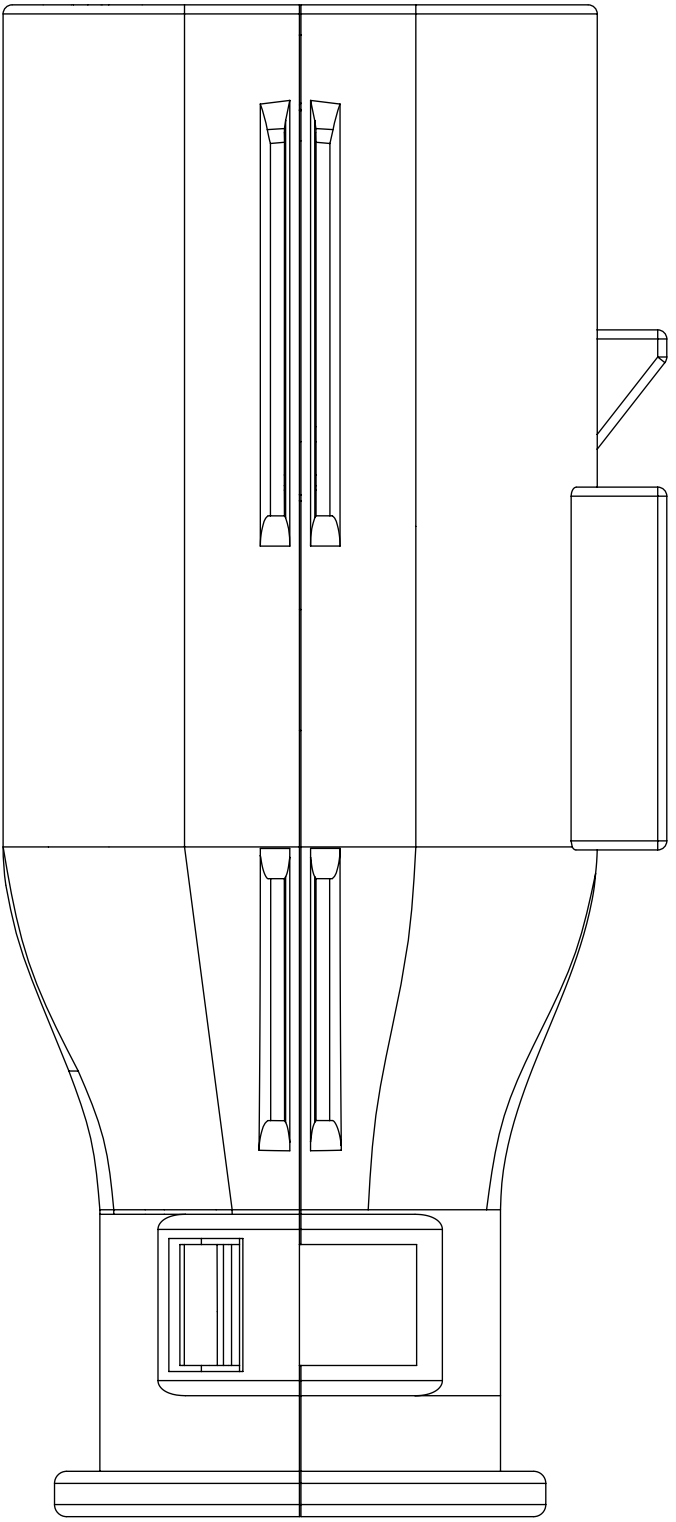
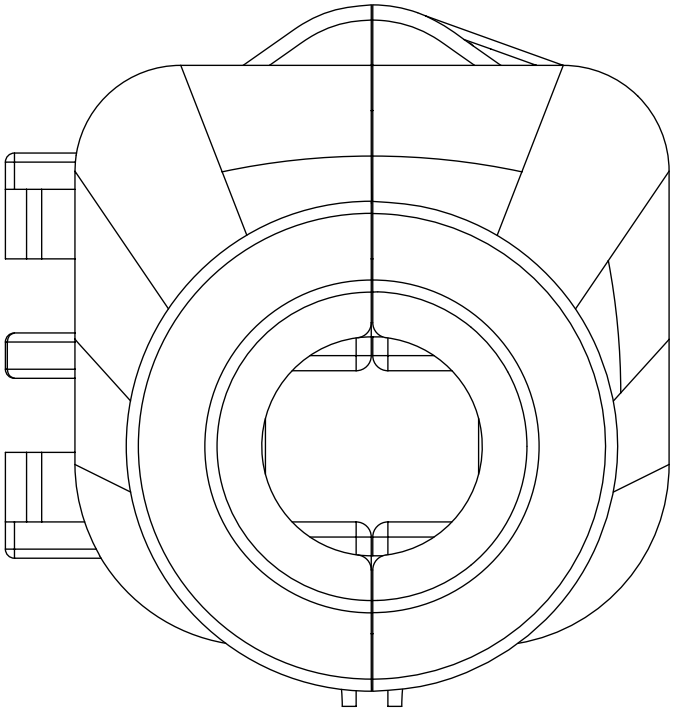
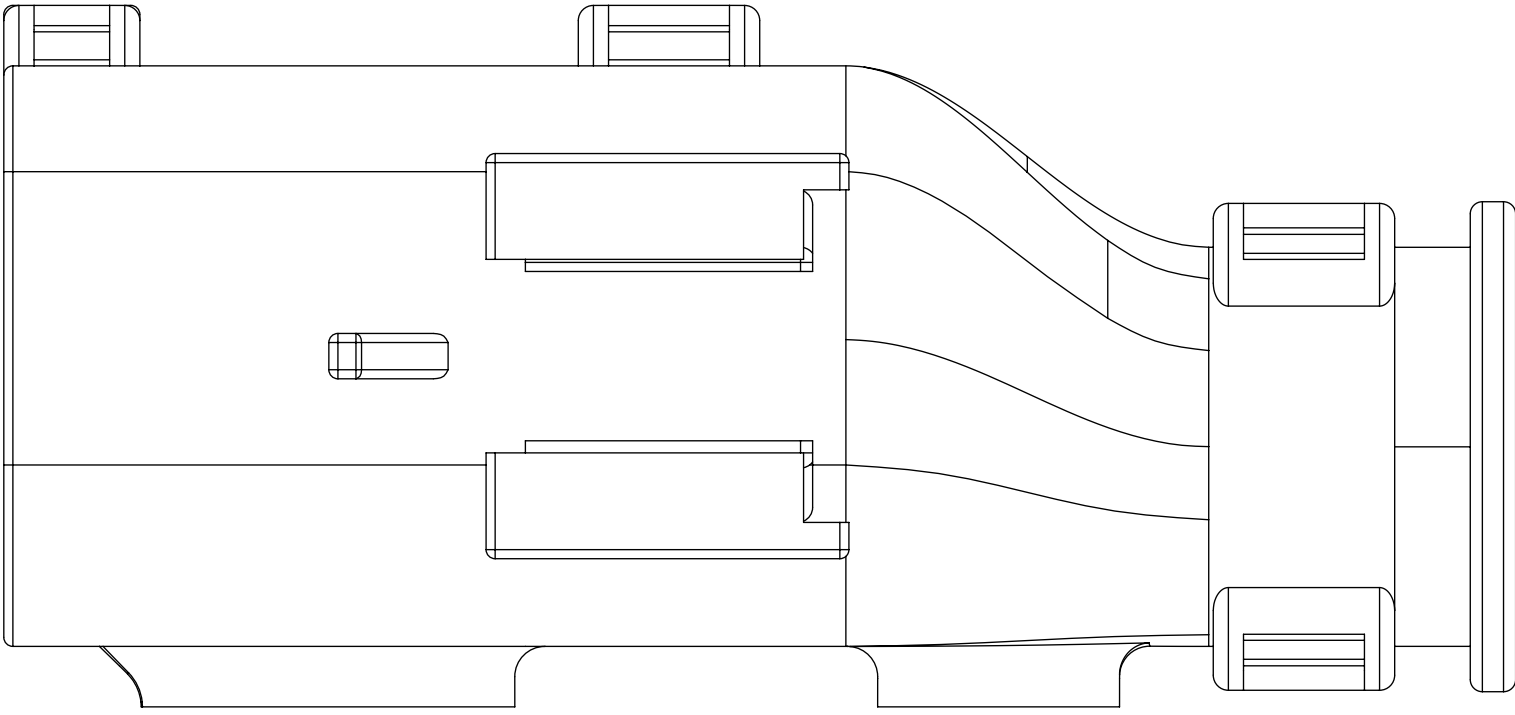
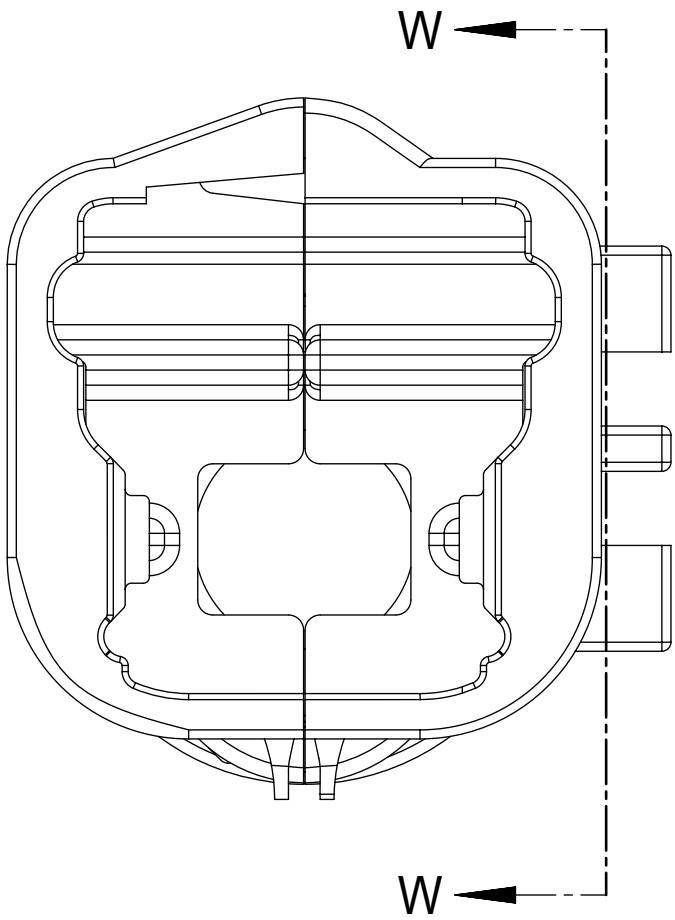
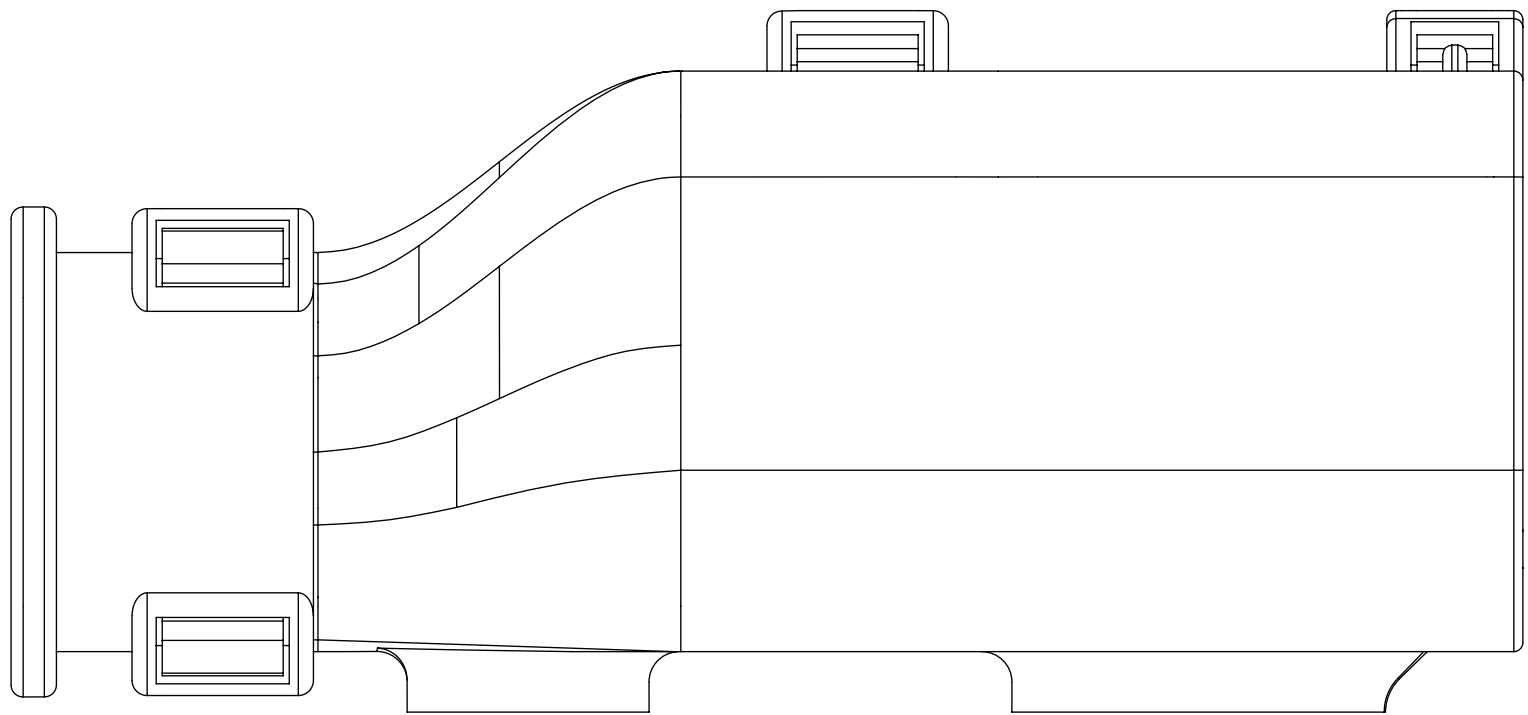


FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
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				D-SIZE		33471		SEE NOTE 2a		GENERAL MARKET		6 OF 8		

DOCUMENT STATUS	P1	RELEASE DATE	2020/08/26	07:23:52
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SHEET DESCRIPTION

BACKSHELL



Partial W-W
SCALE 4:1

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
FA FC FP	DIMENSION UNITS		SCALE		CURRENT REV DESC:					molex							
	mm		4:1														
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	ANGULAR TOL ± 1.0°																
	4 PLACES		±			INITIAL REVISION: DRWN: APROFFITT 2015/11/04 APPR: KDEKOSKI 2016/06/14											
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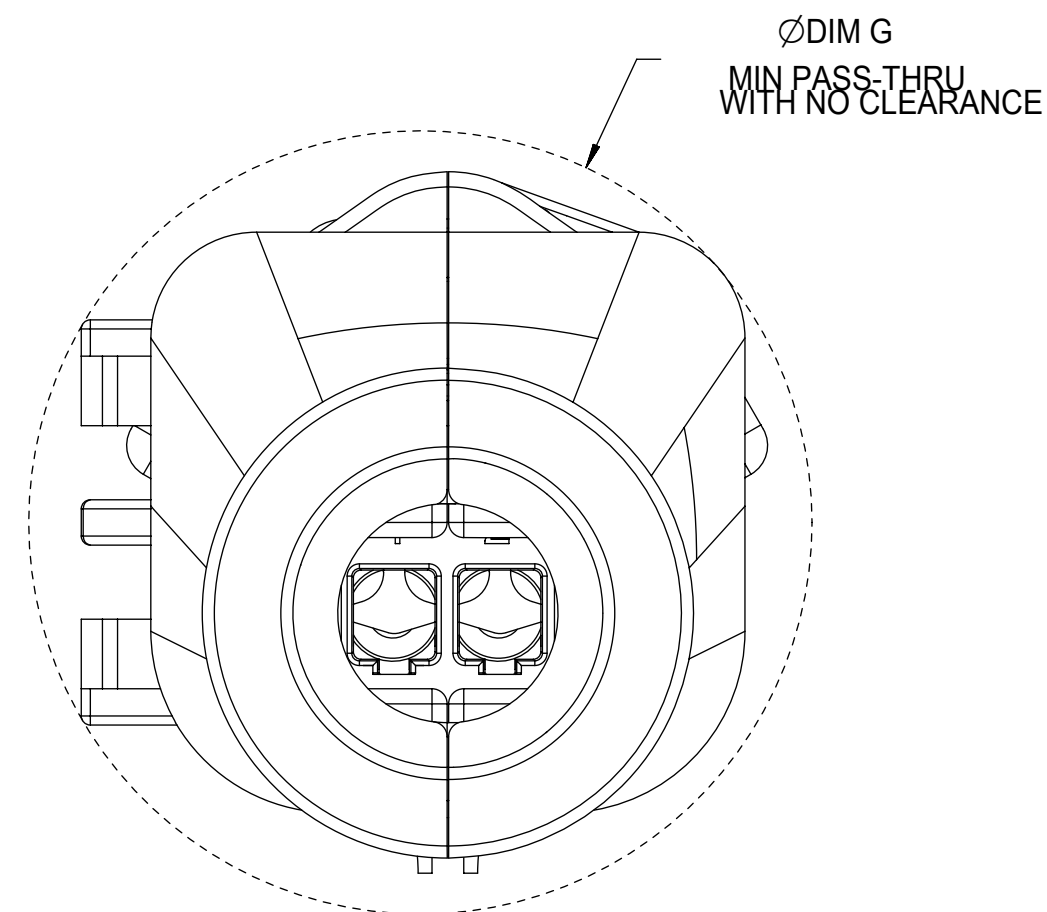
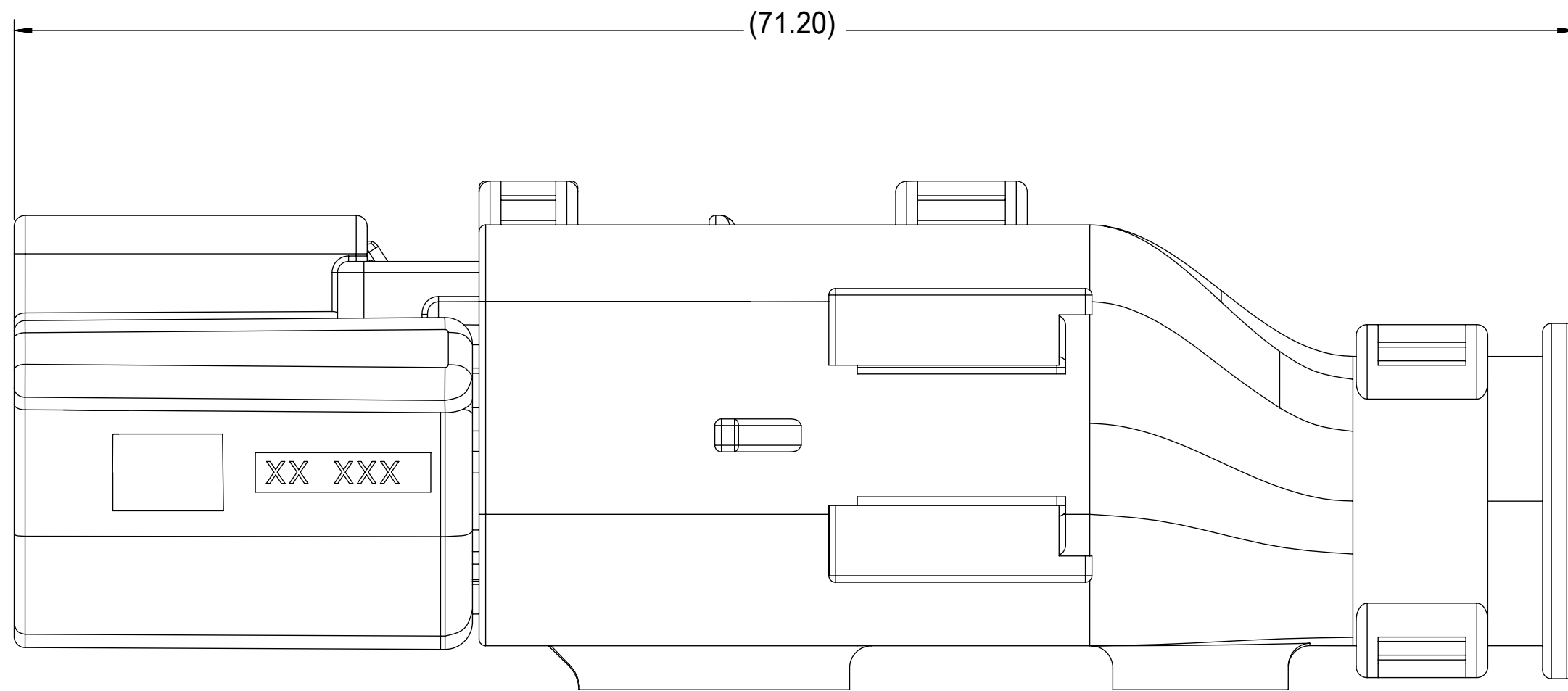
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BACKSHELL CONFIGURATIONS

CHARTED DIMENSIONS

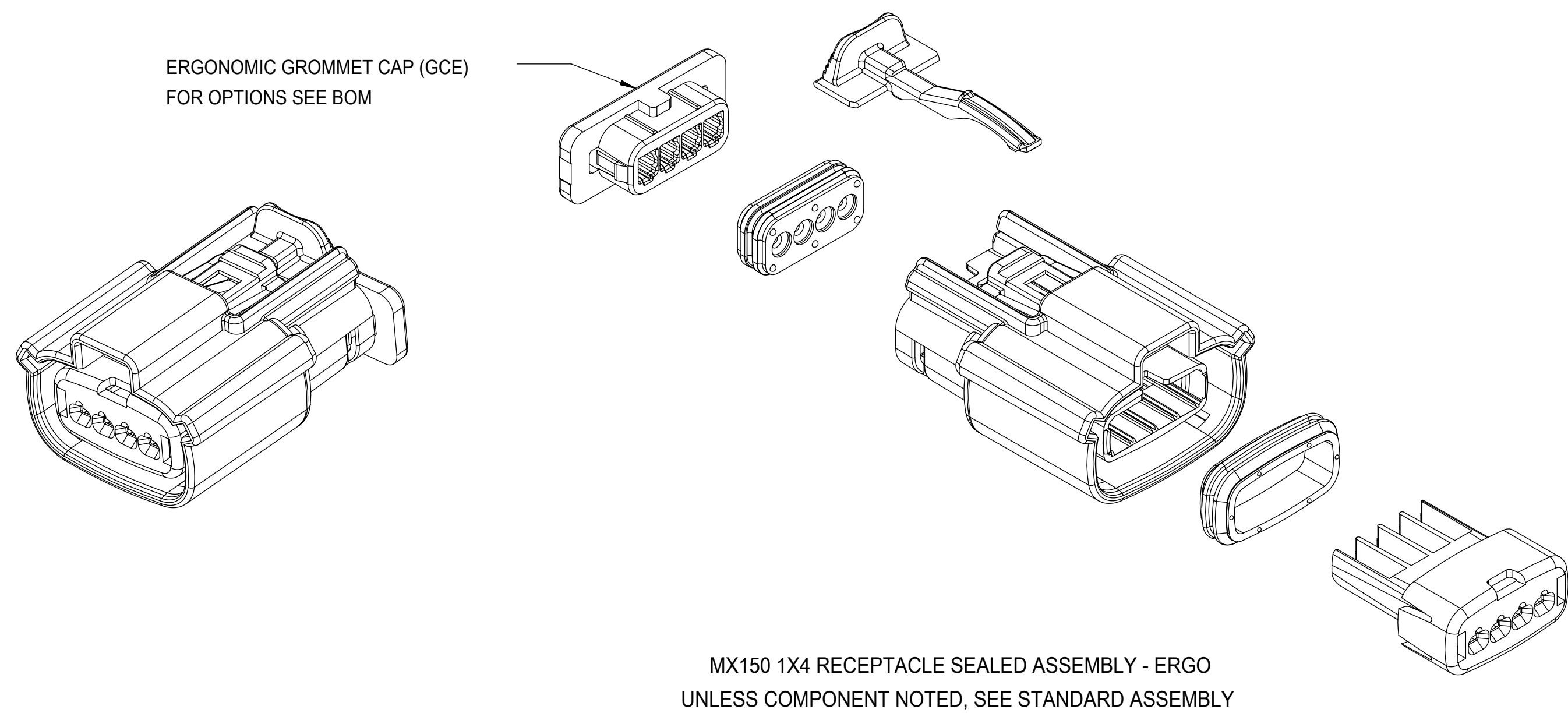
DESCRIPTION

DIMENSION



RECEPTACLE SEALED ASSEMBLY WITH RECEPTACLE BACKSHELL

FUNCTIONAL SYMBOLS A = 0 E = 0 B = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			CURRENT REV DESC:		molex				
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	mm		4:1							
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	ANGULAR TOL ± 1.0 °									
	4 PLACES ±									
	3 PLACES ±		CHK'D: JDENG022020/08/26		PRODUCT CUSTOMER DRAWING					
	2 PLACES ± 0.1									
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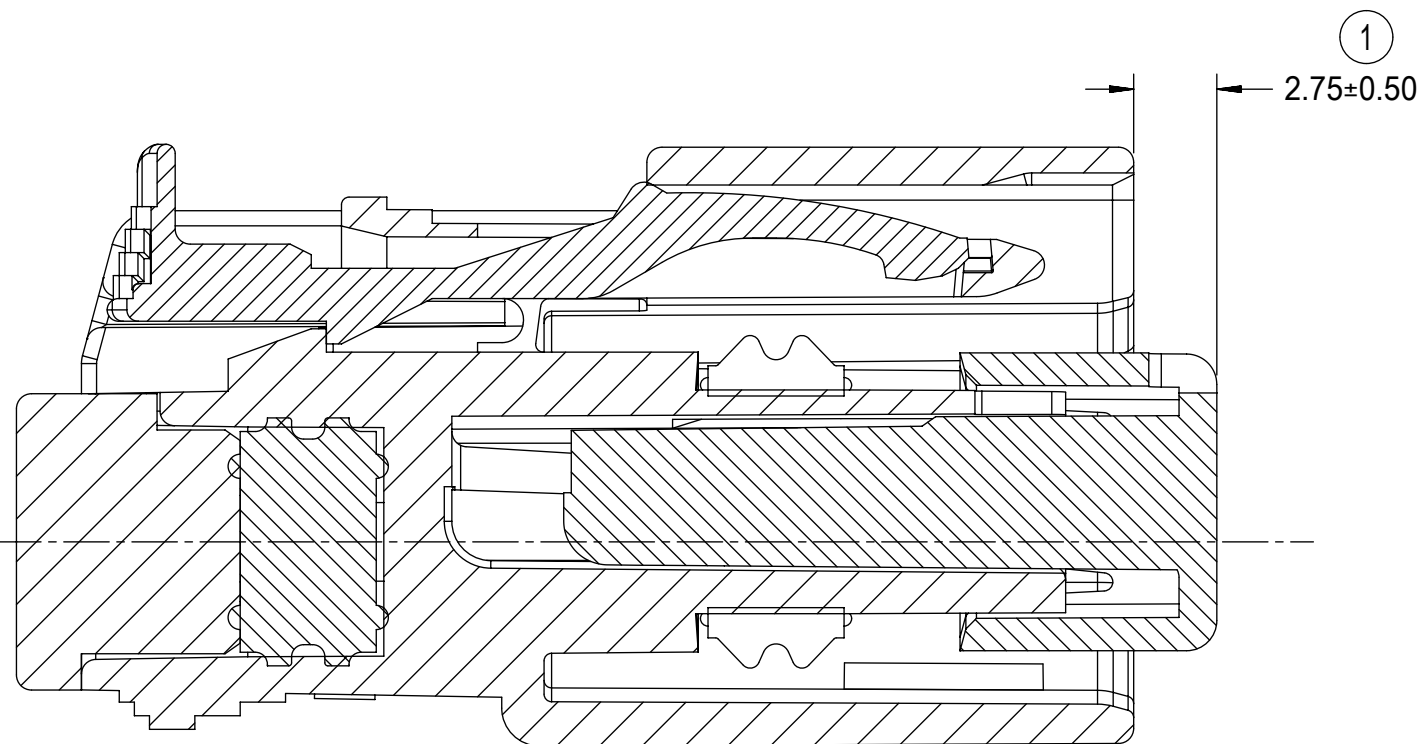
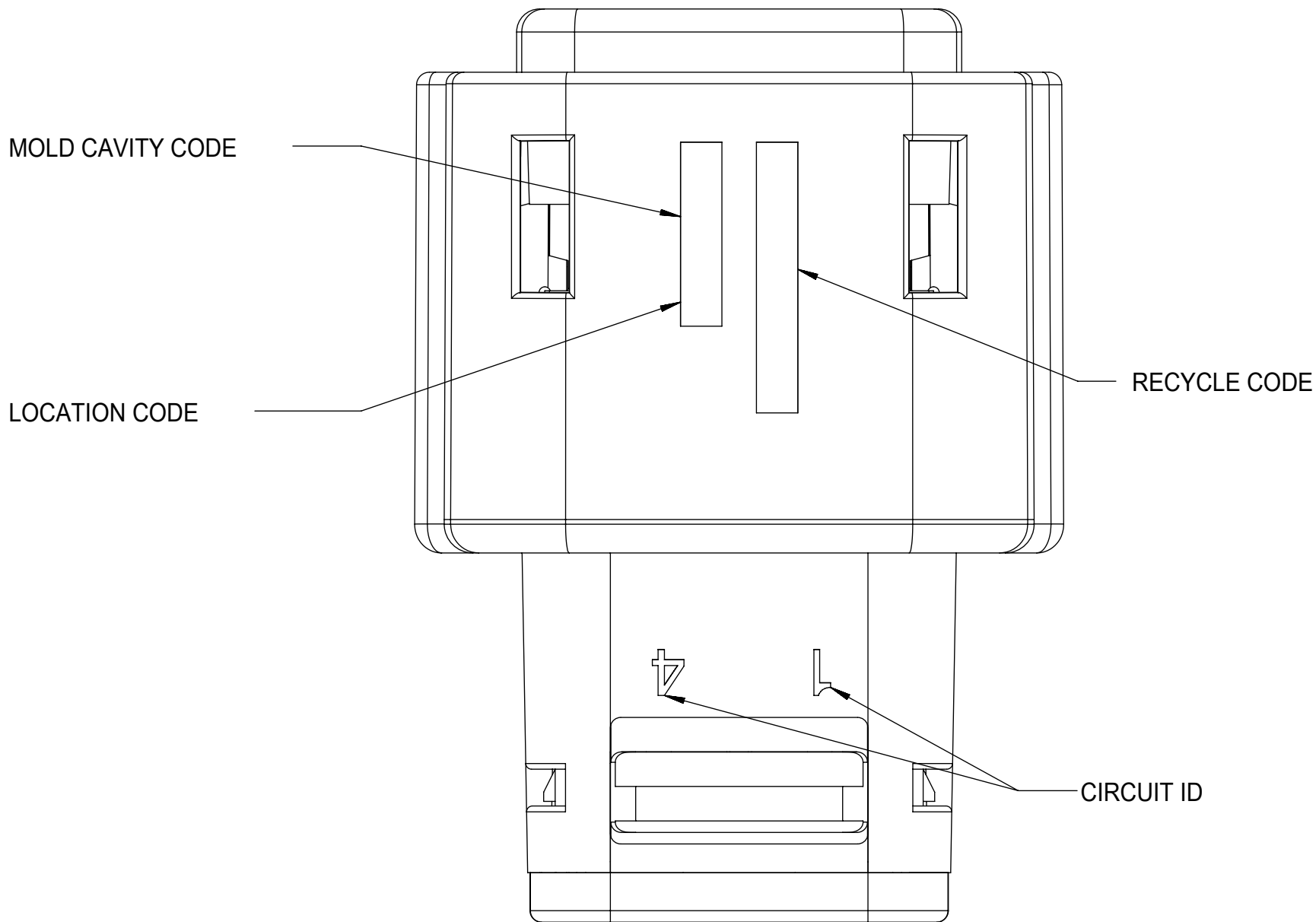
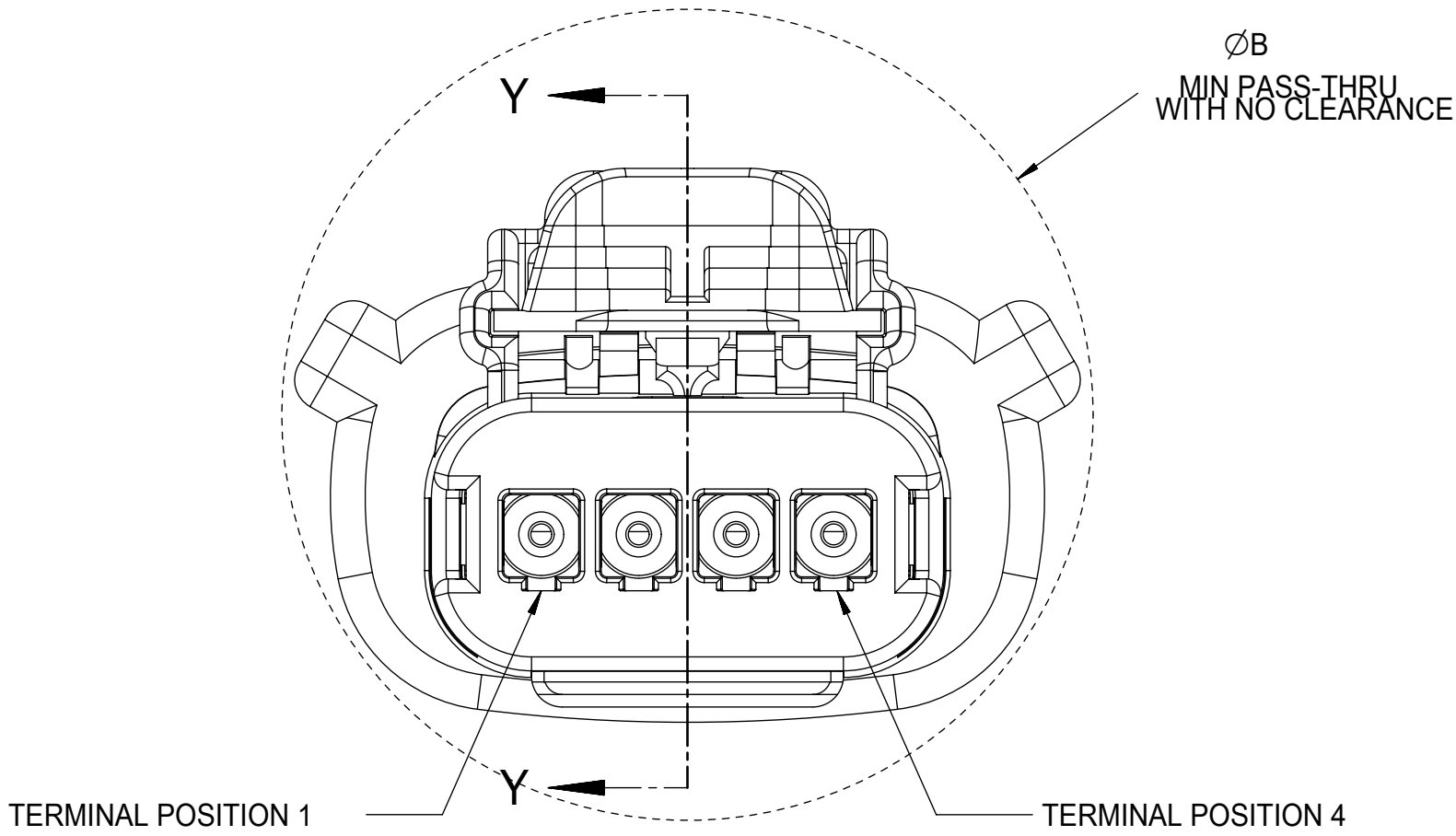
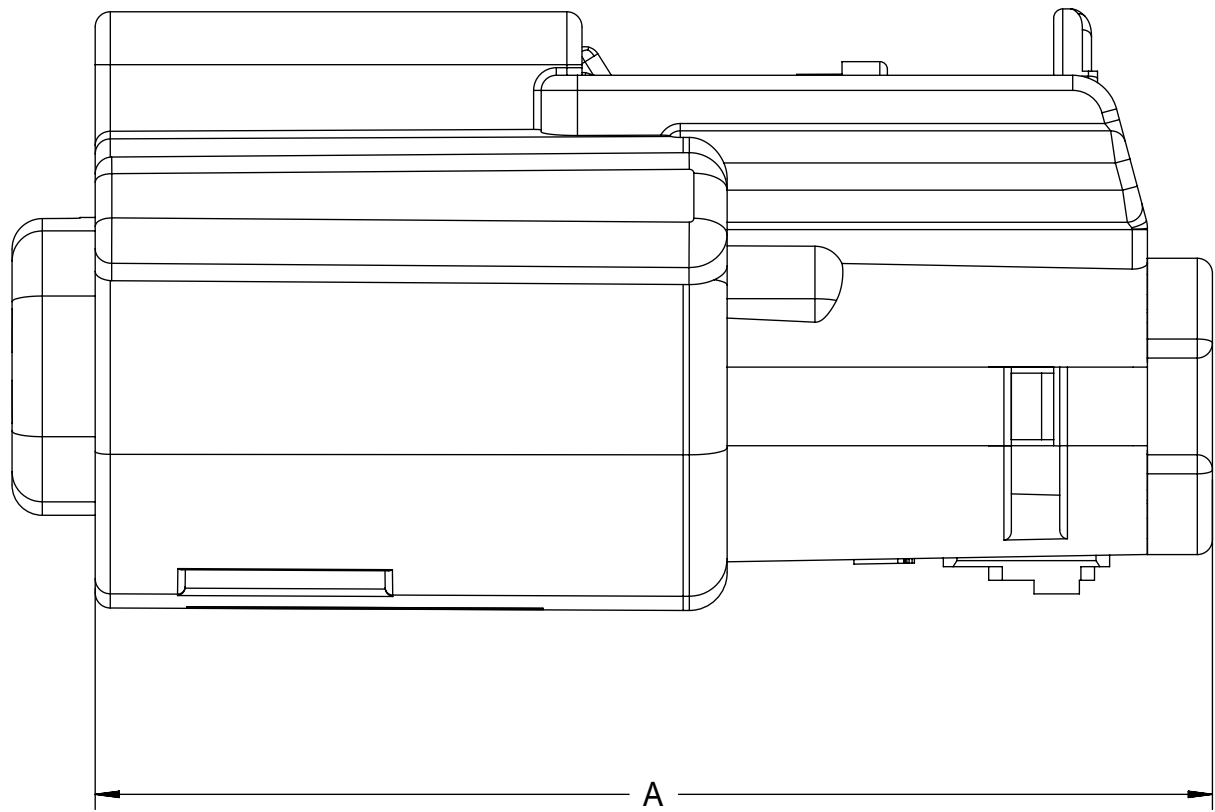
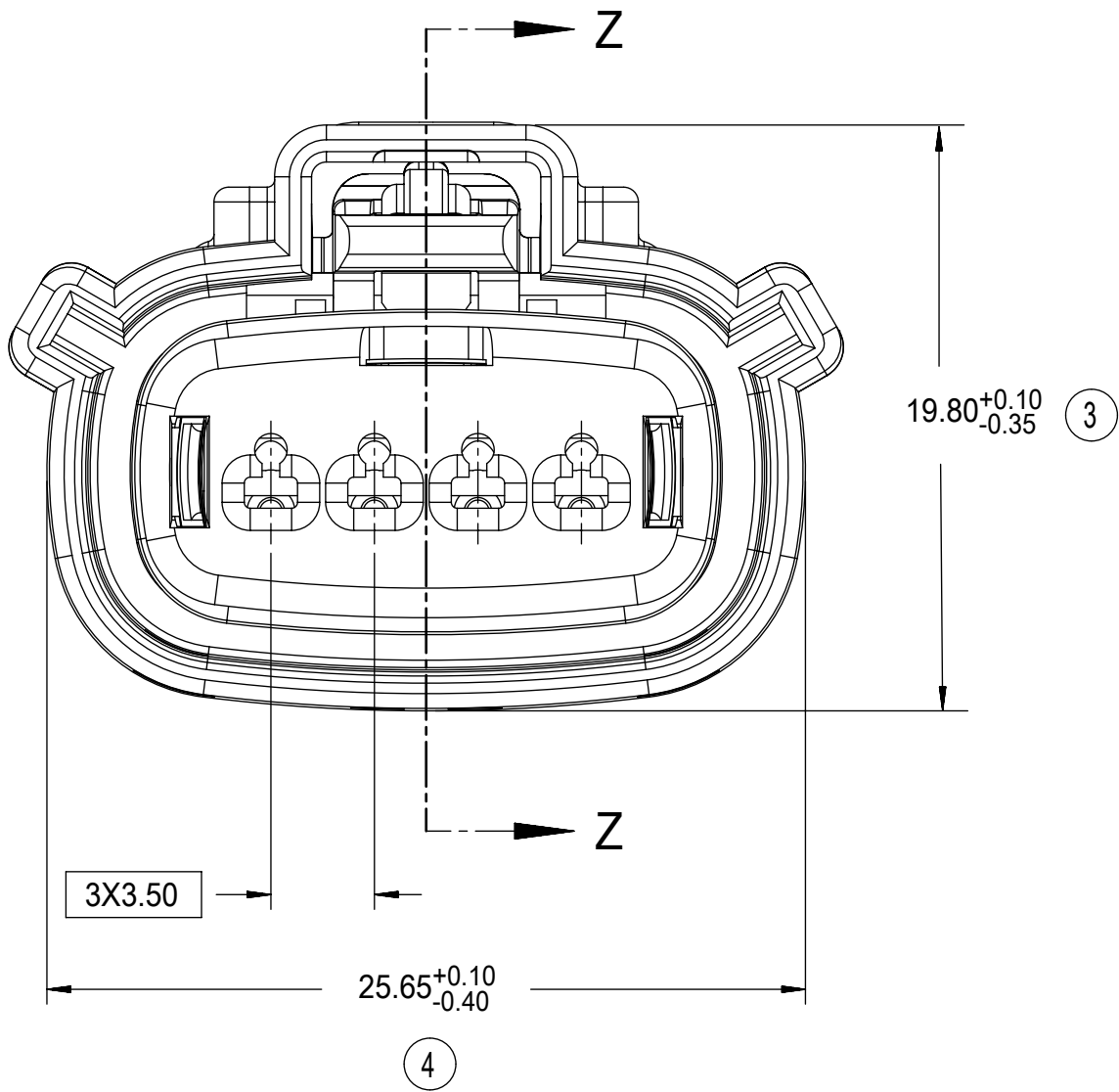
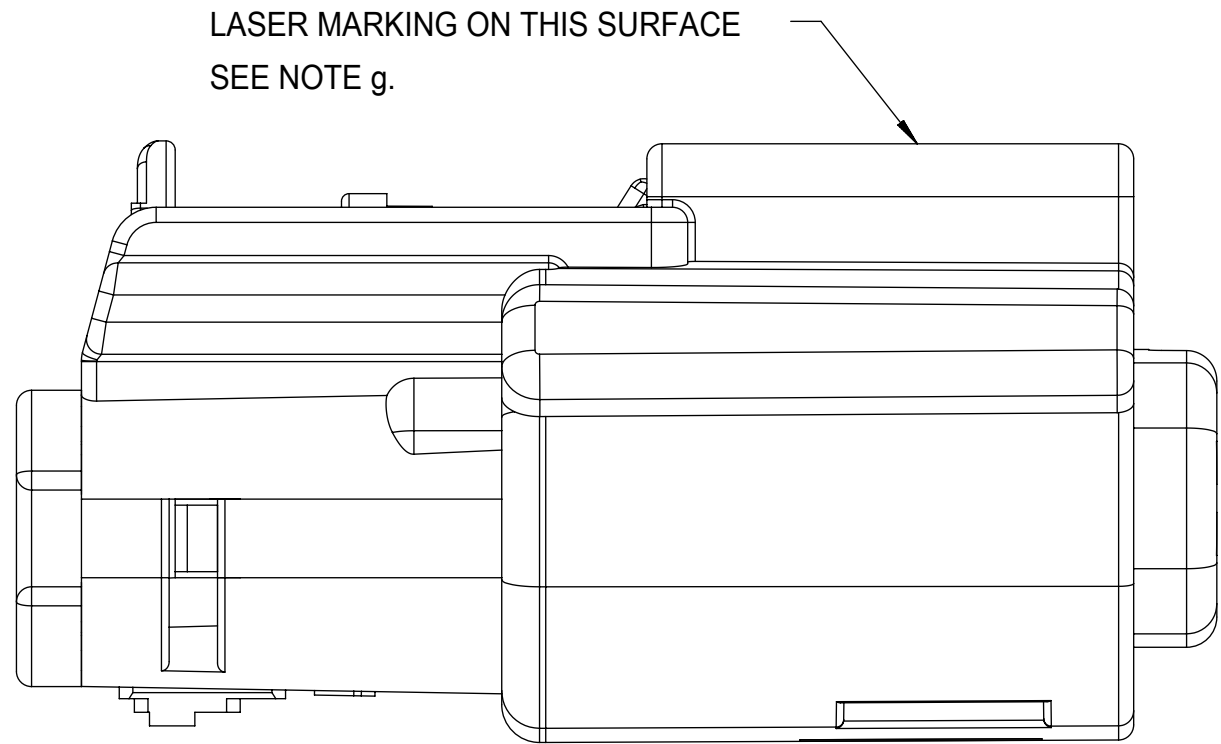


NOTES: VALID UNLESS OTHERWISE SPECIFIED

- GENERAL: AS-3471-100
- a. APPLICATION SPECIFICATION SEE: AS-3471-100
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
 - STANDARD (NON-SHRT) CONFIGURATIONS DESIGNED TO MATE WITH DEVICE CONNECTION AS SPECIFIED IN DRAWING SD-33481-041 AND EWCAP 150-S-004-1-Z03, AVAILABLE AT <http://ewcap.uscarteams.org/>
 - SHORTING BAR CONFIGURATIONS DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY SPECIFIED IN DRAWING SD-31280-200
 - FOR 1.5mm RECEPTACLE TERMINALS TO BE USED WITH THIS ASSEMBLY. SEE MOLEX DRAWING SD-33012-002.
 - SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
 - ASSEMBLY SHIPPED WITH PLR AND CPA IN PRE-LOCK POSITION (SEE SECTION Z-Z PRE-LOCK).
 - IN THE EVENT THAT THE PLR IS FOUND IN THE SEATED (FINAL LOCK) POSITION, REFER TO MOLEX SPECIFICATION PS-34646-001, AVAILABLE AT www.molex.com <<http://www.molex.com>>.
 - ASSEMBLY CONFORMS TO SAE/USCAR-2 REV 4 WITH THE FOLLOWING EXCEPTIONS:
 - ENGAGEMENT FORCE TO MOVE CPA FROM PRE-LOCK TO FINAL LOCK POSITION WHEN UNMATED: 40N MIN.
 - DISENGAGEMENT FORCE TO MOVE CPA FROM FINAL LOCK TO PRE-LOCK POSITION: 3N MIN, 40N MAX.
 - TERMINAL INSERTION FORCE FOR WIRE DIAMETER ABOVE 2.5mm AND NOT EXCEEDING 2.69mm SHALL NOT EXCEED 40 NEWTONS.
- b. PRODUCT SPECIFICATION SEE: PS-33471-000
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-903
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
2. DESIGN - MATERIALS:
- a. SEE BOM TABLE
3. DESIGN - GEOMETRY:
- a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
- 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: TBD

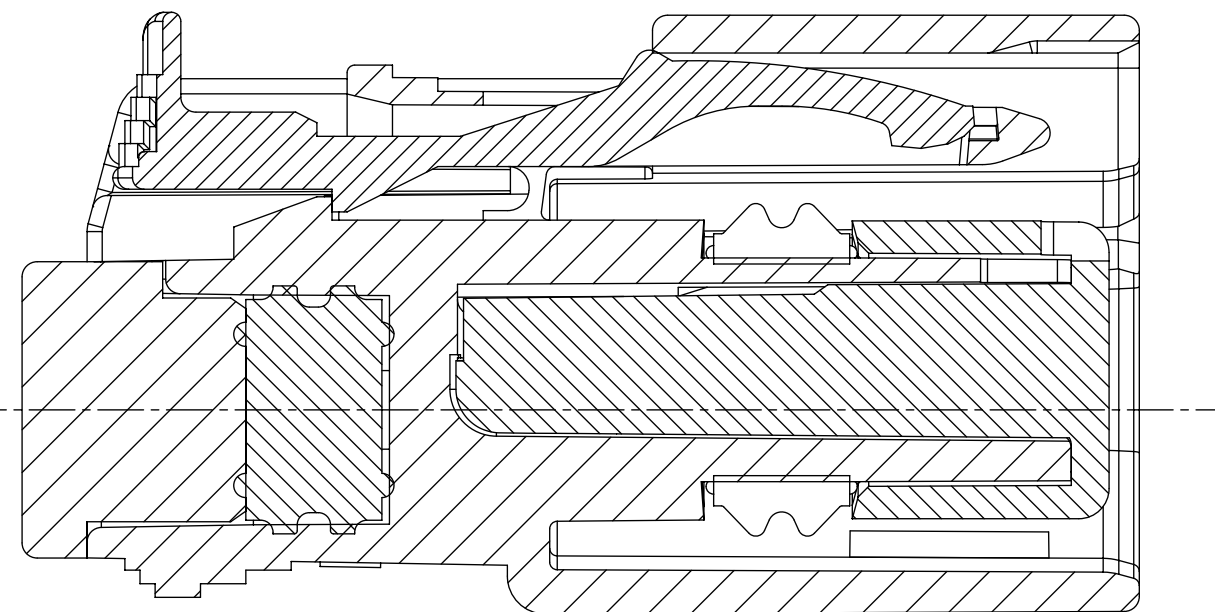
W6	ADD NEW P/N 33471-0497
W5	ADD NEW P/N 33471-0496
W4	ADD NEW P/N 33471-0495
W3	UPDATED THE DRAWING FRAME
W2	ADD NEW P/N 33471-0494
W1	ADD NEW P/N 33471-0493
W	REMOVE THE 33471-0489 CPA
REV	DESCRIPTION

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
A = 0 E = 0 P = 0 DIVISIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: SEE REVISION TABLE						
		mm		2:1		molex MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL						
		GENERAL TOLERANCES (UNLESS SPECIFIED)										
		ANGULAR TOL		± 3.0 °		EC NO: 674870						
4 PLACES		±		DRWN: SCV 2021/08/23								
3 PLACES		±		CHK'D: GGA 2021/08/27								
2 PLACES		± 0.1		APPR: GGA 2021/08/27								
1 PLACE		± 0.3		INITIAL REVISION:								
0 PLACES		±		DRWN: DGRIFITHS 2010/03/31								
				APPR: VKOSHY 2010/04/06								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
				D-SIZE		33471		SD-33471-041		PSD	002	W6
								MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
								SEE BOM		GENERAL MARKET		1 OF 6



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

SECTION Z-Z



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

SECTION Y-Y

CHARTED DIMENSIONS

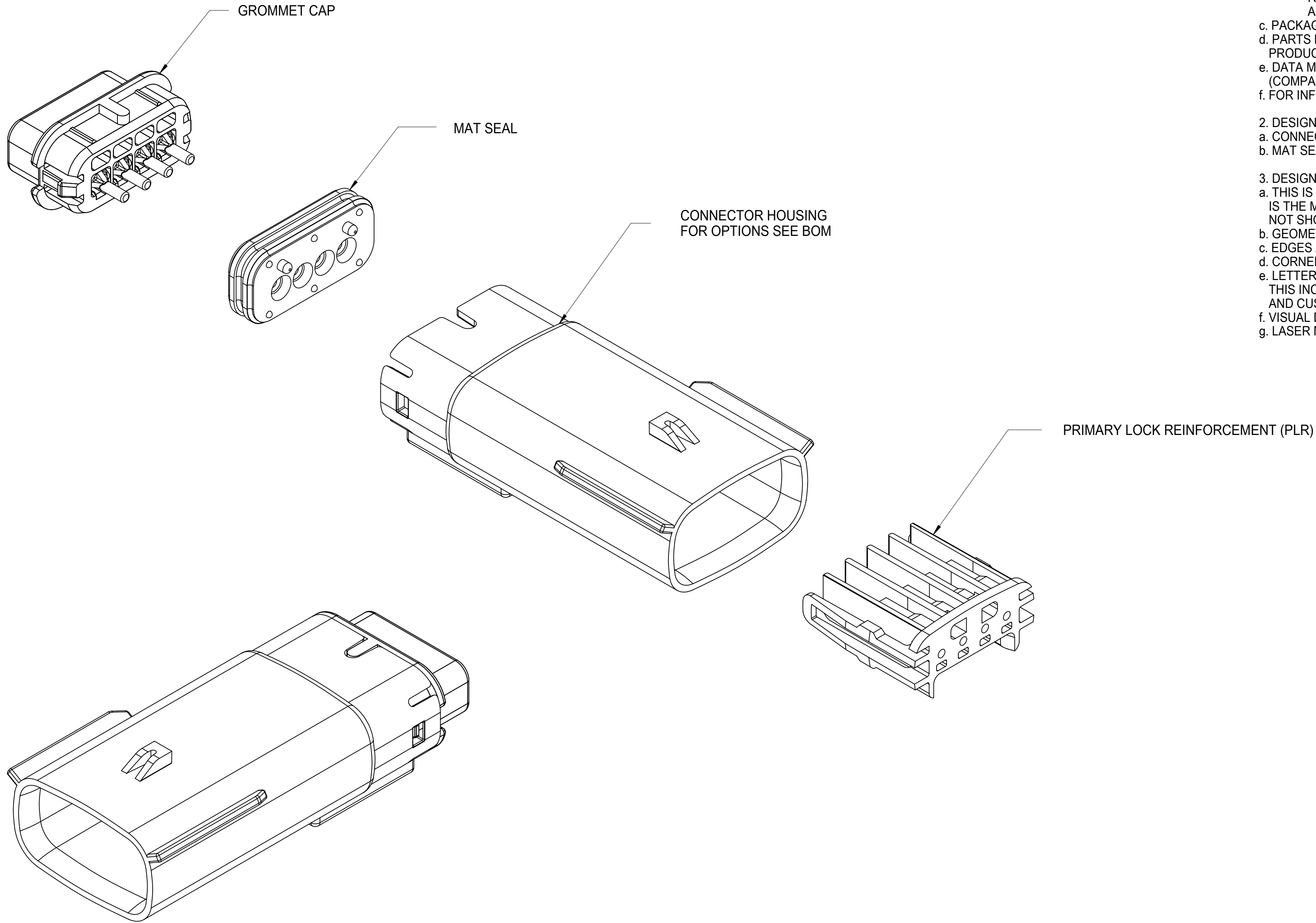
CONFIGURATION	A	B
MX150 1X4 RECPT SEALED ASSY - STANDARD	36.95 ±0.70	29.14
MX150 1X4 RECPT SEALED ASSY - ERGO	36.95 ±0.90	29.33
MX150 1X4 RECPT SEALED ASSY - SHORTING (SHRT) BAR	36.95 ±0.70	29.14

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: SEE REVISION TABLE				molex								
	mm		4:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)								MX150 1X4 RECEPTACLE SEALED ASSEMBLY MAT SEAL								
DIVISIONAL SYMBOLS	ANGULAR TOL ± 3.0°				EC NO: 674870 DRWN: SCV 2021/08/23 CHK'D: GGA 2021/08/27 APPR: GGA 2021/08/27				PRODUCT CUSTOMER DRAWING								
	4 PLACES		±						INITIAL REVISION: DRWN: DGRIFITHS 2010/03/31 APPR: VKOSHY 2010/04/06				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
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	2 PLACES		± 0.1														
	1 PLACE		± 0.3														
0 PLACES		±		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER									
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	SEE BOM		GENERAL MARKET		3 OF 6				

DOCUMENT STATUS	P1	RELEASE DATE	2021/08/27 04:44:52
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[illegible]

TABLE OF CONTENTS	
SHEET NO.	SHEET DESCRIPTION
1	NOTES
2	KEY CONFIGURATIONS
3	BLADE SEALED ASSEMBLY
4	SYSTEM PACKAGING
5	BOM



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 RECEPTACLE SEALED ASSEMBLY SPECIFIED IN MOLEX DRAWING SD-33471-041.
-FOR 1.5mm BLADE TERMINALS TO BE USED WITH THIS ASSEMBLY SEE MOLEX DRAWING SD-33000-001.
- SYSTEM TO BE USED WITH WIRE WITHIN DIAMETER RANGE OF 1.2mm TO 2.69mm.
-ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION
-IN THE EVENT THAT THE PLR IS FOUND IN THE SEATED (FINAL LOCK) POSITION, REFER TO MOLEX SPECIFICATION PS-34646-001, AVAILABLE AT www.molex.com <<http://www.molex.com>>
-ASSEMBLY CONFORMS TO SAE/USCAR-2 REV.4 WITH THE FOLLOWING EXCEPTIONS: TERMINAL INSERTION FORCE FOR WIRE DIAMETER ABOVE 2.5mm NOT EXCEEDING 2.69mm SHALL NOT EXCEED 45 NEWTONS.
- b. PRODUCT SPECIFICATION SEE: PS-33471-000
CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, RATINGS (CURRENT, TEMPERATURE, SEALING, AND FLAMMABILITY), AND PRODUCT VALIDATION.
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-31300-635
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: ES-40000-5016
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
- f. FOR INFORMATION ON 1X4 BLADE SEALED ASSEMBLY WITH SHORTING BAR SEE SD-31280-200.

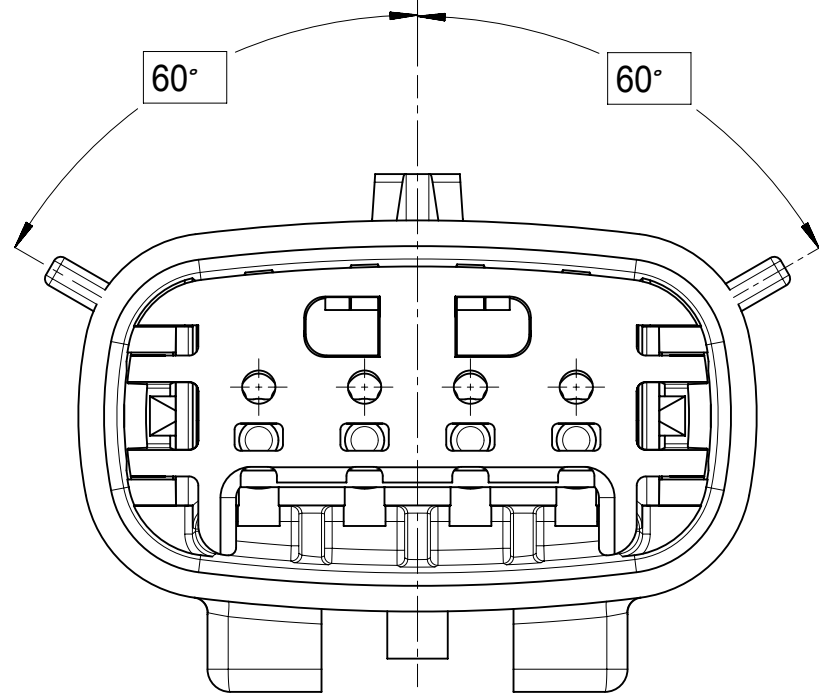
2. DESIGN - MATERIALS:
- a. CONNECTOR HOUSING, GROMMET CAP, PLR: SPS/NYLON BLEND 20% GLASS FILLED
- b. MAT SEAL: INHERENTLY LUBRICATED SILICONE

3. DESIGN - GEOMETRY:
- a. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
- 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: TBD

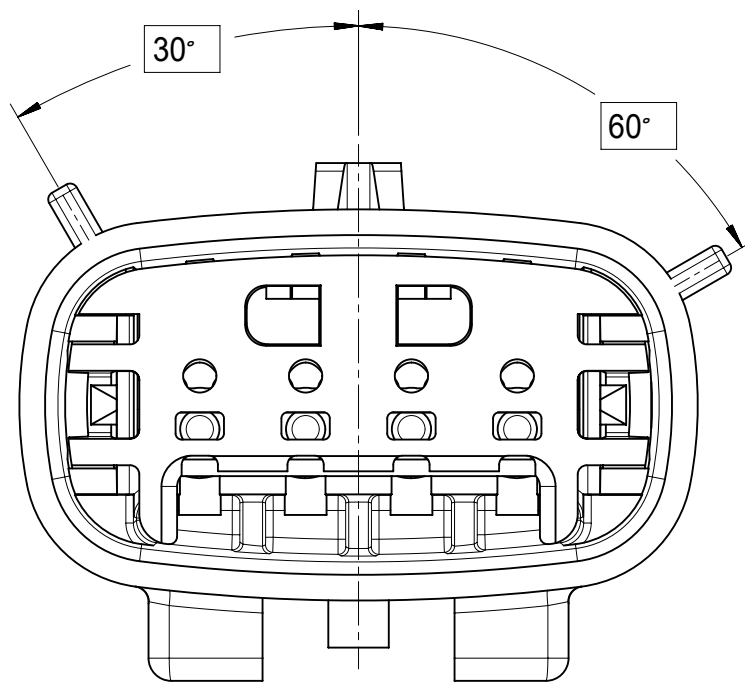
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE	CURRENT REV DESC: UPDATED PARTS STATUS				molex		
mm		3:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 645317 DRWN: MKP 2020/08/07 CHK'D: MJMITCHELL 2020/09/21 APPR: MJMITCHELL 2020/09/21 INITIAL REVISION: DRWN: DGRIFFITHS 2005/08/26 APPR: smarceau 2005/08/29				MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL		
ANGULAR TOL	±	3.0 °					PRODUCT CUSTOMER DRAWING		
4 PLACES	±						DOCUMENT NUMBER		
3 PLACES	±						SD-33481-041		DOC TYPE
2 PLACES	±	0.1					PSD	DOC PART	REVISION
1 PLACE	±	0.3					001	W3	
0 PLACES	±								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
			D-SIZE	33481			GENERAL MARKET		1 OF 5

DOCUMENT STATUS	P1	RELEASE DATE	2020/09/21	14:03:58
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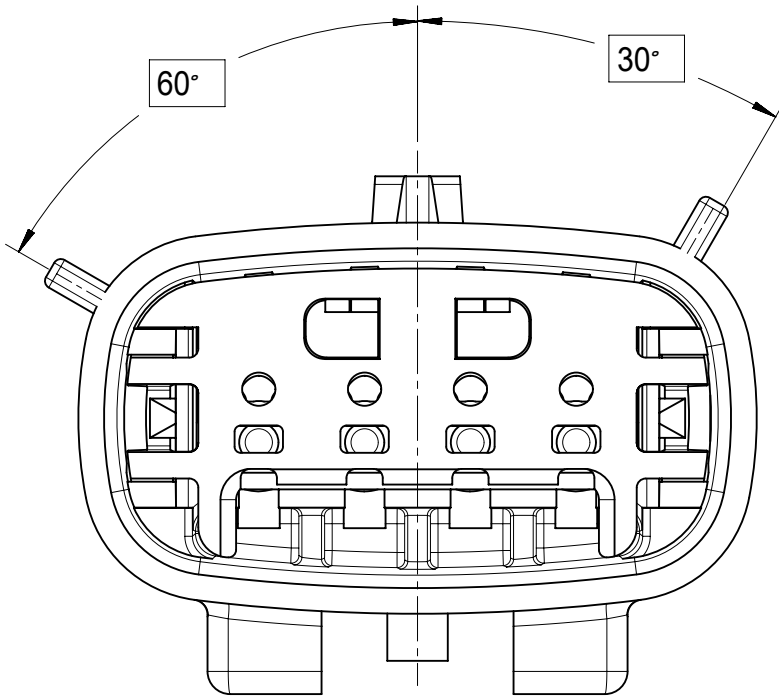
KEY CONFIGURATIONS



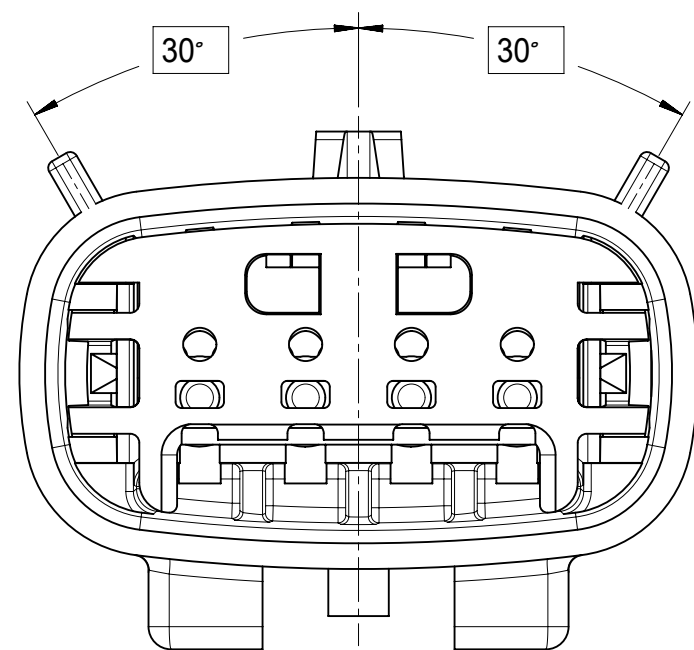
KEY A



KEY B

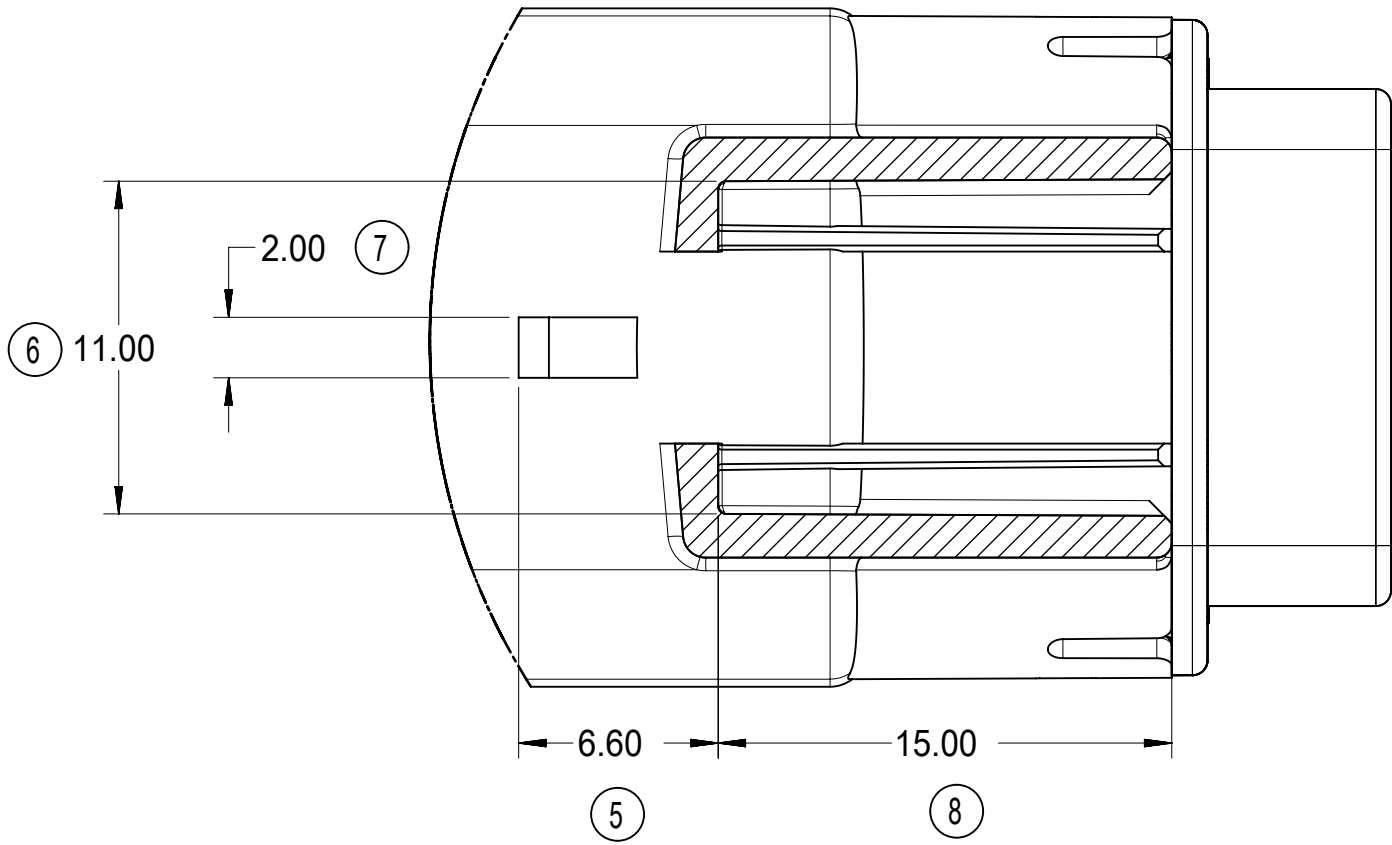
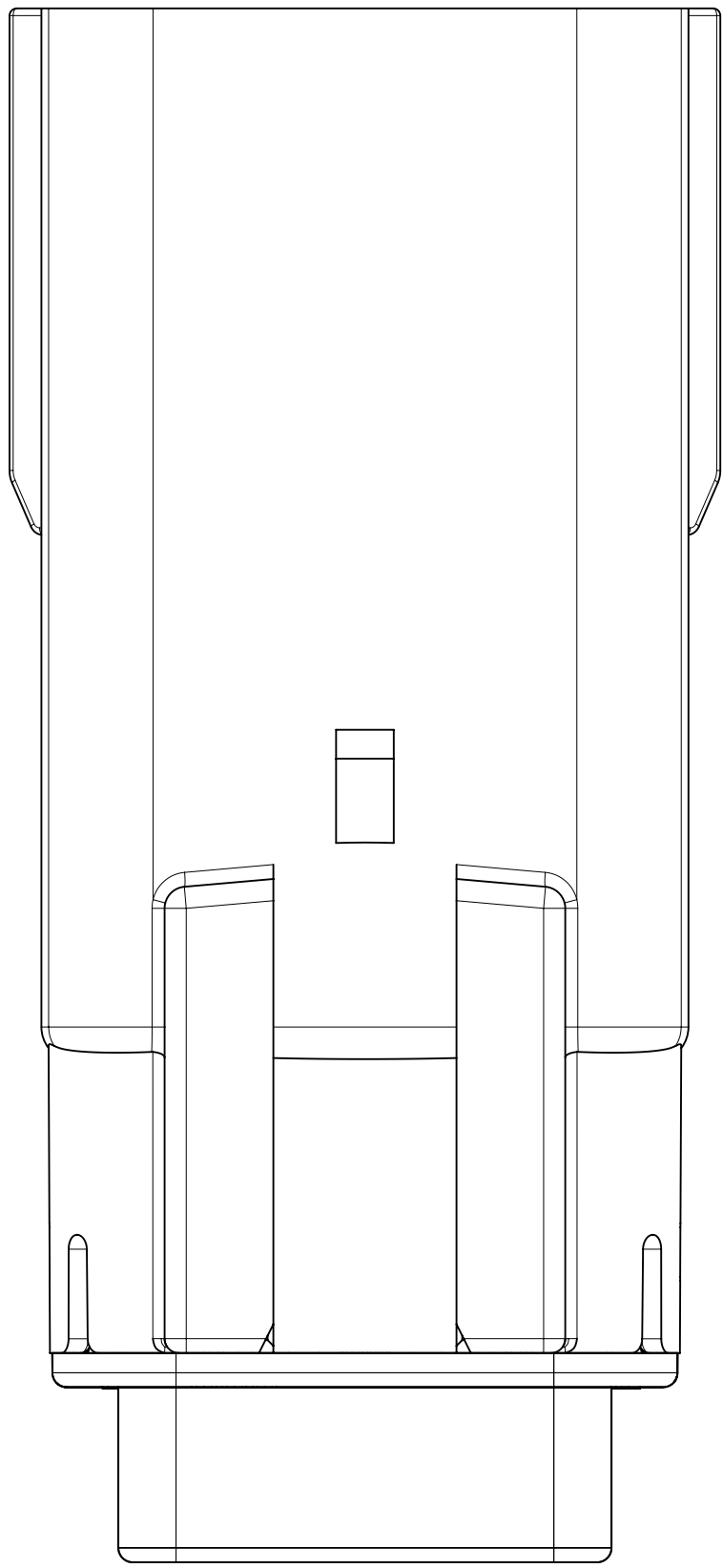
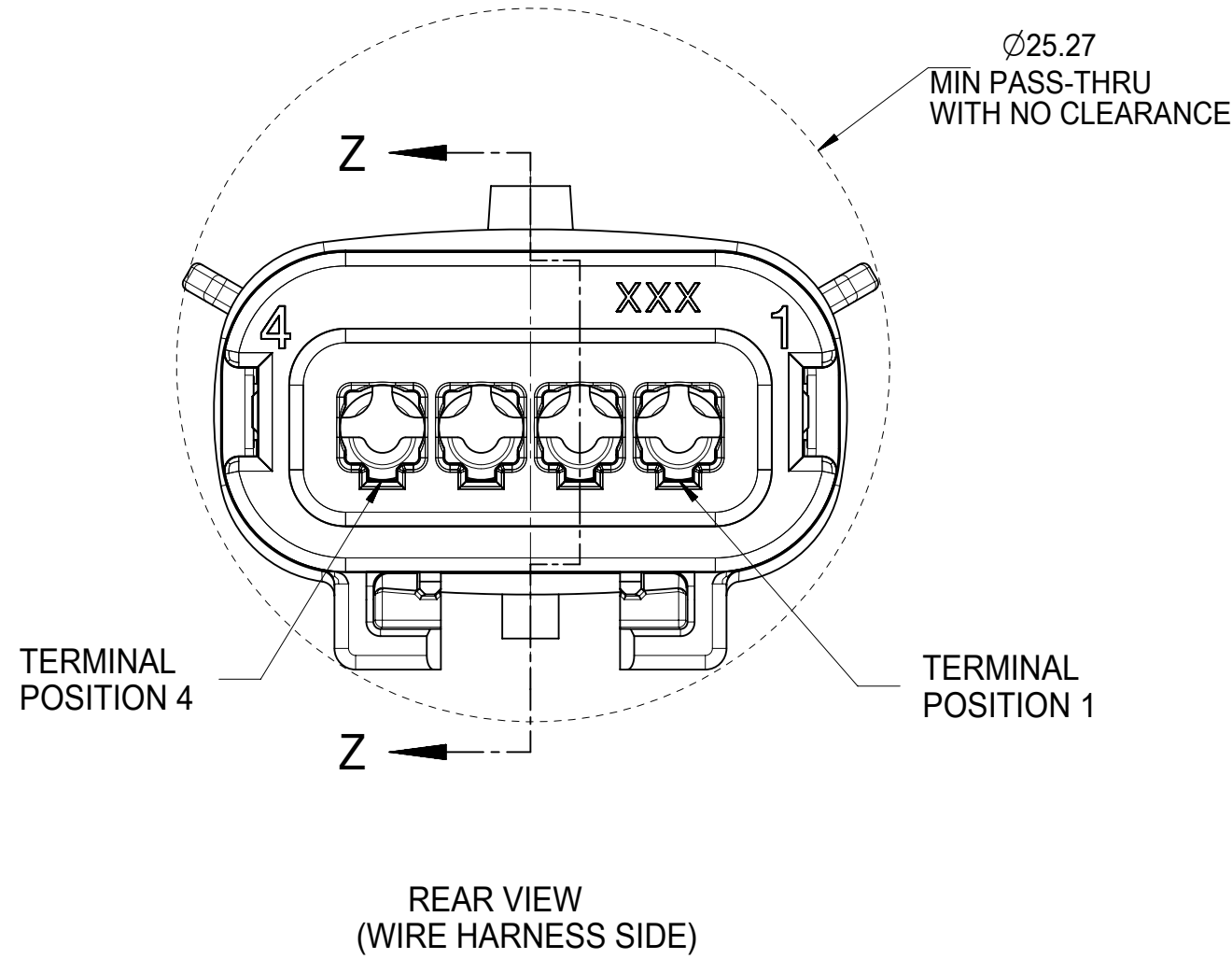
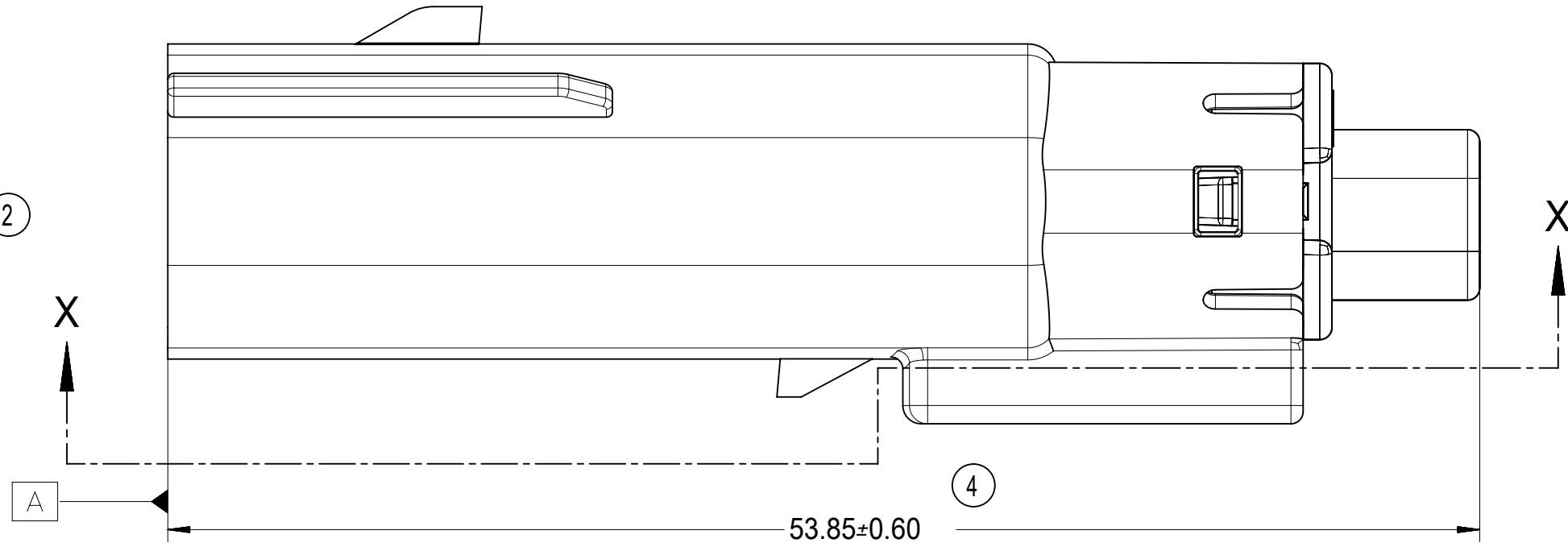
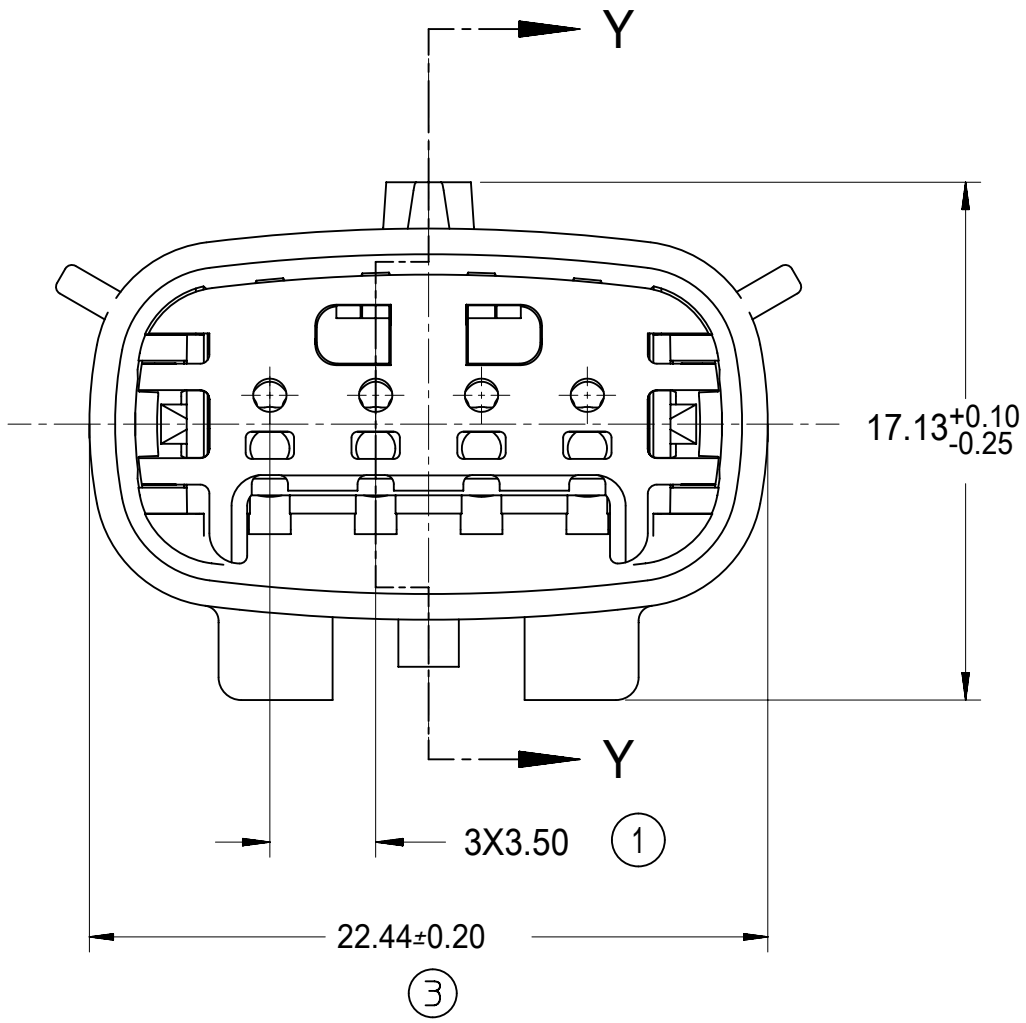
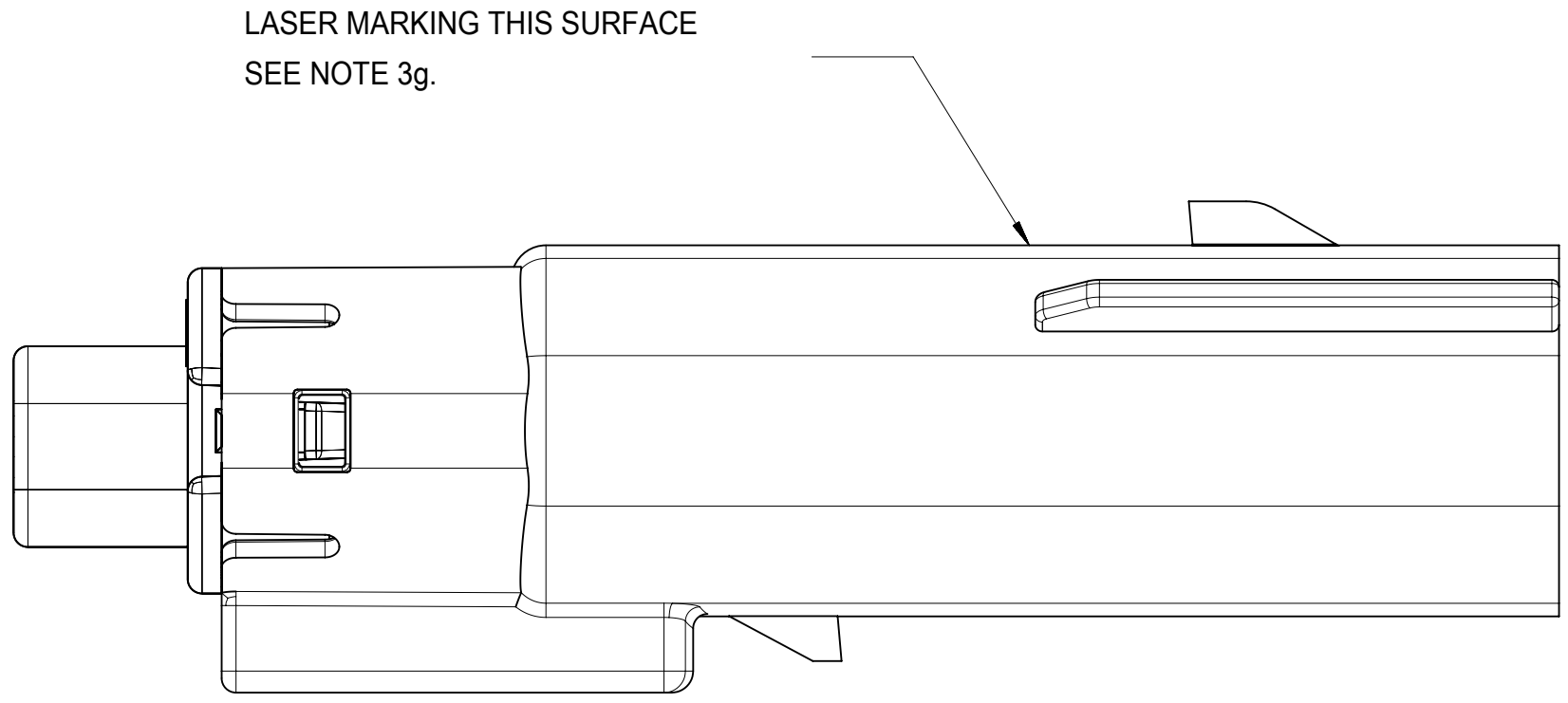


KEY C

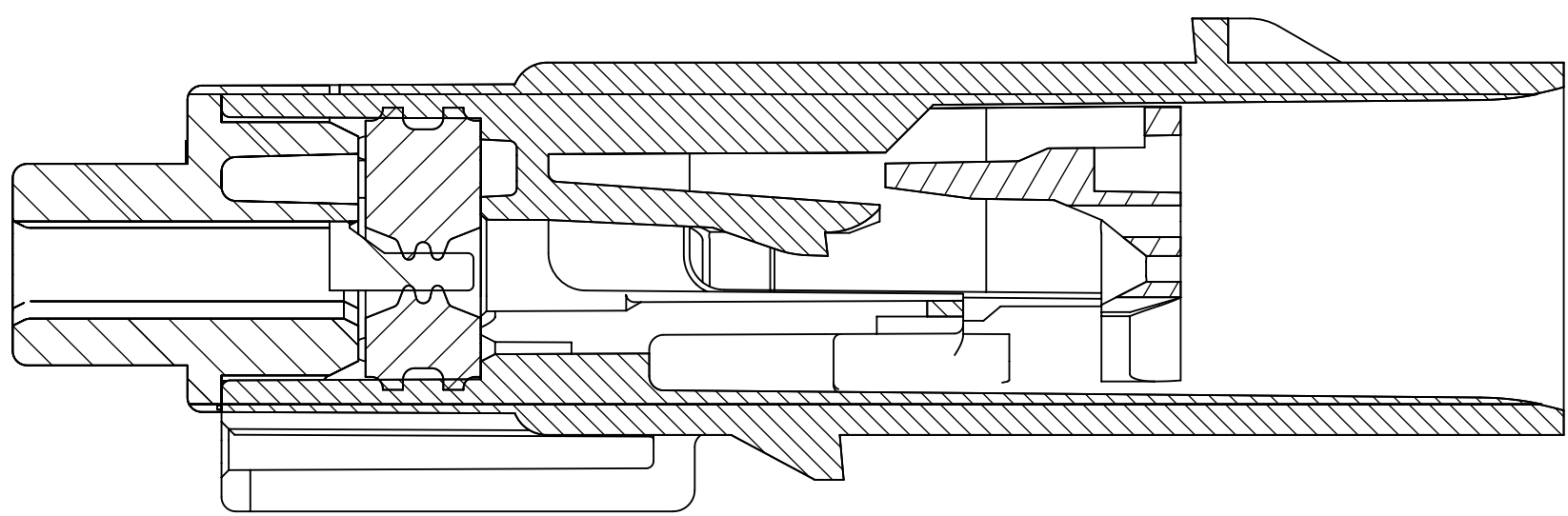


KEY D

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)								PRODUCT CUSTOMER DRAWING							
ANGULAR TOL ± 3.0 °															
4 PLACES		±						DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
3 PLACES		±						SD-33481-041		PSD		001		W3	
2 PLACES		± 0.1													
1 PLACE		± 0.3		MATERIAL NUMBER		CUSTOMER				SHEET NUMBER					
0 PLACES		±		DRAWING		SERIES									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 		D-SIZE		33481		GENERAL MARKET					
												2 OF 5			

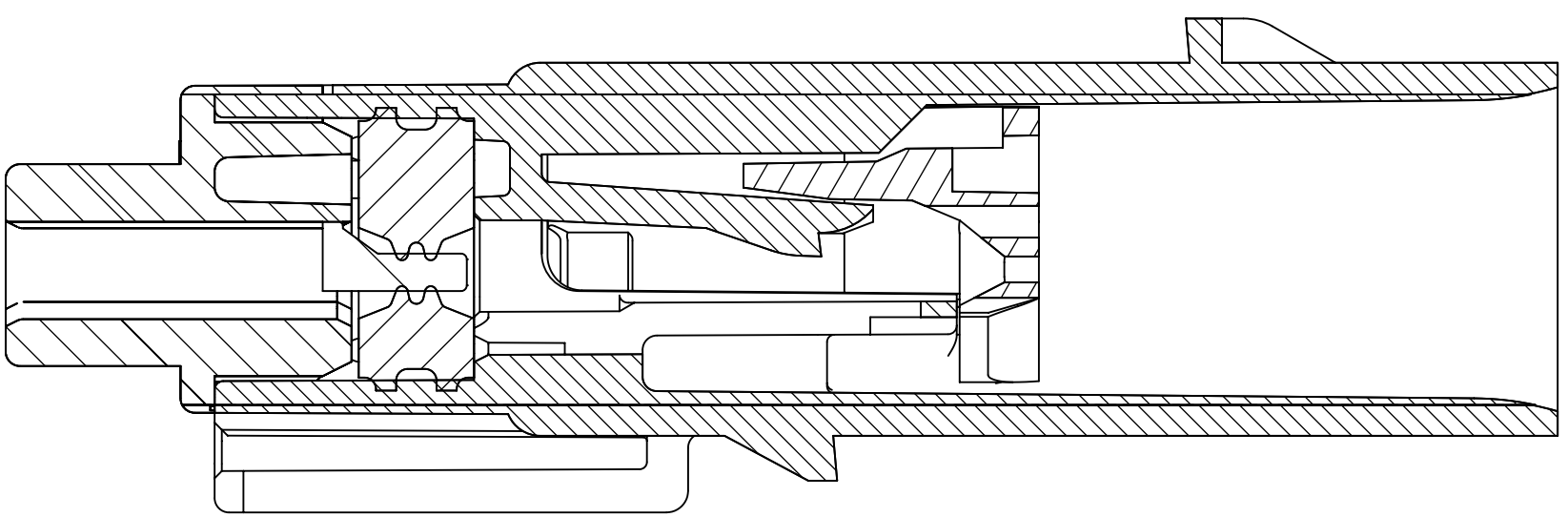


PARTIAL X-X
SCALE 4:1



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

SECTION Z-Z



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

SECTION Y-Y

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: UPDATED PARTS STATUS				molex		
mm		4:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 645317 DRWN: MKP 2020/08/07 CHK'D: MJMITCHELL 2020/09/21 APPR: MJMITCHELL 2020/09/21				MX150 1X4 BLADE SEALED ASSEMBLY MAT SEAL		
ANGULAR TOL ± 3.0 °									
4 PLACES		±							
3 PLACES		±	INITIAL REVISION: DRWN: DGRIFFITHS 2005/08/26 APPR: smarceau 2005/08/29				PRODUCT CUSTOMER DRAWING DOCUMENT NUMBERSD-33481-041DOC TYPEPSDDOC PART001REVISIONW3		
2 PLACES		± 0.1							
1 PLACE		± 0.3							
0 PLACES		±	THIRD ANGLE PROJECTION 				SHEET NUMBER 3 OF 5		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
DRAWING		D-SIZE	SERIES	33481	MATERIAL NUMBER		CUSTOMER GENERAL MARKET		

